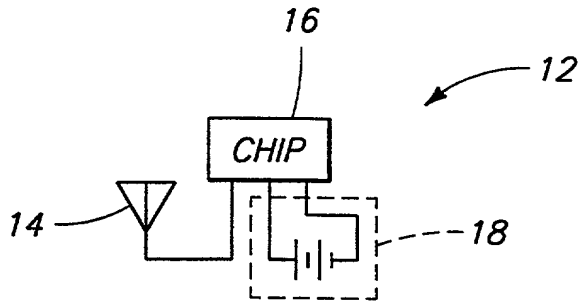


Fig 1

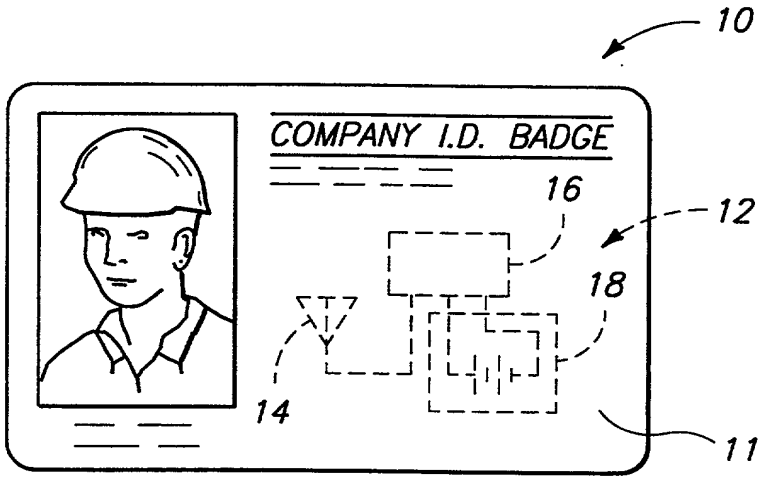


Fig 2

PCT/GB2004/004690 14.10.05

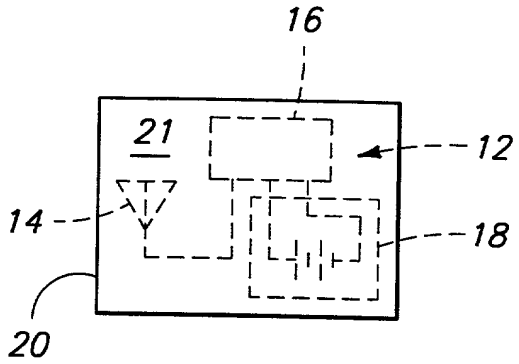

16
21
12
14
18
20

Fig 3

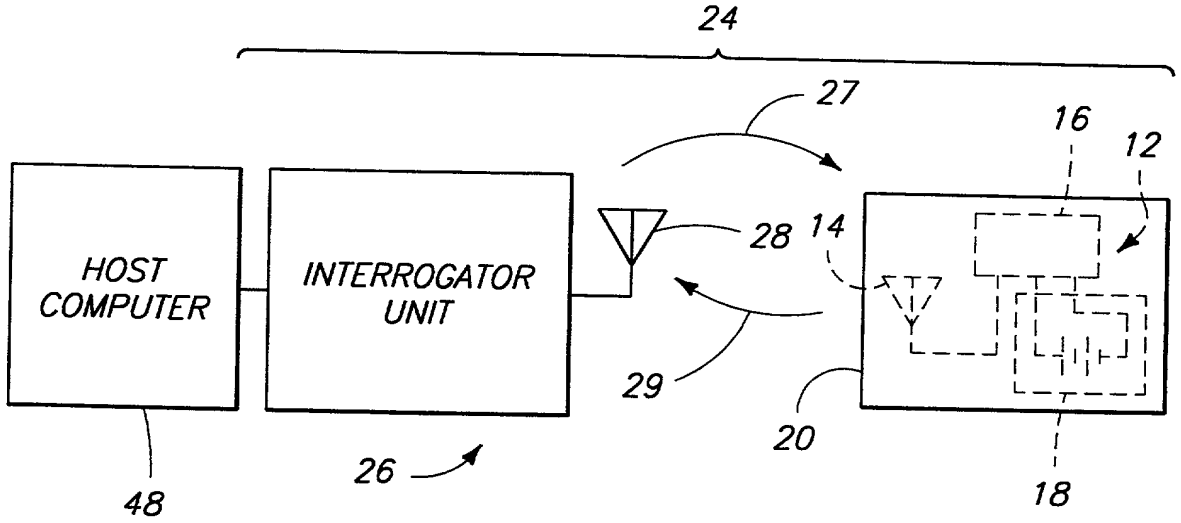

24
27
16
12
28
14
HOST COMPUTER
INTERROGATOR UNIT
29
20
26
48
18

Fig 4

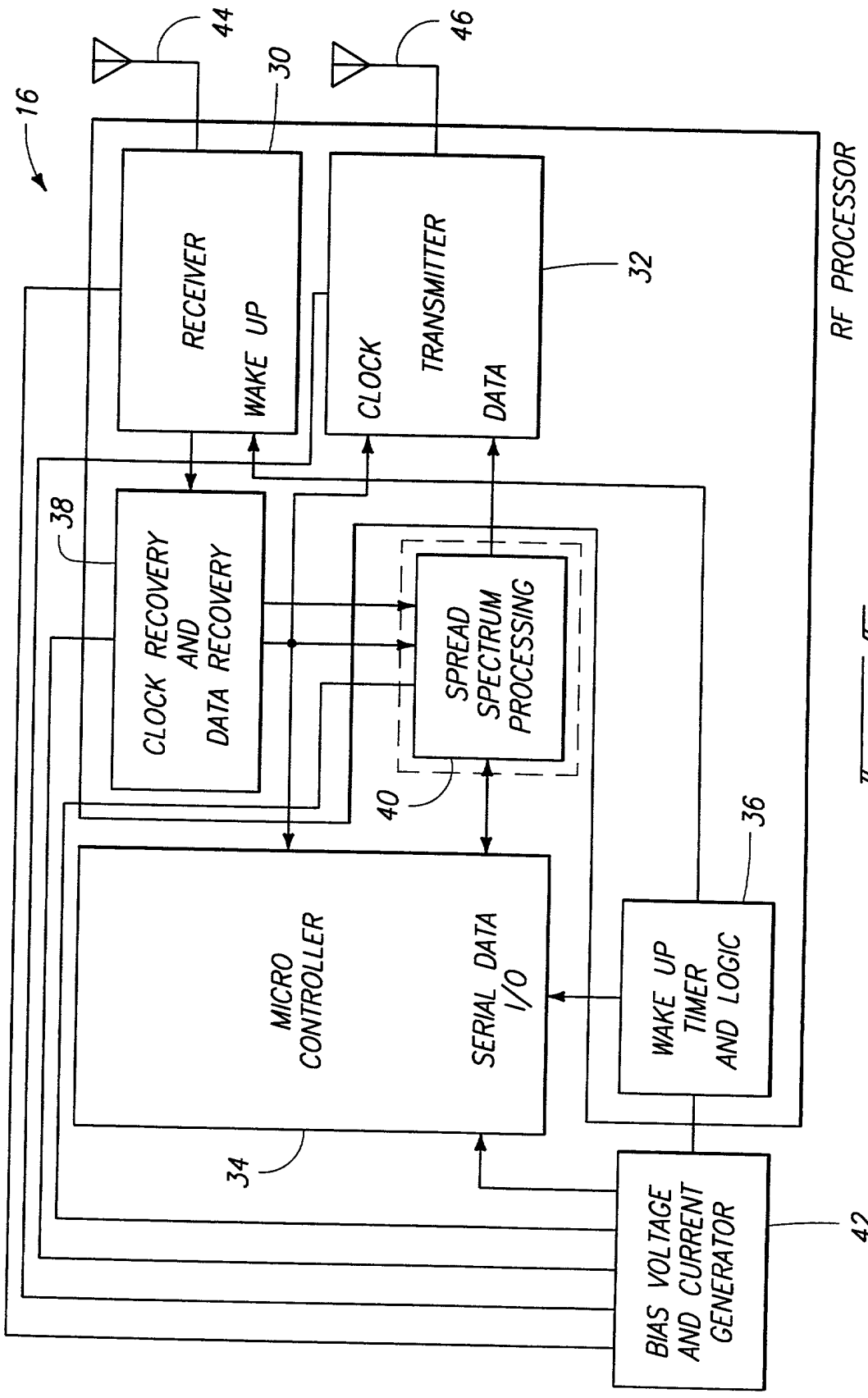

16
44
46
30
RECEIVER
WAKE UP
CLOCK
TRANSMITTER
DATA
32
RF PROCESSOR
38
CLOCK RECOVERY AND DATA RECOVERY
SPREAD SPECTRUM PROCESSING
40
MICRO CONTROLLER
SERIAL DATA I/O
34
WAKE UP TIMER AND LOGIC
36
BIAS VOLTAGE AND CURRENT GENERATOR
42

FIG 5

6AA	6AB	6AC	6AD	6AE	6AF	6AG	6AH	6AI	6AJ	6AK
6BA	6BB	6BC	6BD	6BE	6BF	6BG	6BH	6BI	6BJ	6BK
6CA	6CB	6CC	6CD	6CE	6CF	6CG	6CH	6CI	6CJ	6CK
6DA	6DB	6DC	6DD	6DE	6DF	6DG	6DH	6DI	6DJ	6DK
6EA	6EB	6EC	6ED	6EE	6EF	6EG	6EH	6EI	6EJ	6EK

Fig 6

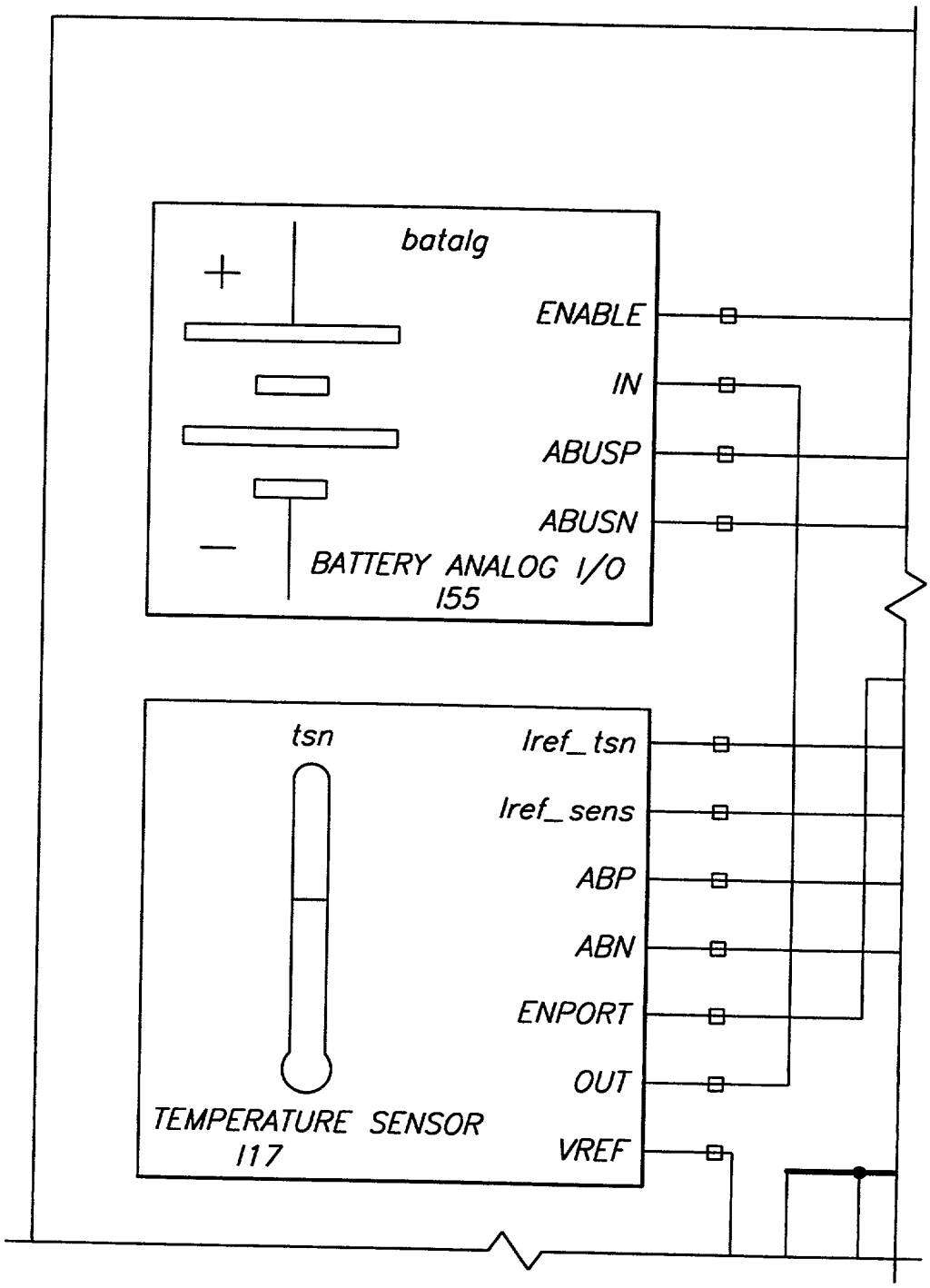
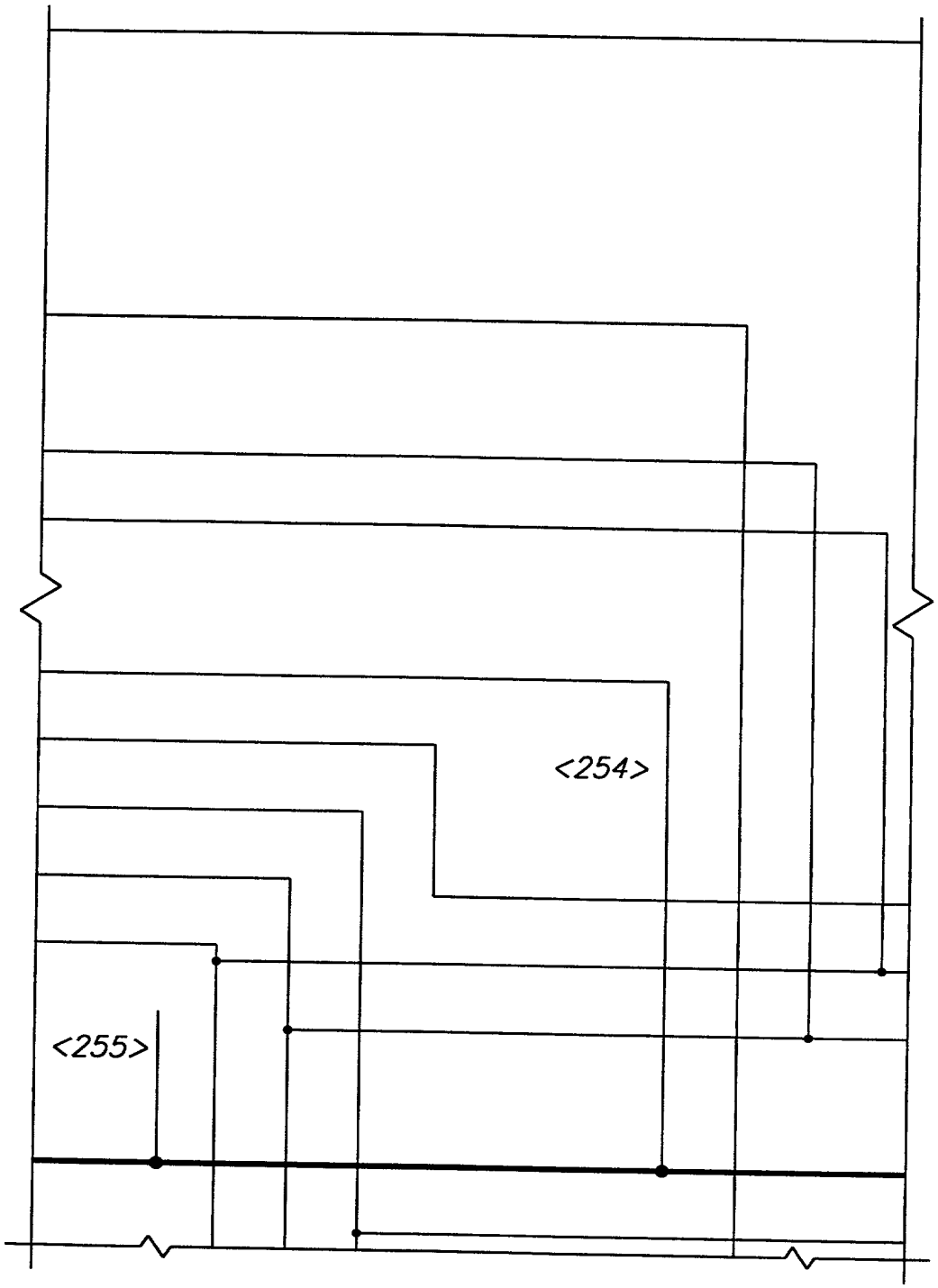


Fig 6AA

0962295 - 05.11.04



Фиг 6АВ

ЕПТС 50-250226.0

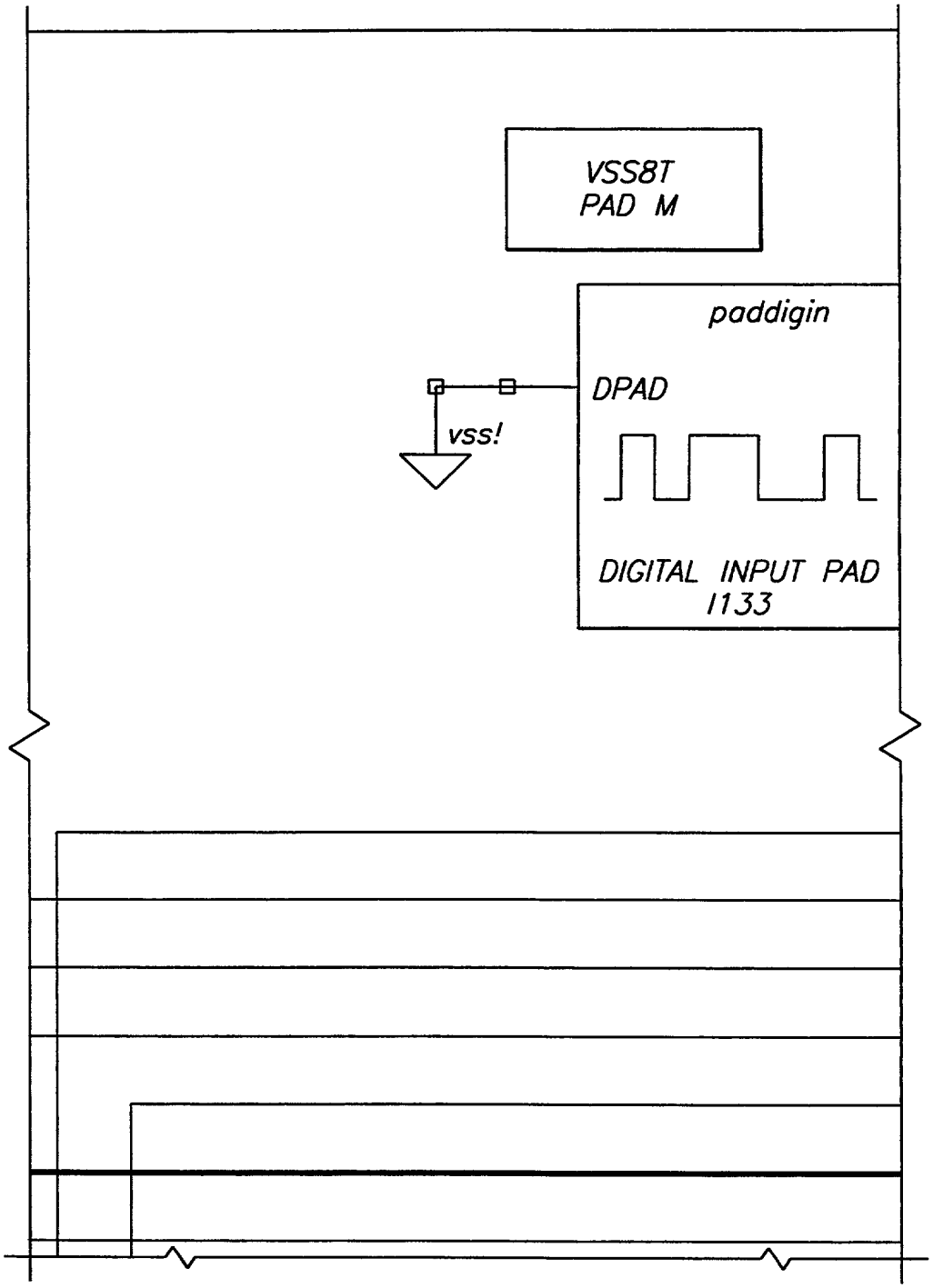


Fig 6AC

EP 0 744 694 A1

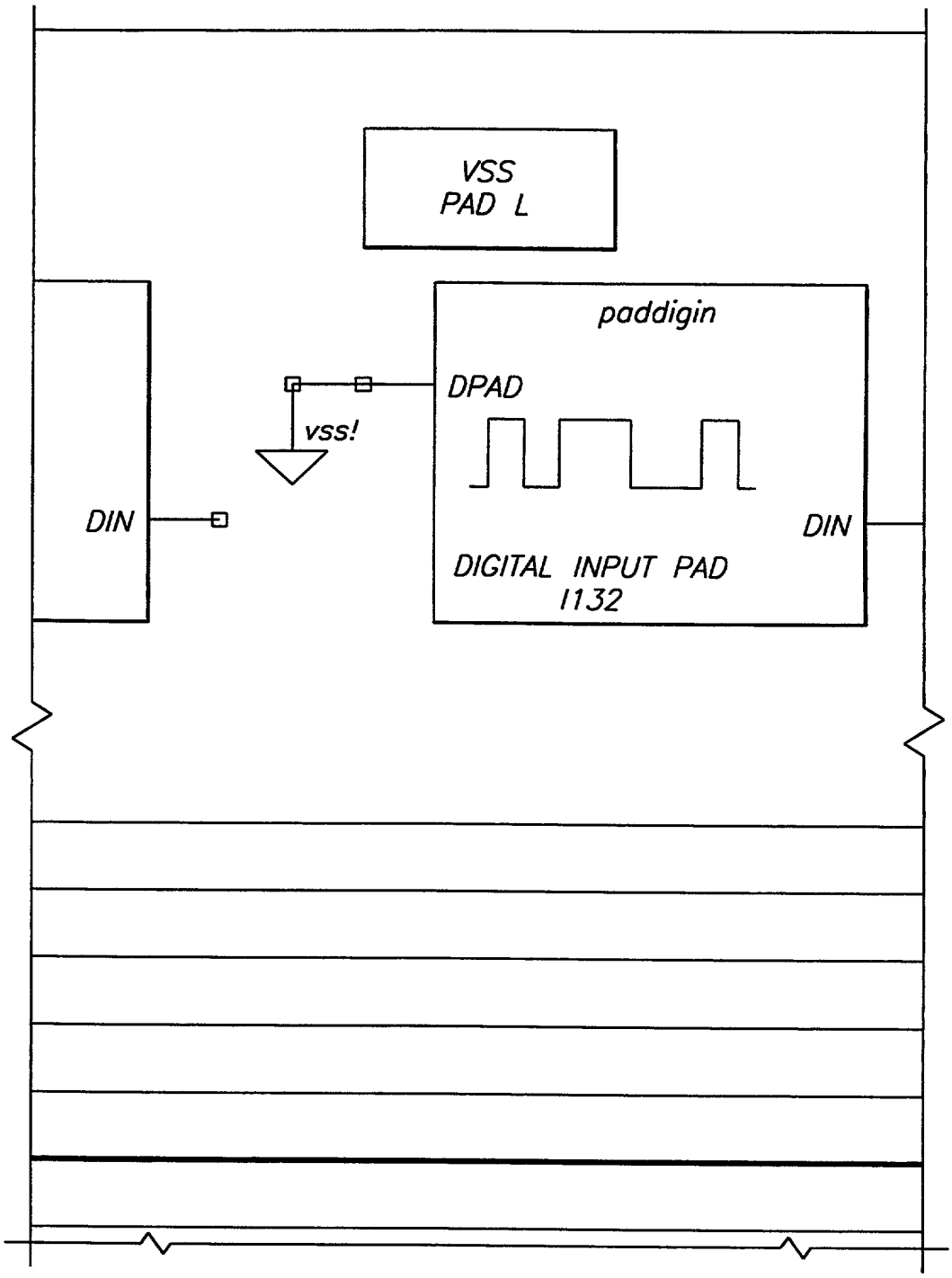


Fig 6AD

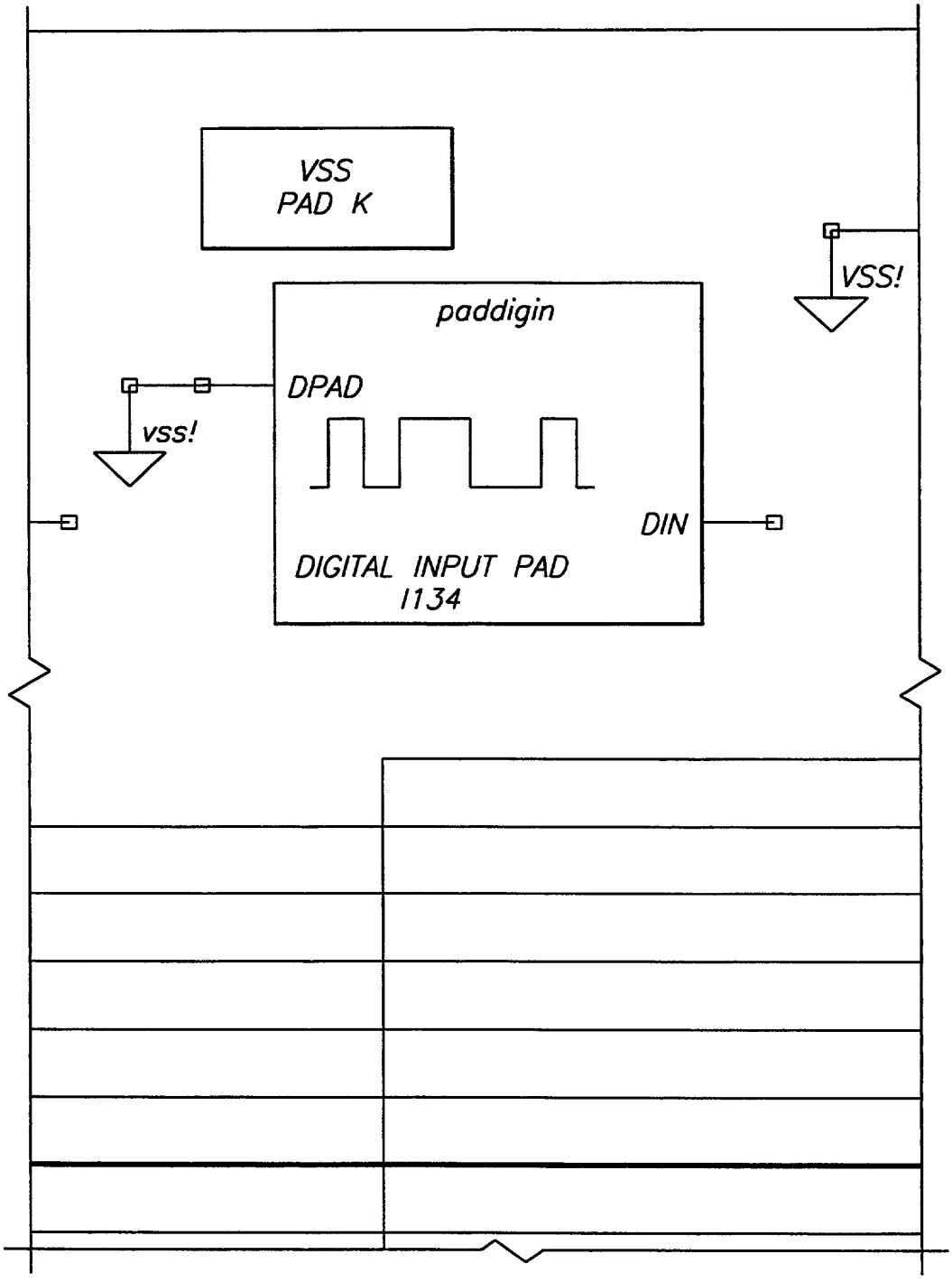


FIG 6AE

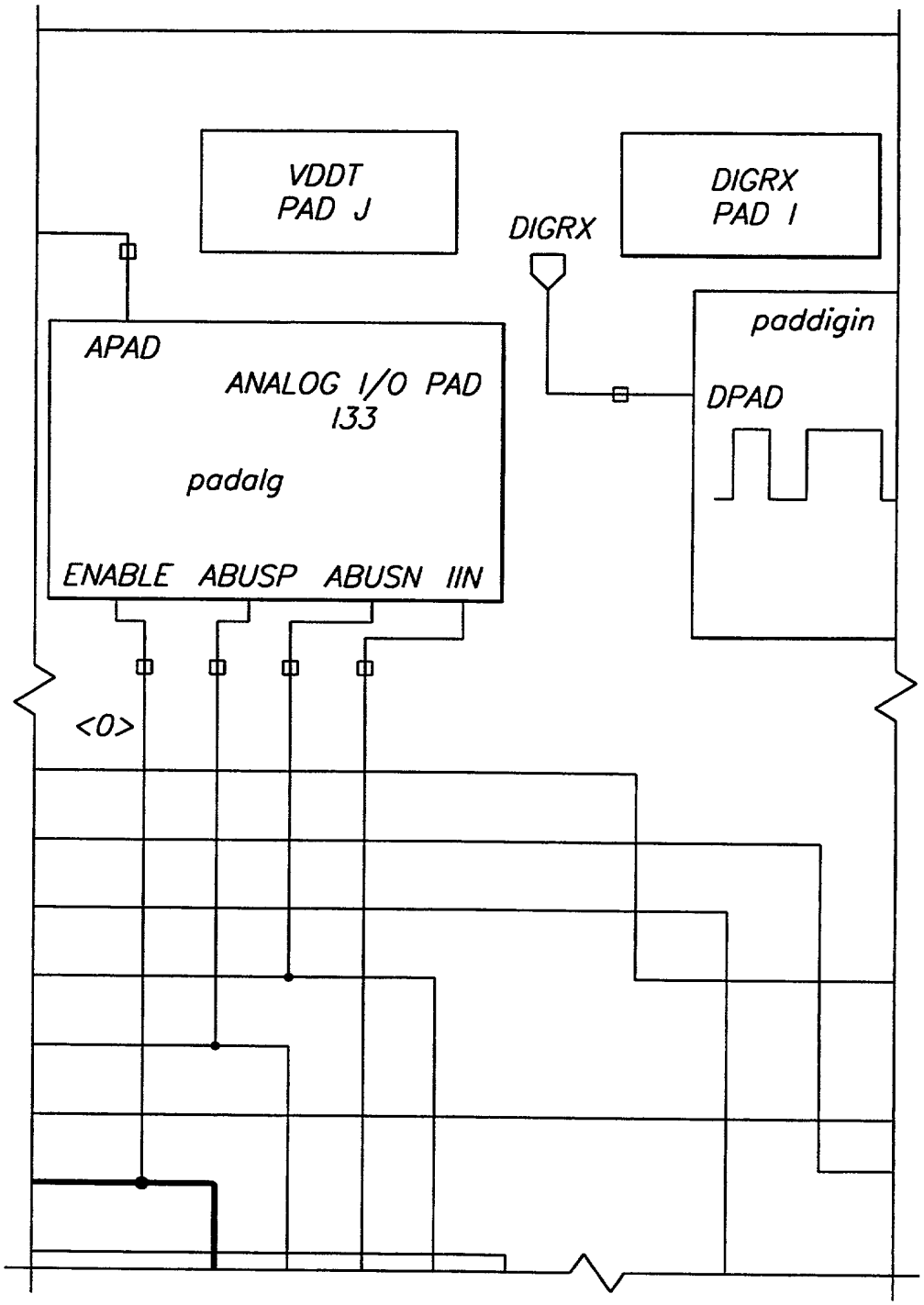


Fig 6AF

1CTS.US-2003/059174

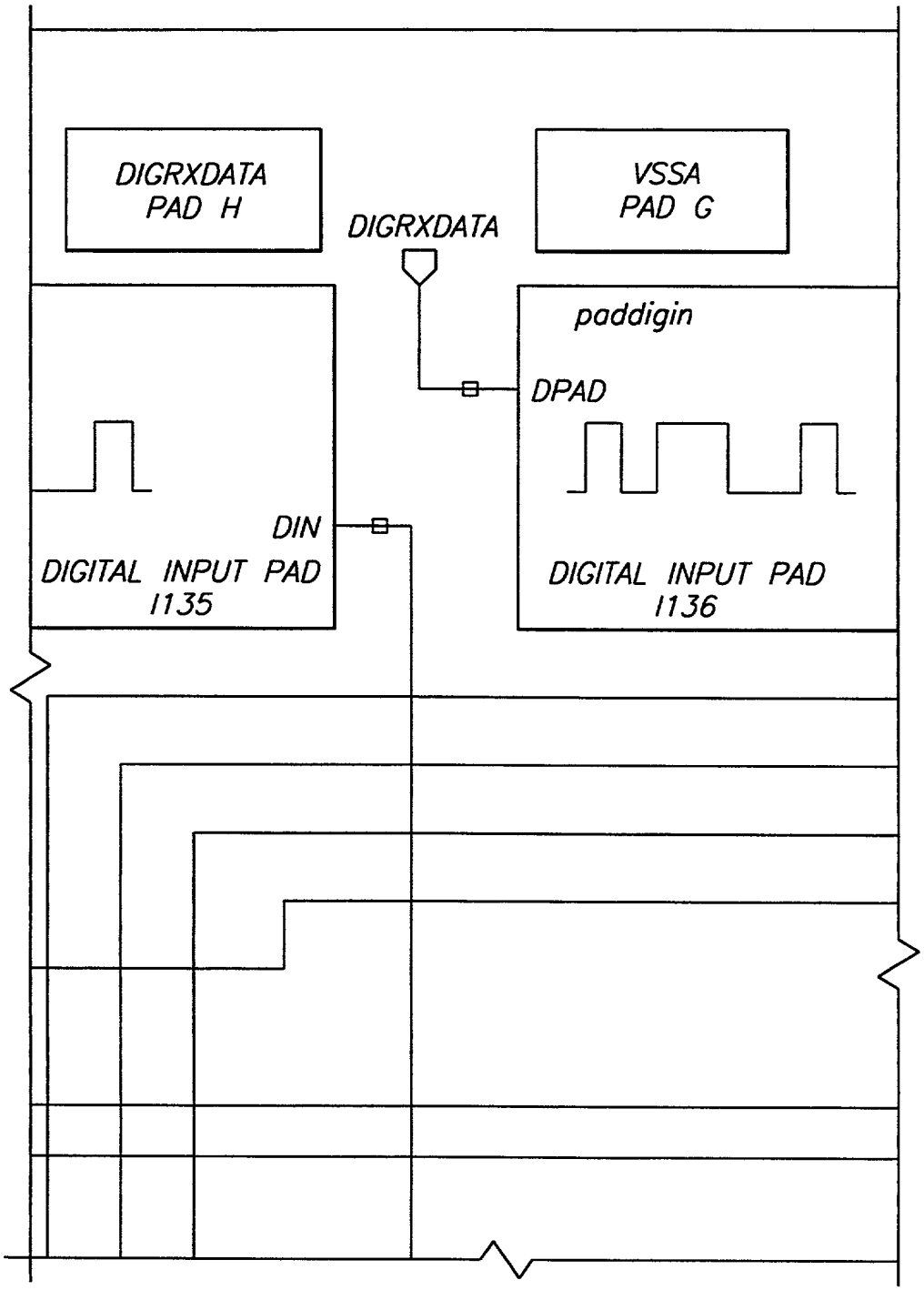


Fig 6A

EP 1 195 693 A2

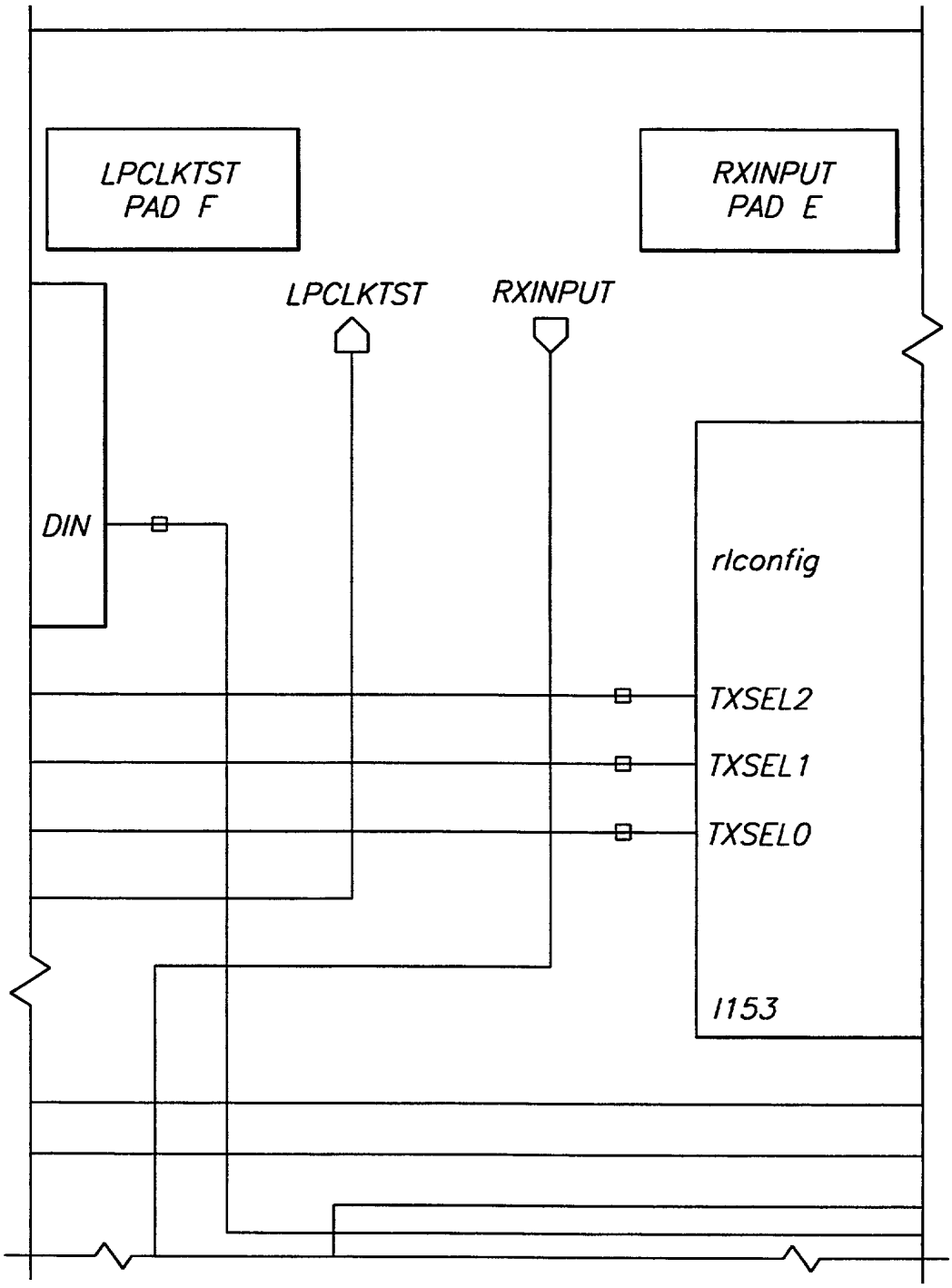

LPCLKTST
PAD F
RXINPUT
PAD E
LPCLKTST
RXINPUT
DIN
rlconfig
TXSEL2
TXSEL1
TXSEL0
1153

Fig 6AH

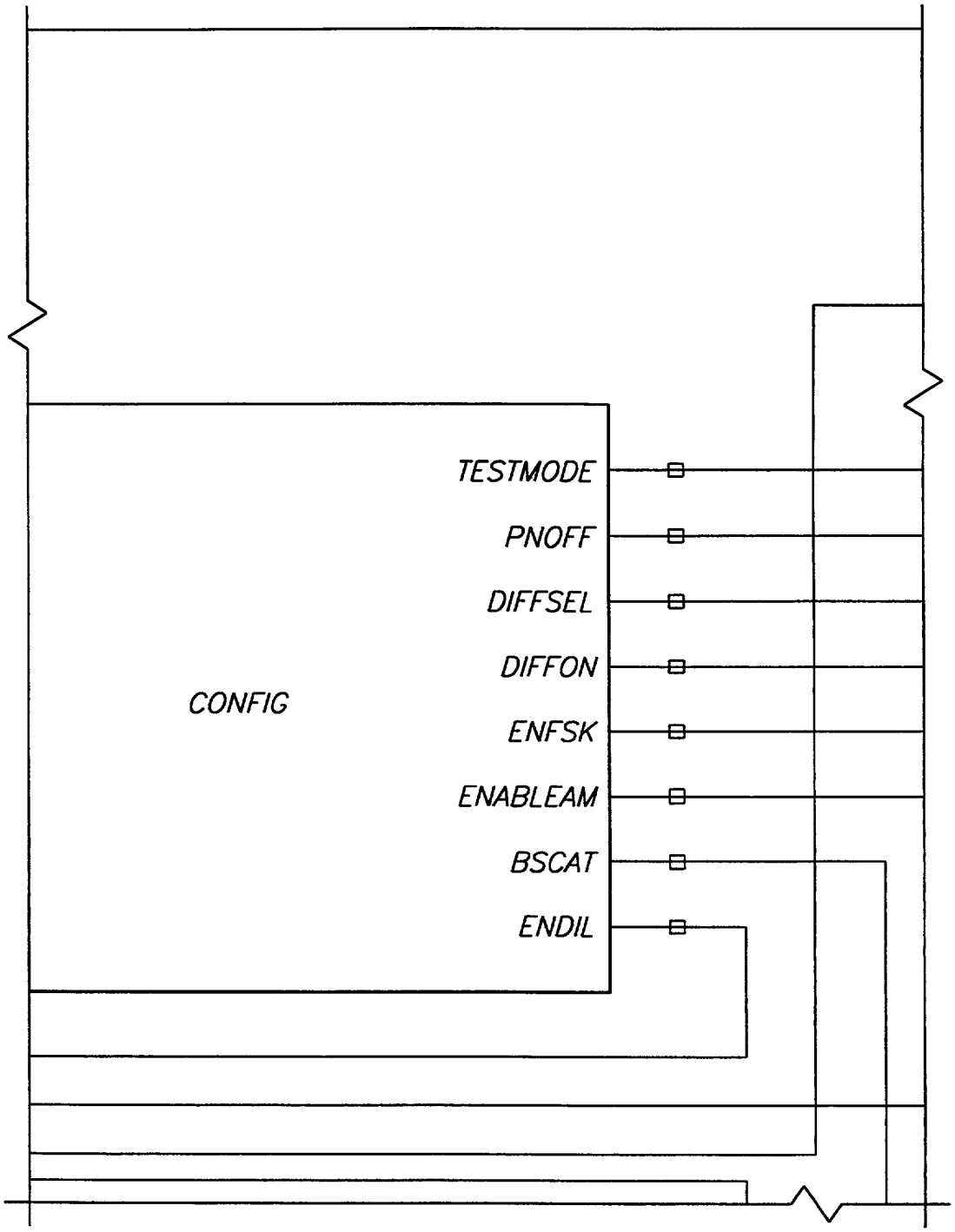


Fig 6A II

EPO - DG 2 - 15.05.2013

EP 1 503 369 A1

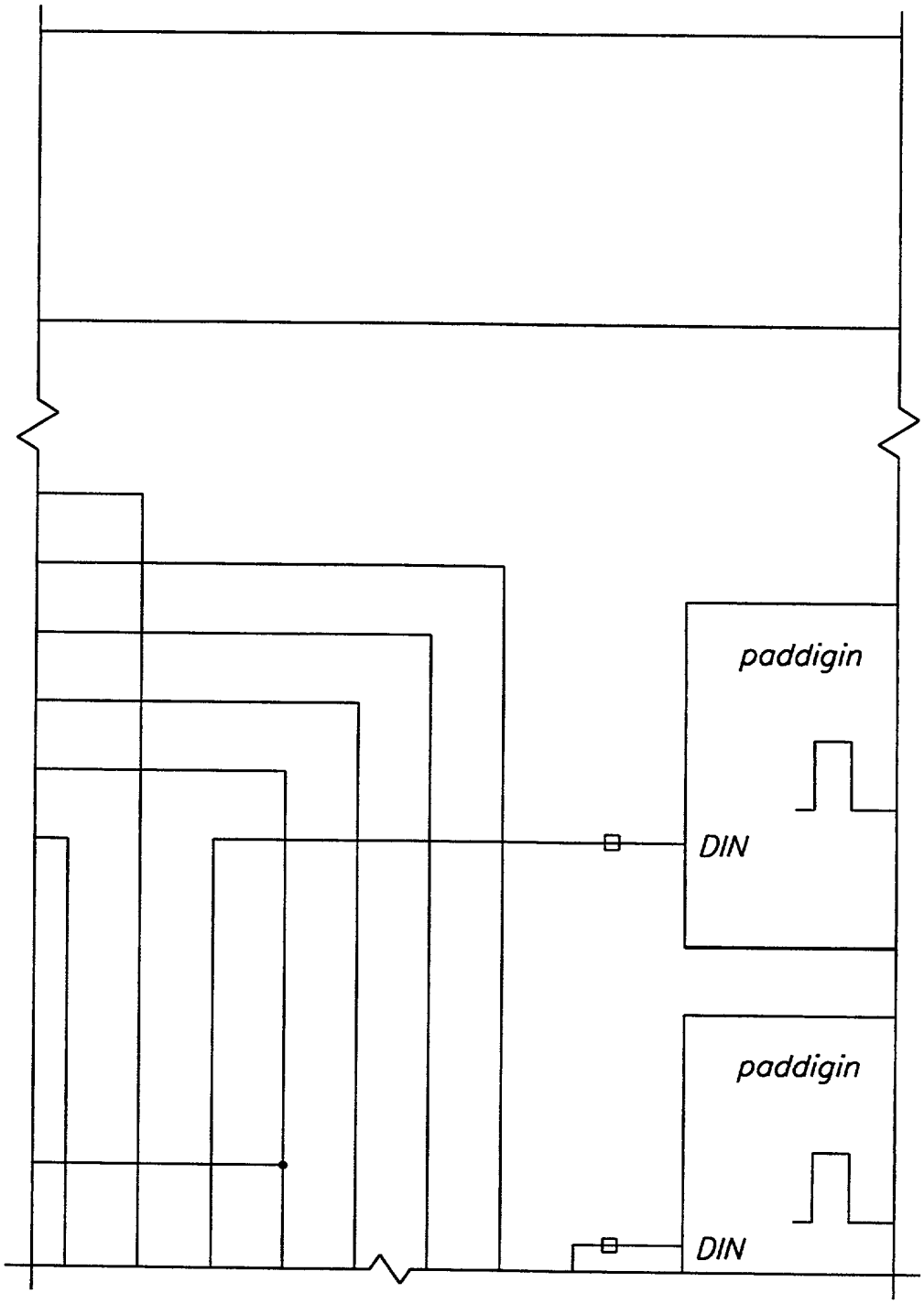


Fig 6A

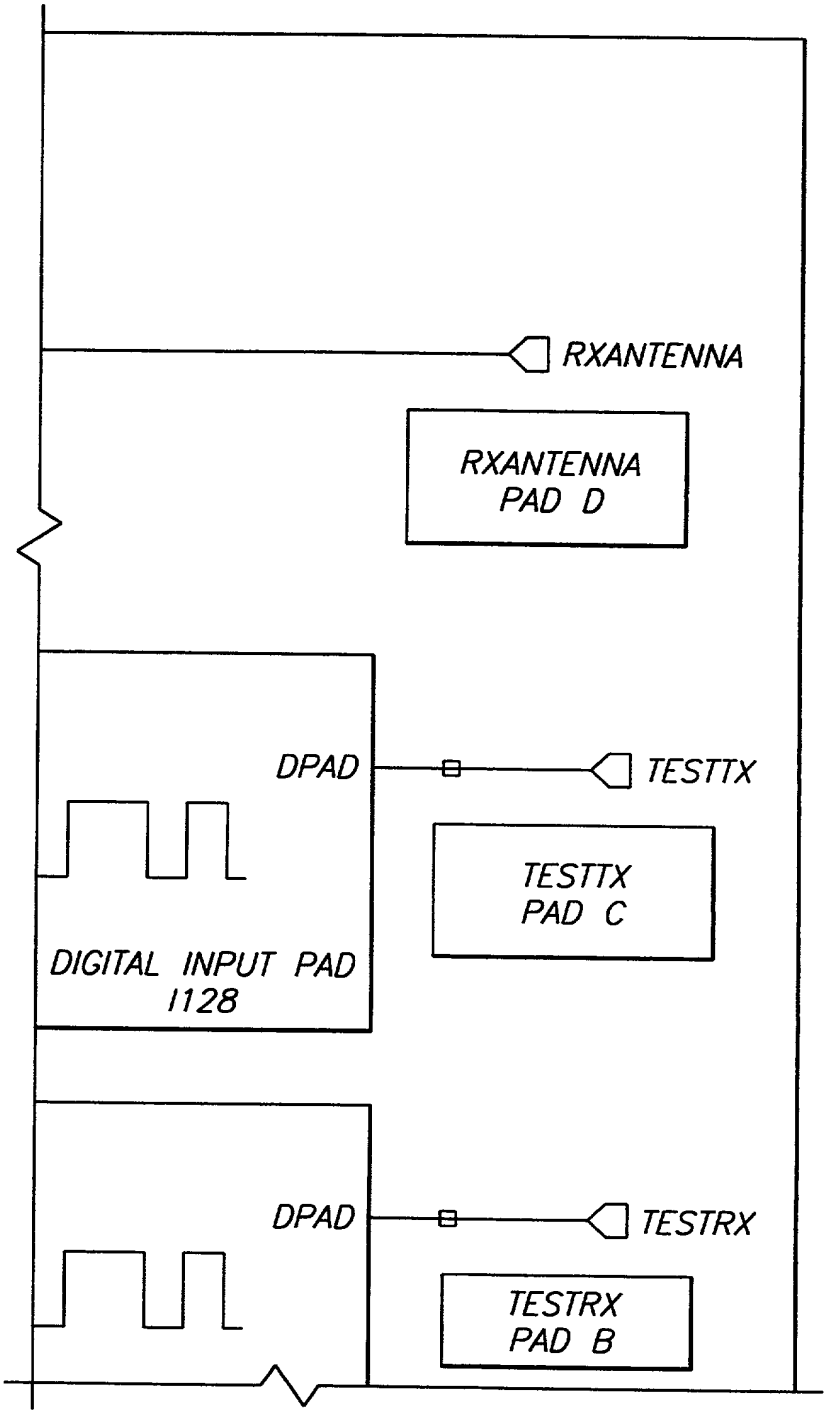
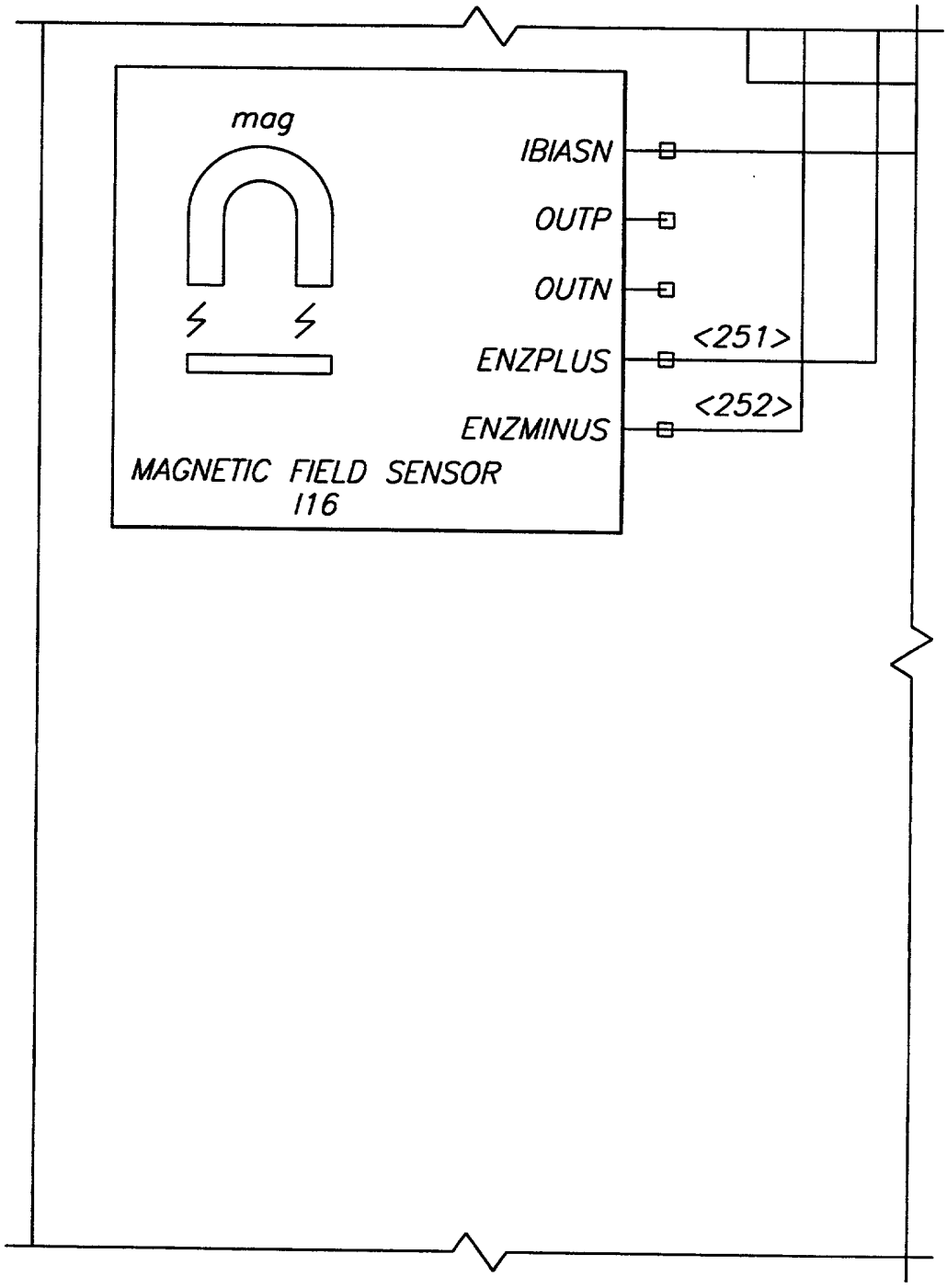

RXANTENNA
RXANTENNA
PAD D
DPAD
TESTTX
TESTTX
PAD C
DIGITAL INPUT PAD
1128
DPAD
TESTRX
TESTRX
PAD B

Fig 6AK


mag
IBIASN
OUTP
OUTN
ENZPLUS
<251>
ENZMINUS
<252>
MAGNETIC FIELD SENSOR
116

Фиг 6ВА

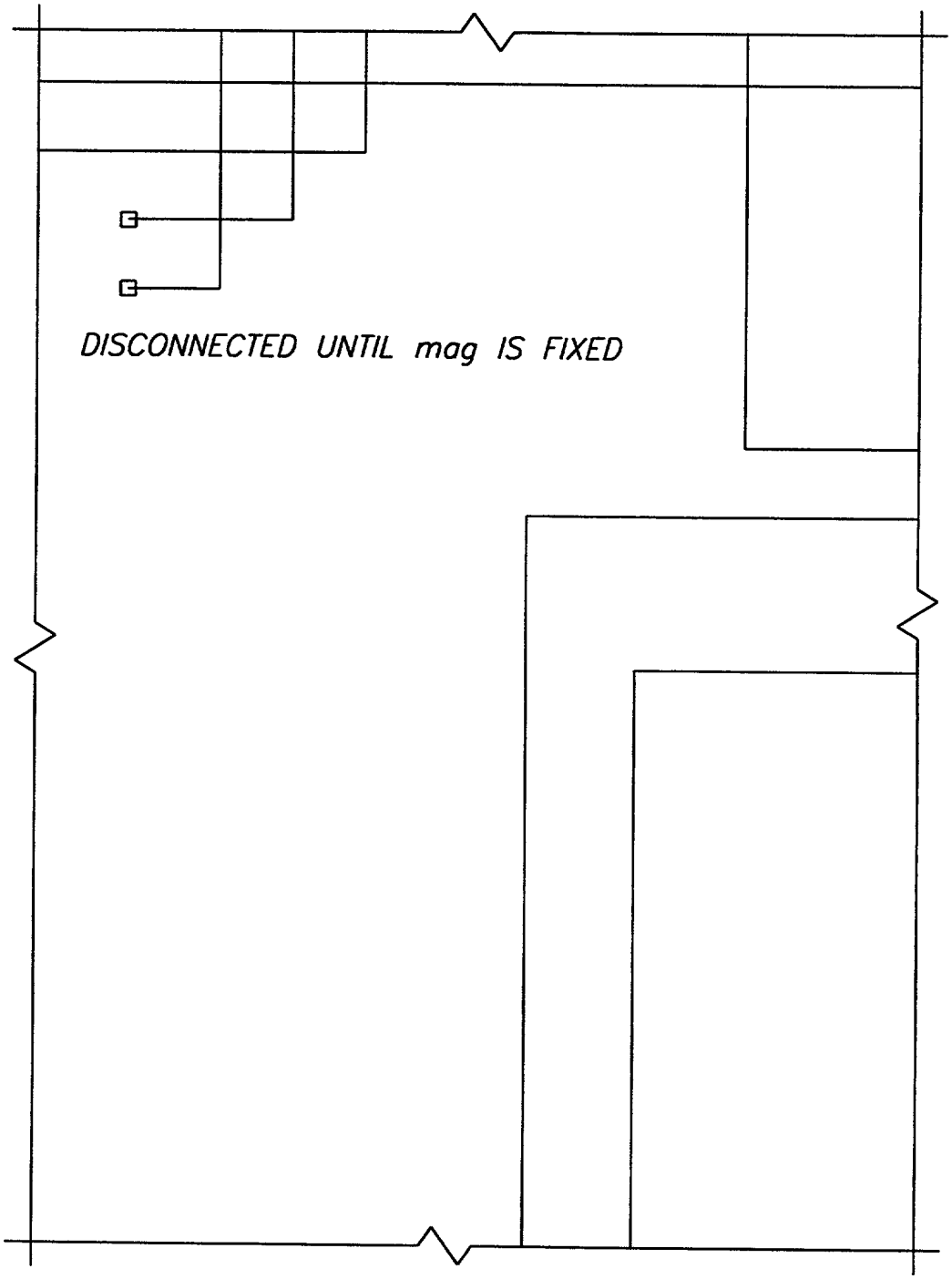
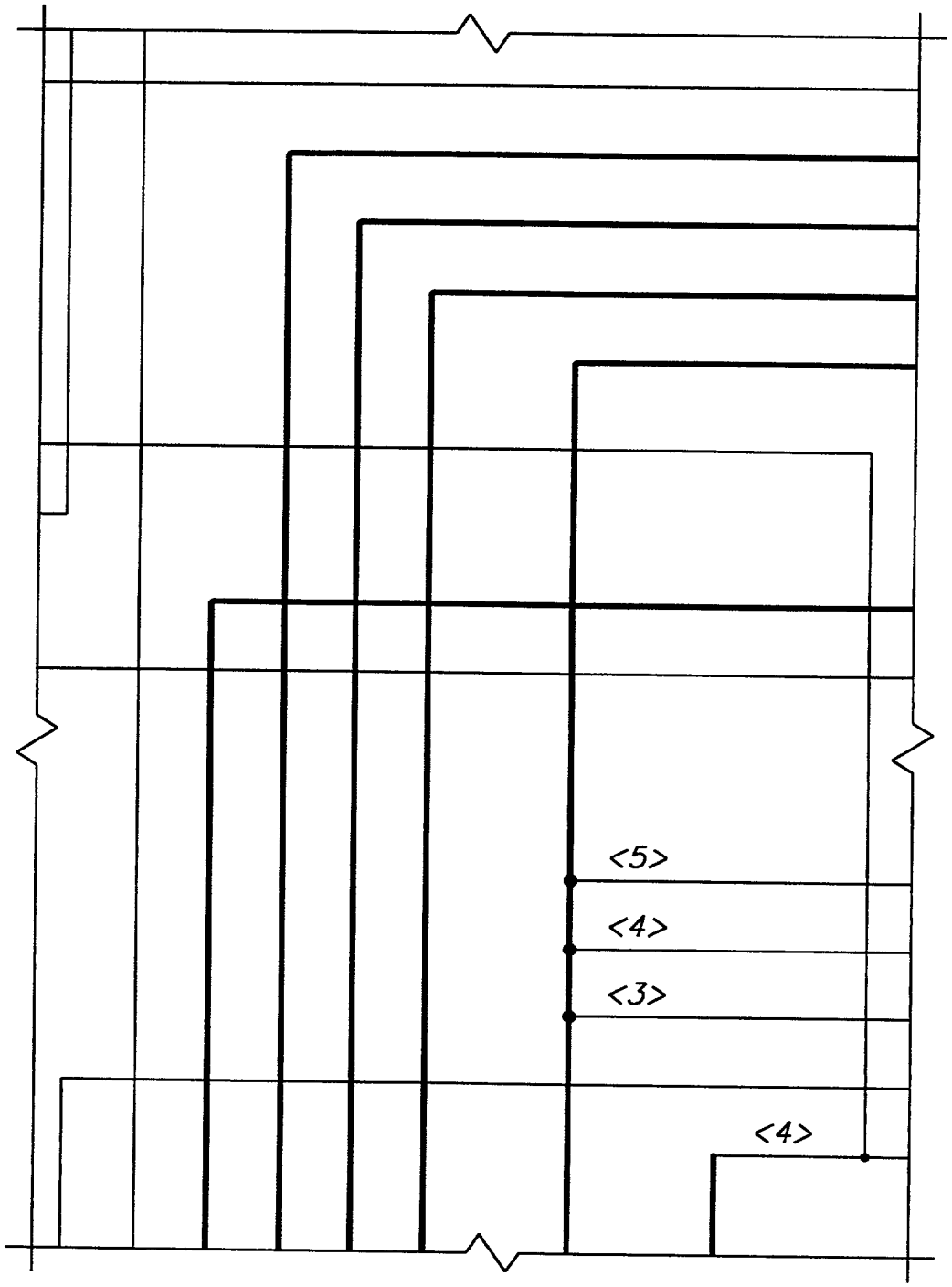


Fig 6BB

Document: GB2547154A



Вид ВВС

Копирование запрещено

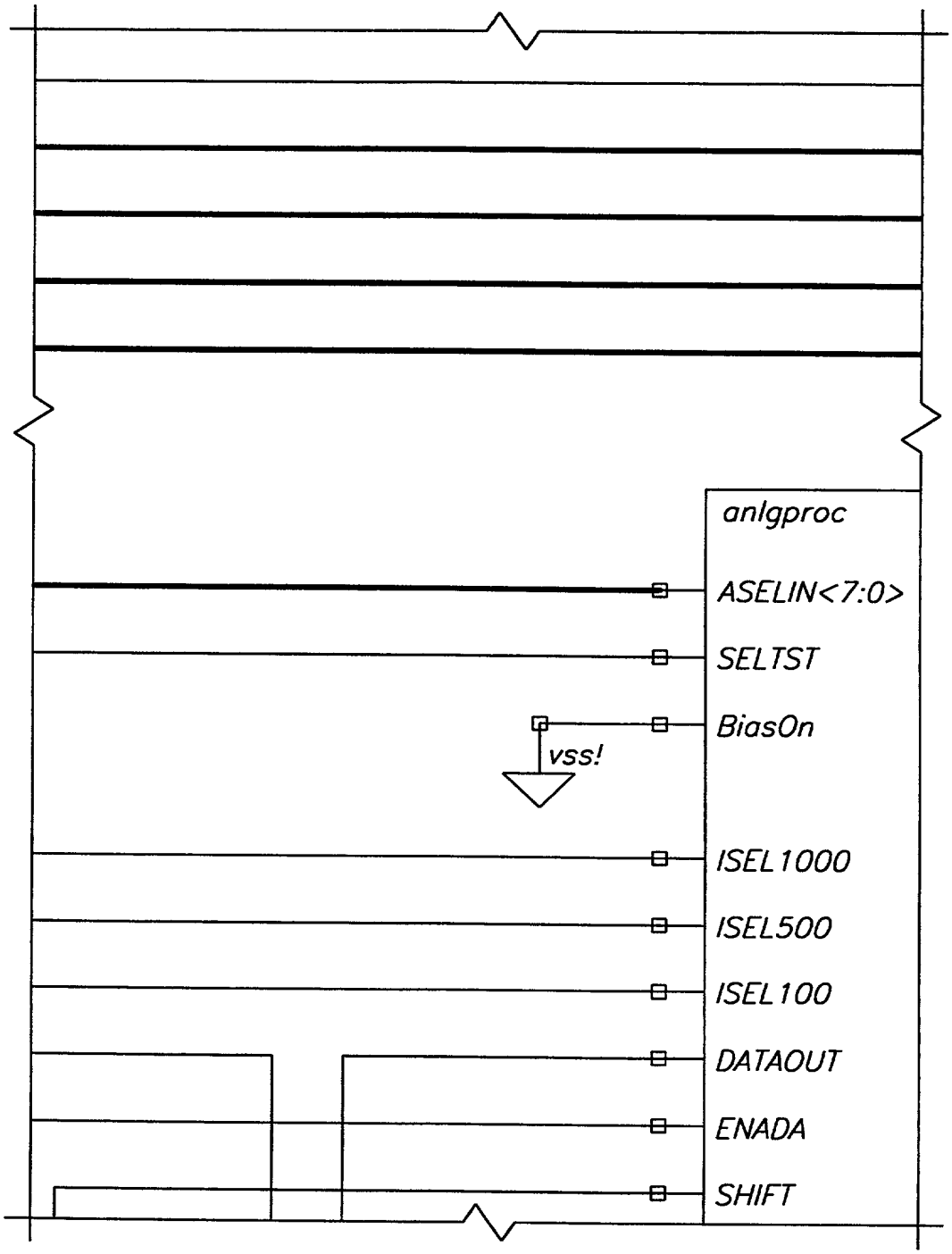


Fig 6BD

EPO - DG, 03.05.2001

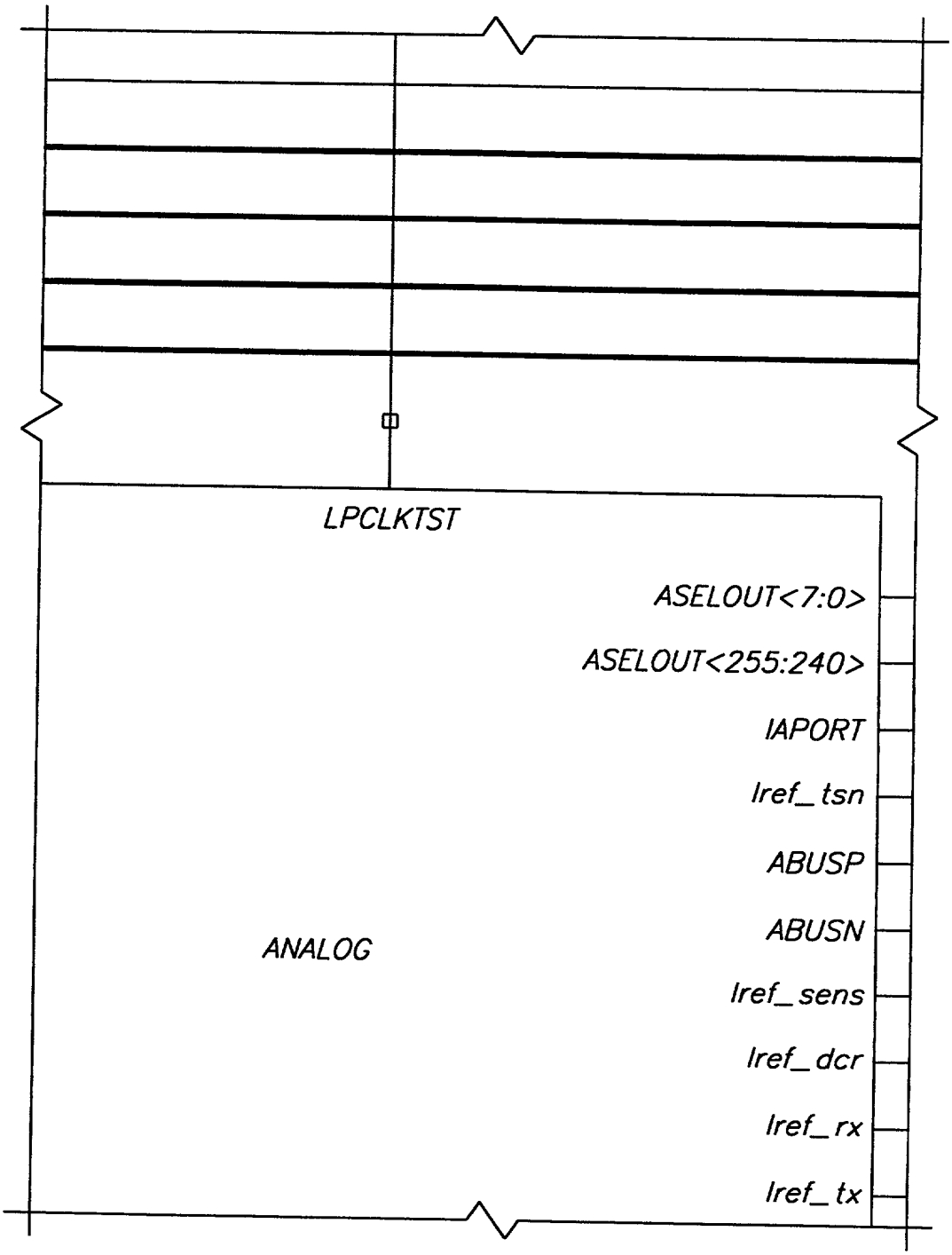
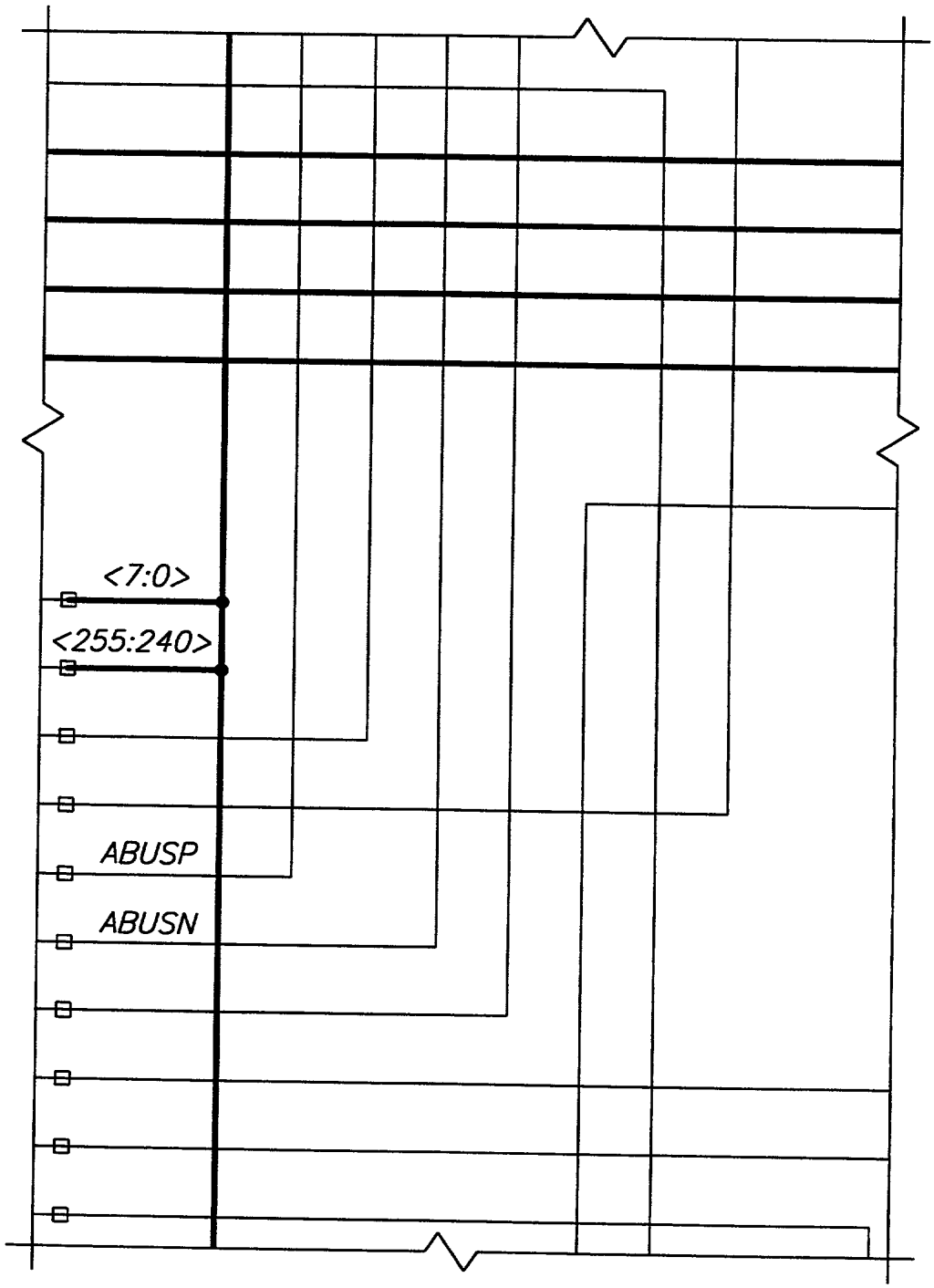


FIG 6BE

EP 1 594 295 A1



Фиг 6B

EP 1 573 737 B1

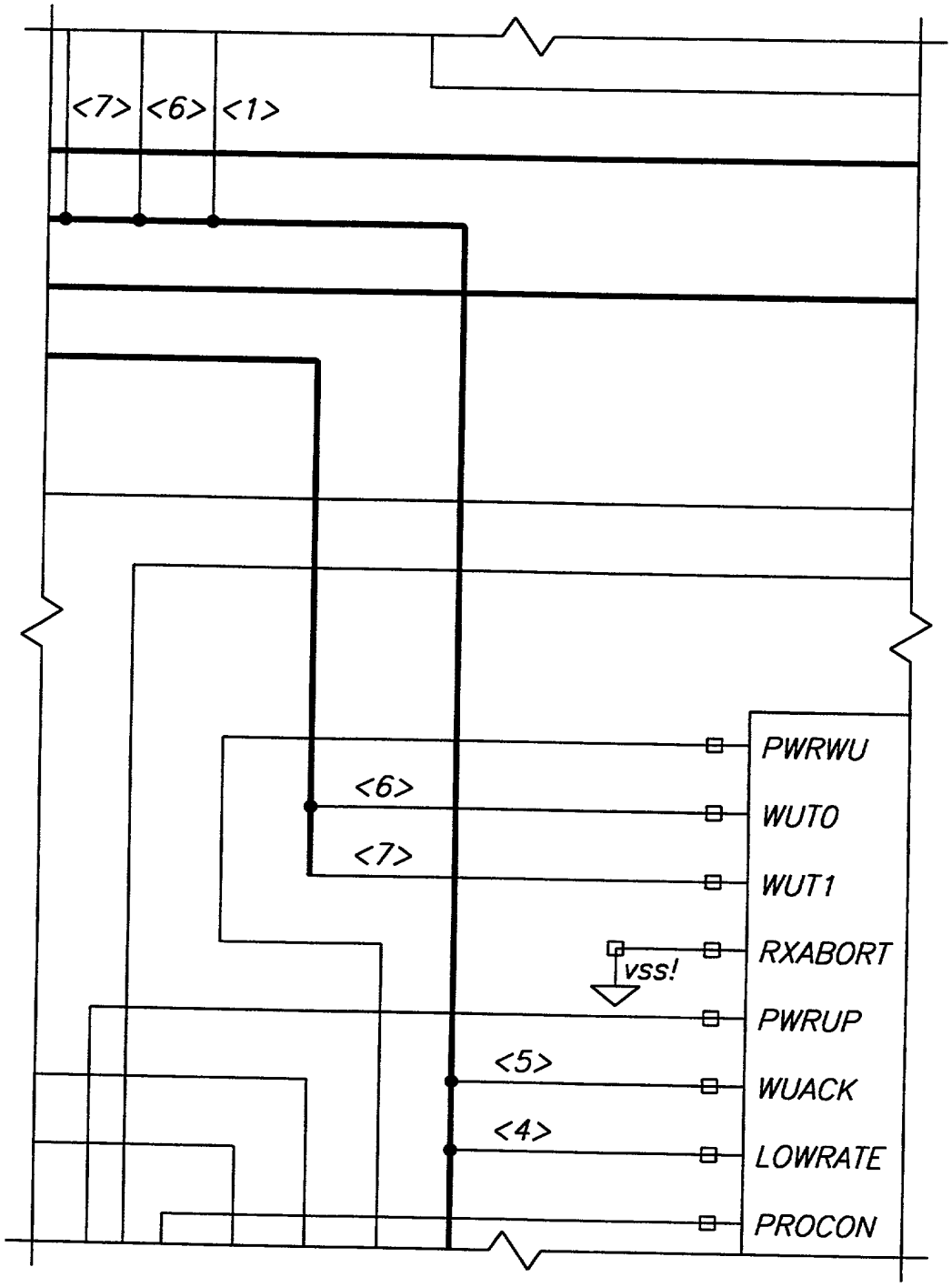
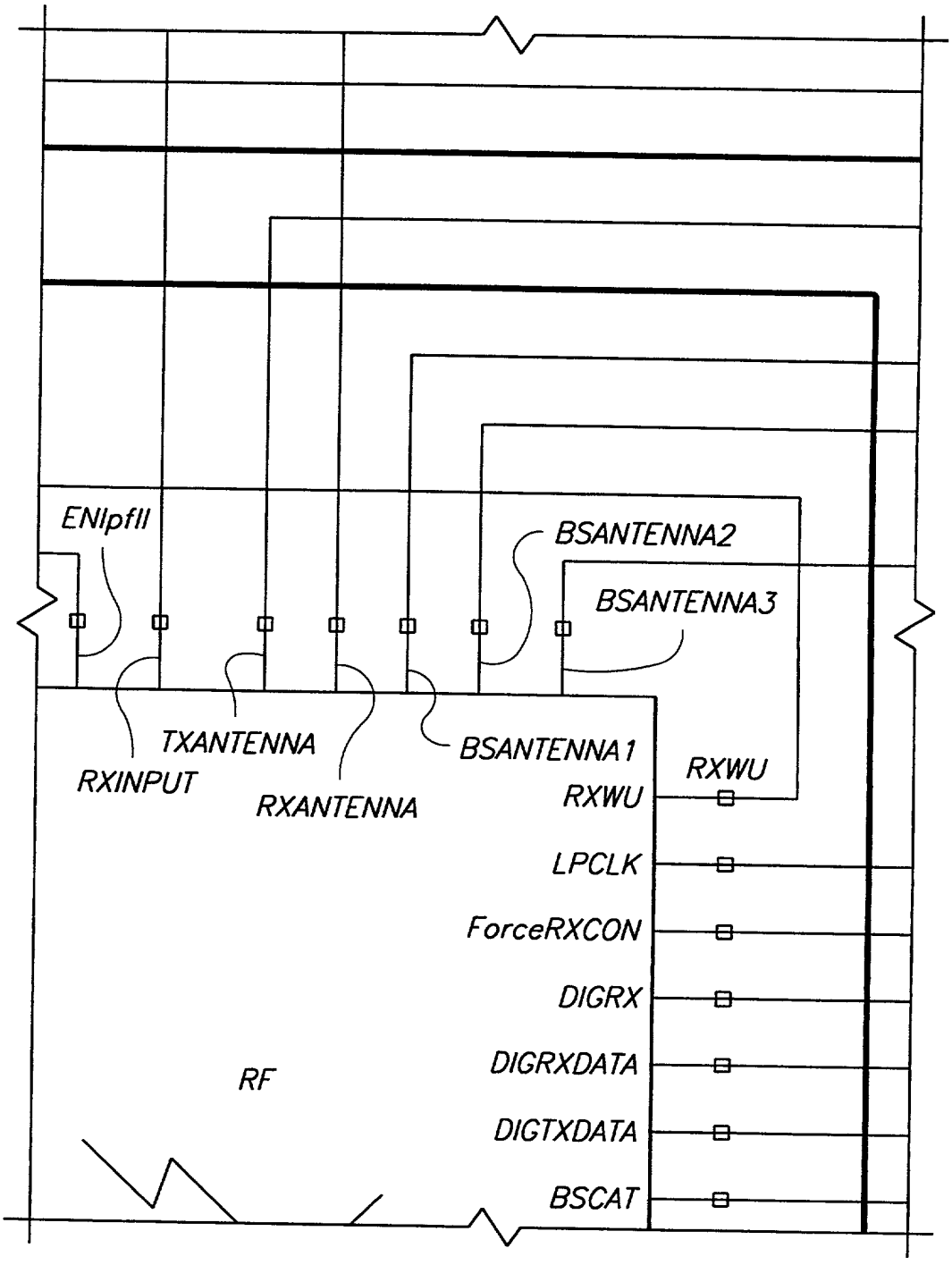


Fig 6B

WO 2005/050954 PCT/US2004/038955


ENIpfII
BSANTENNA2
BSANTENNA3
TXANTENNA
RXINPUT
RXANTENNA
BSANTENNA1
RXWU
RXWU
LPCLK
ForceRXCON
DIGRX
DIGRXDATA
DIGTXDATA
BSCAT
RF

Фиг 6BH

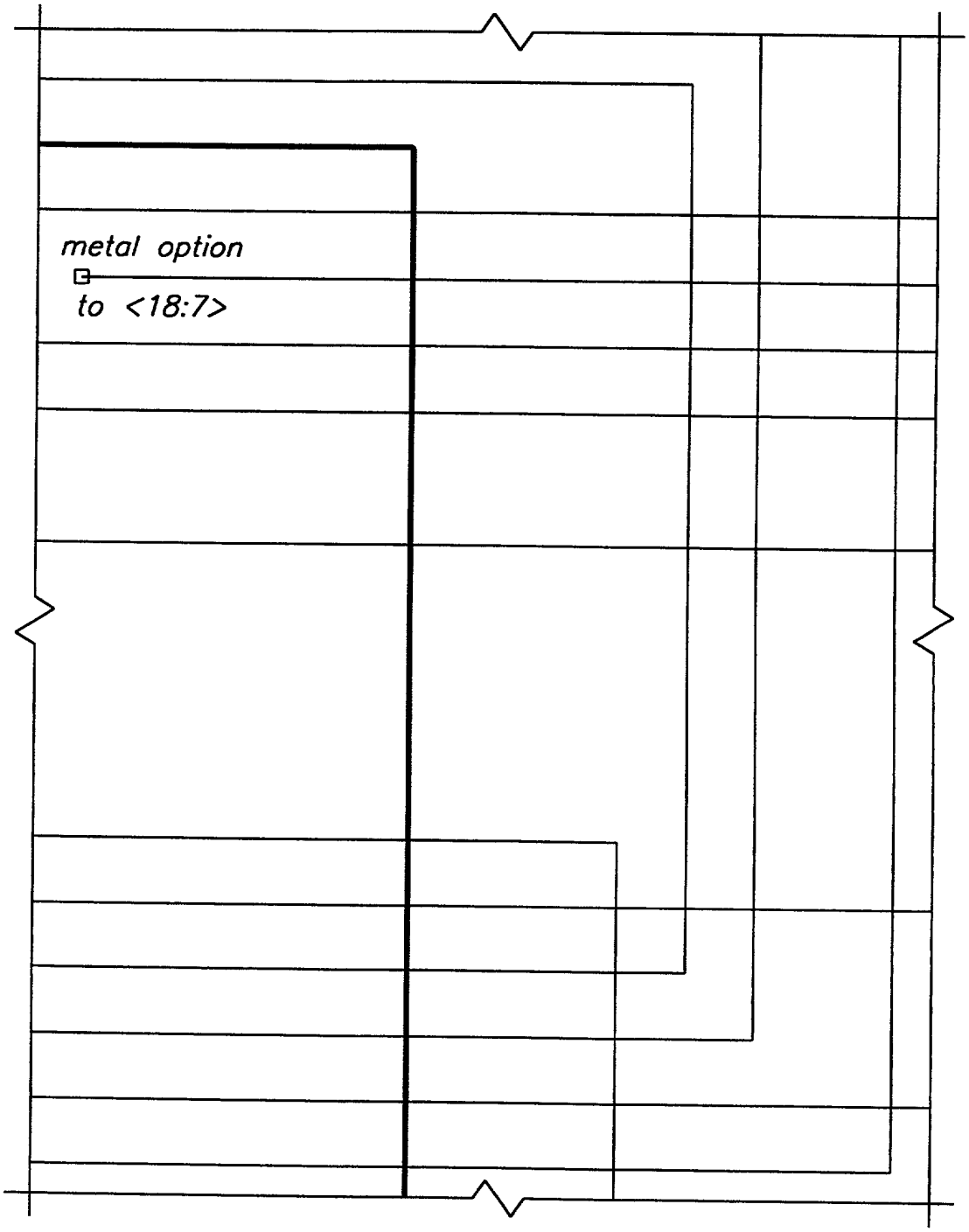


Fig 6B1

Patent Office - 05 JUN 2024

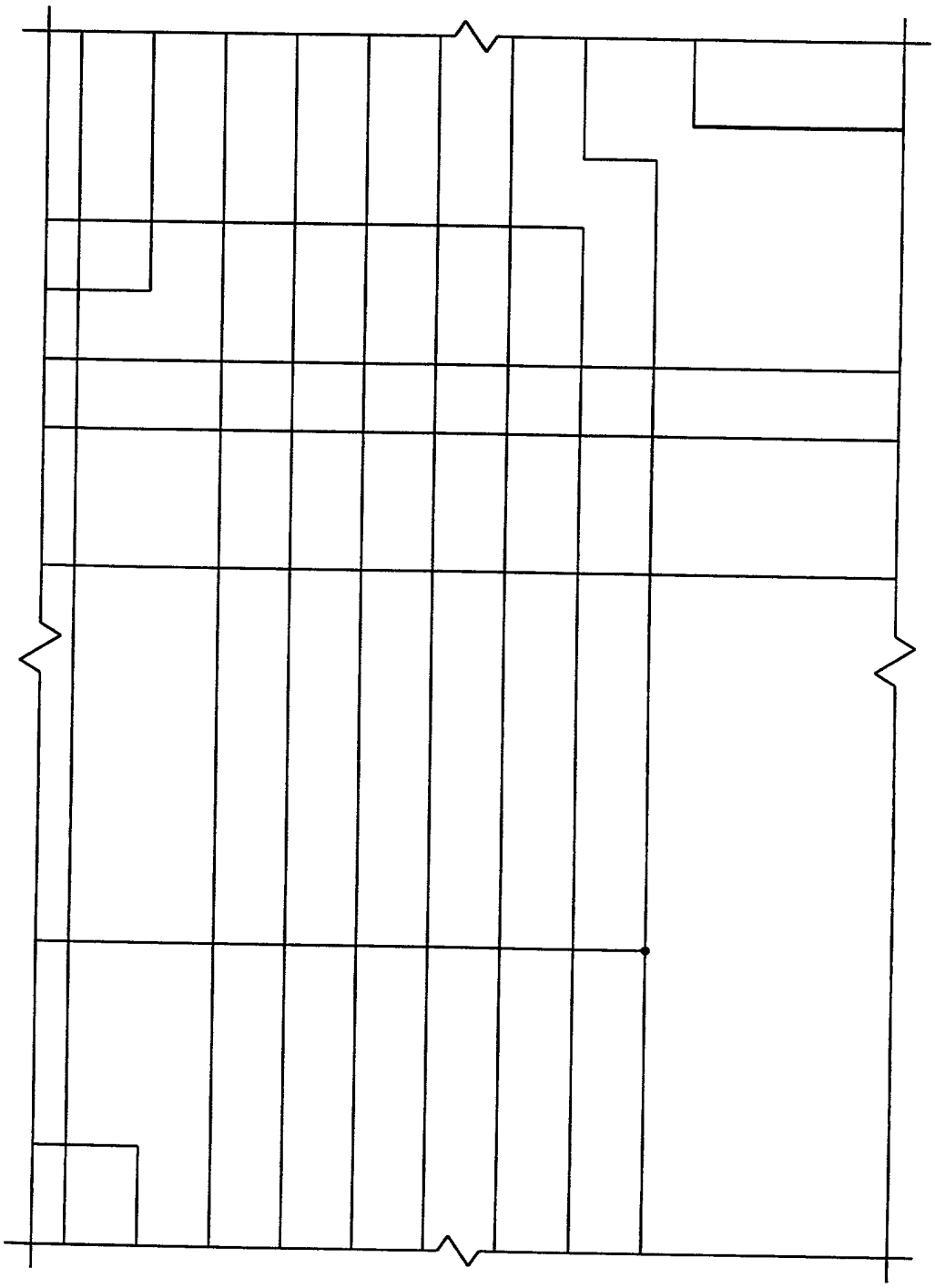


Fig 6B

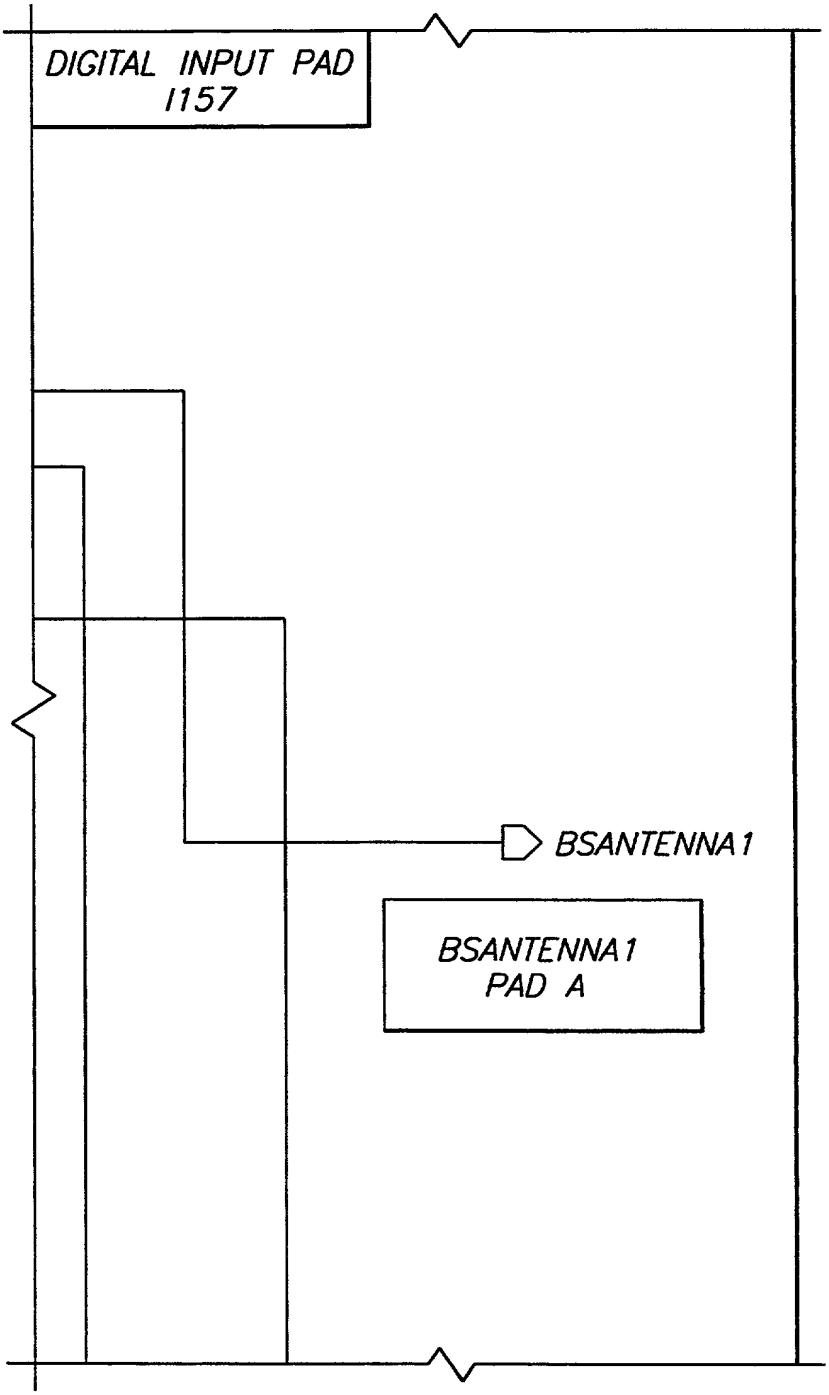


Fig 6BK

0952205 - 05.11.04

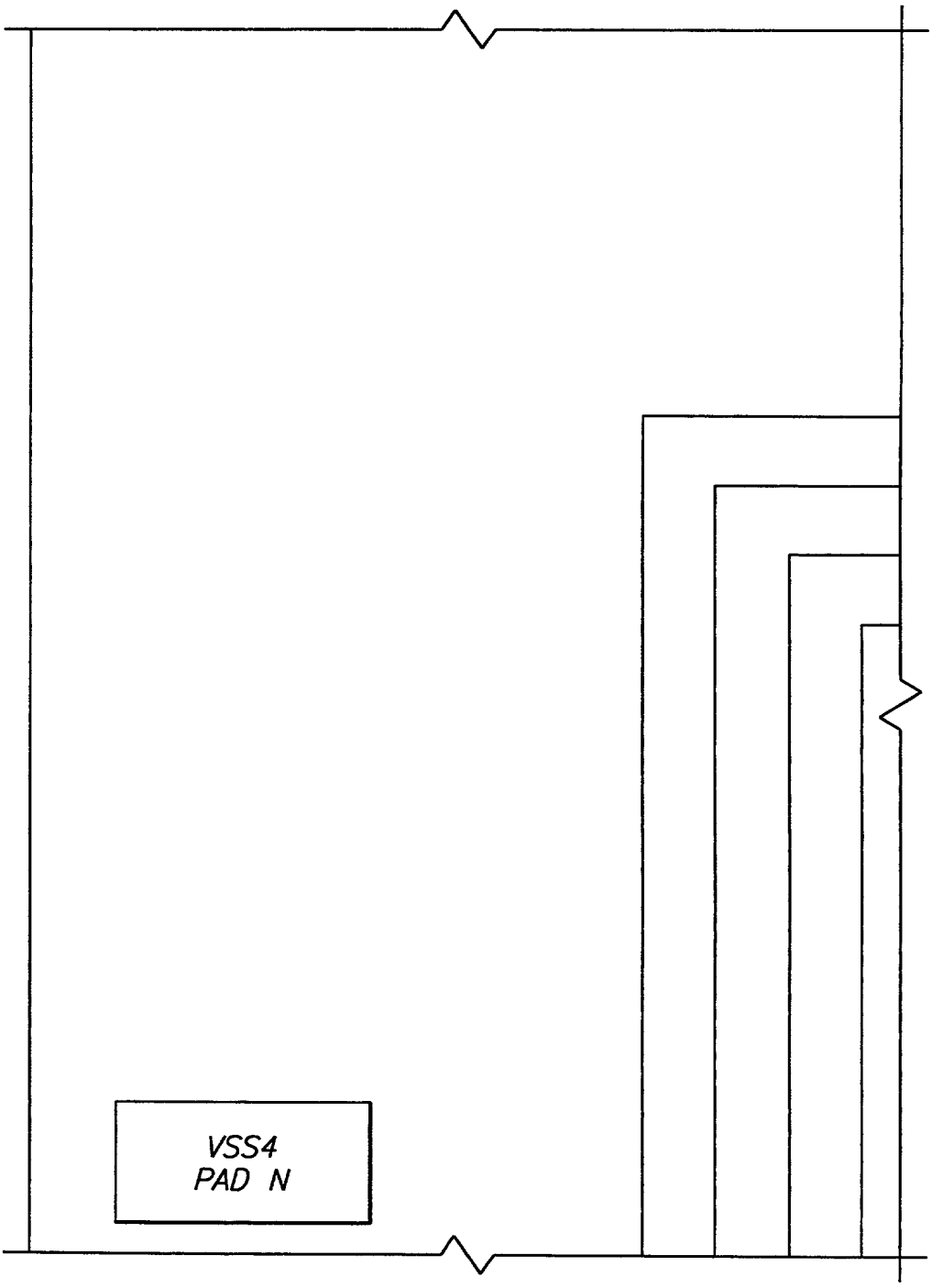


Fig 6CA

US6215654B1

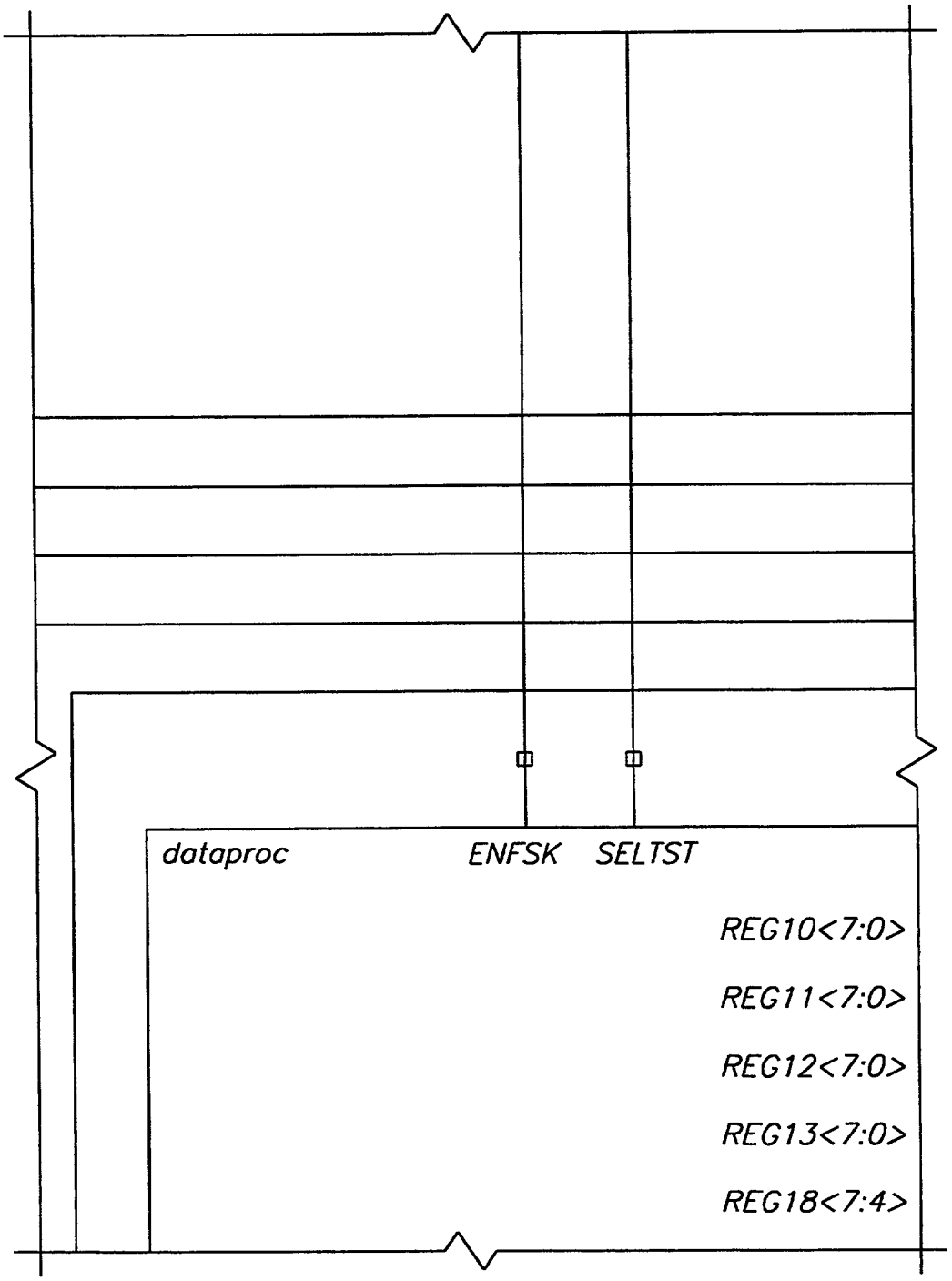


Fig 6CB

EP 0 952 705 A2

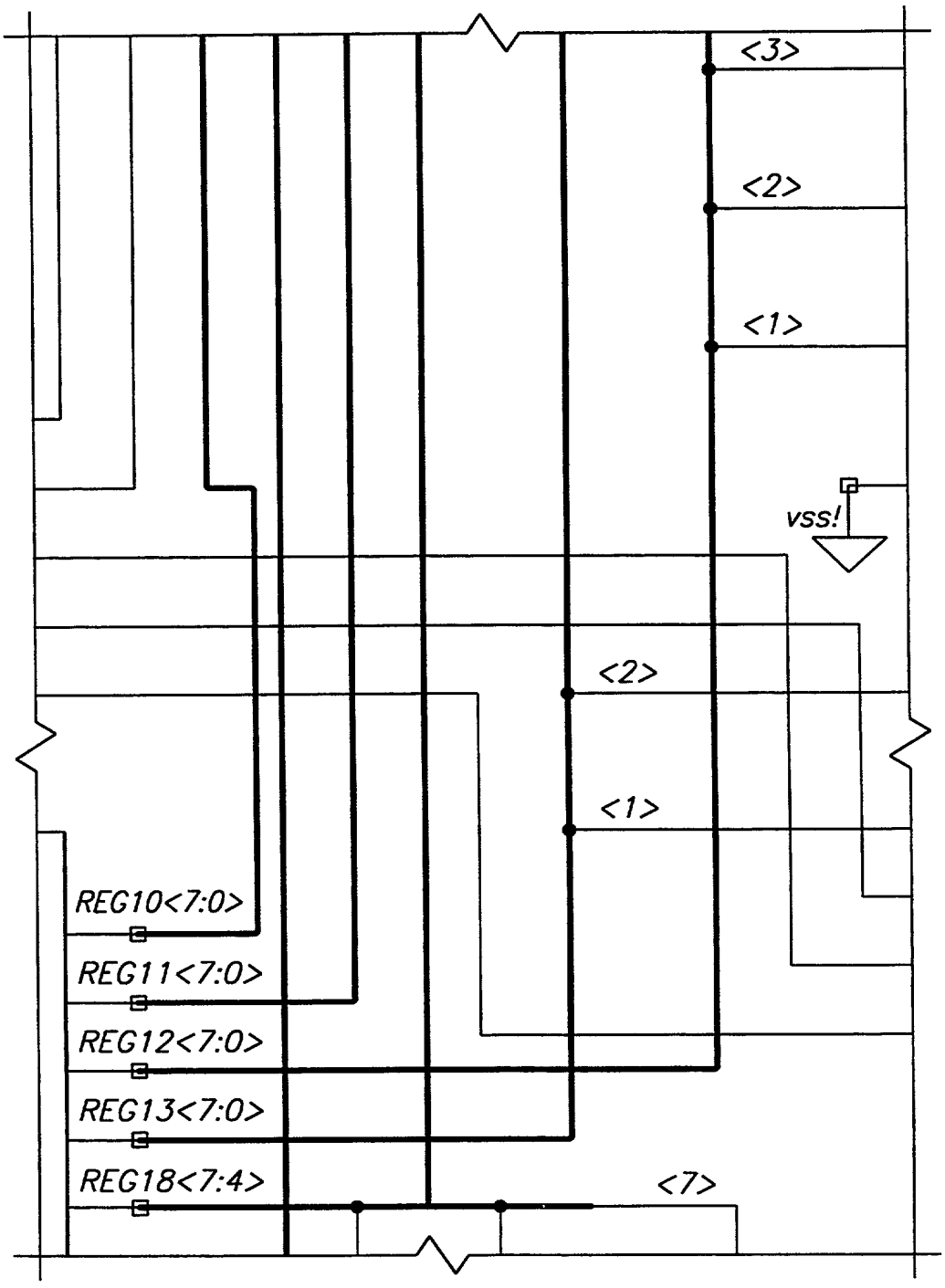


Fig 6CC

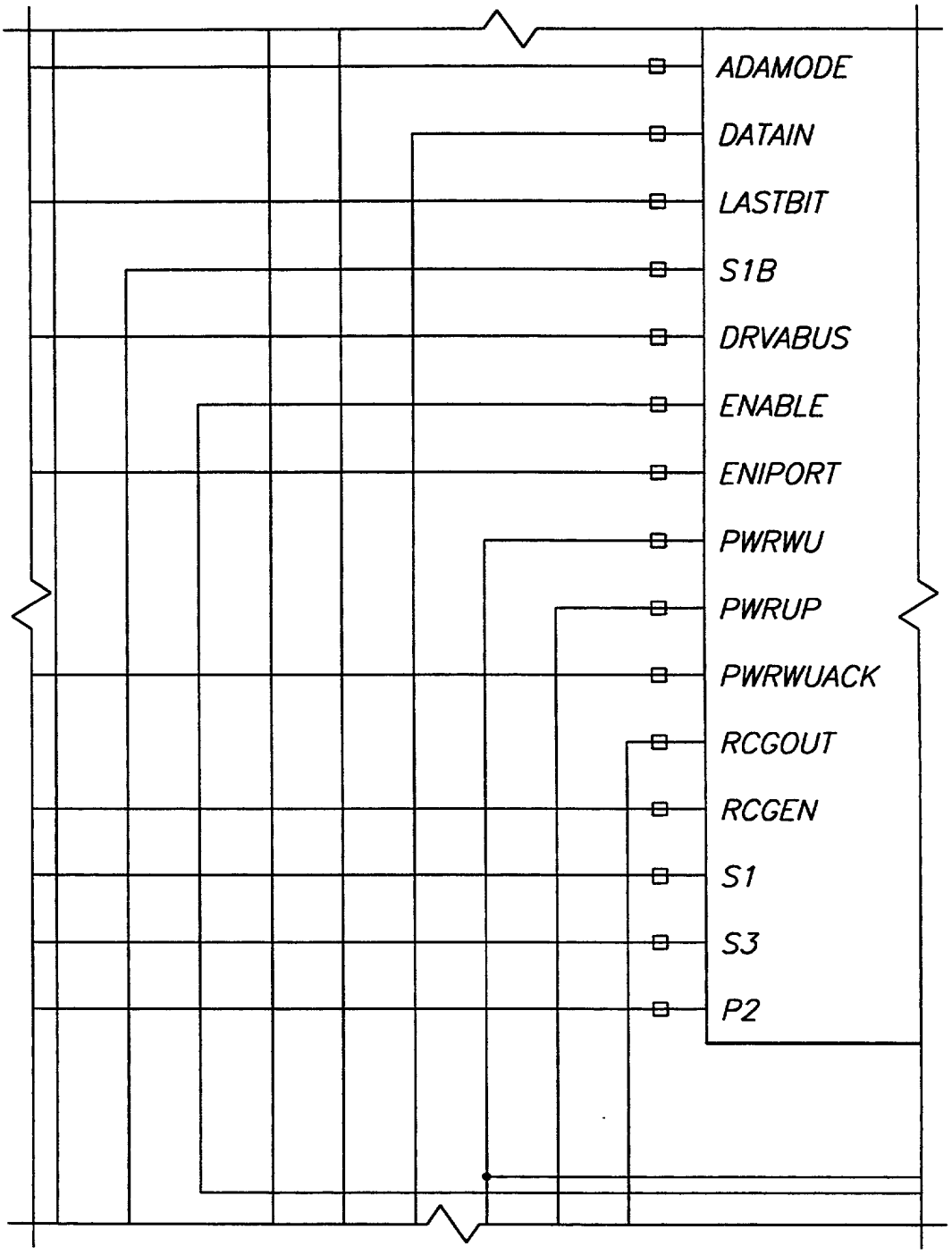


Fig 6C D

09/22/05, EAST Version: 2.0.1.4

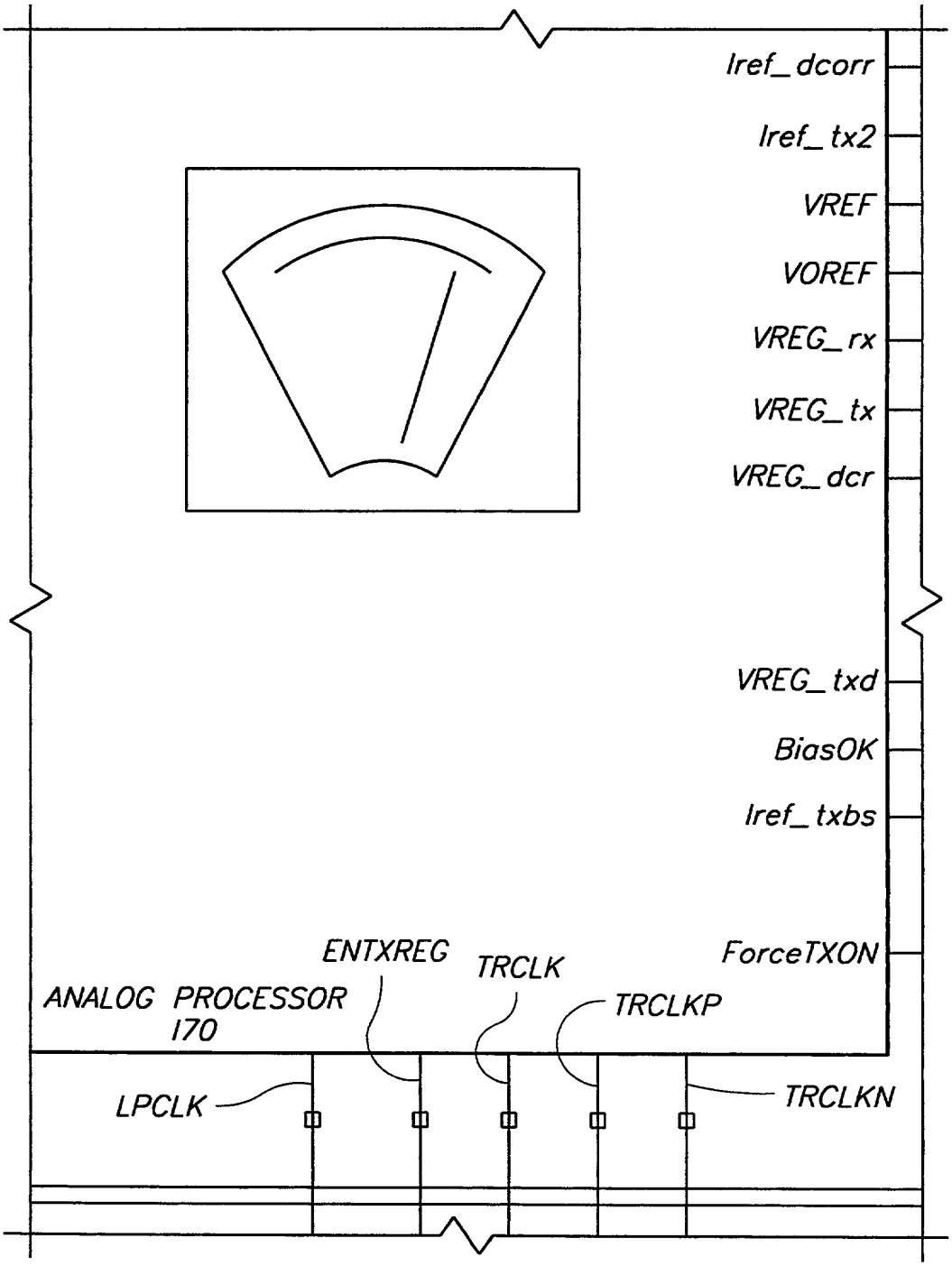


Fig 6CE

09/22/05, EFS-1.05.1

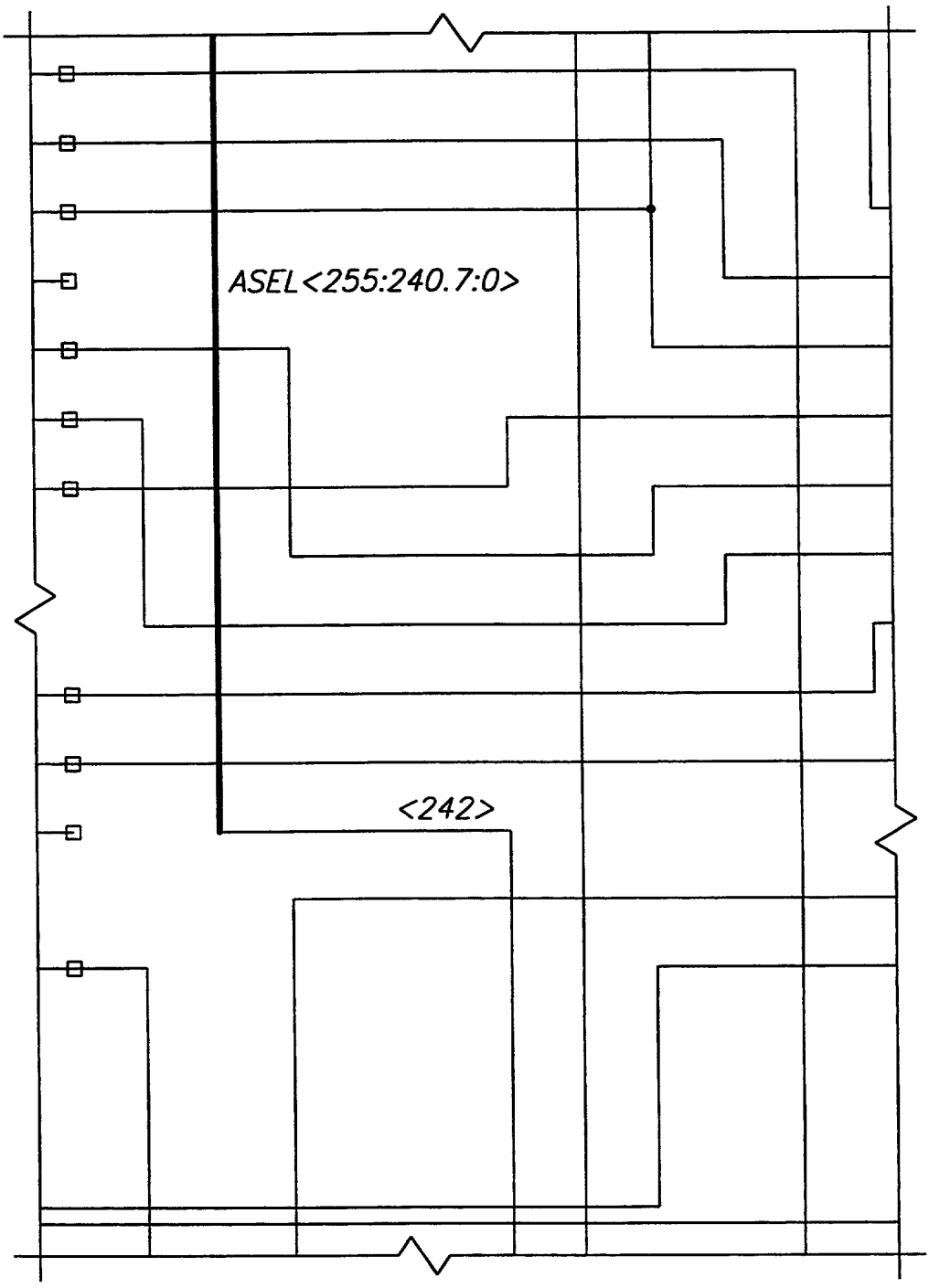


Fig 6CF

US6252595 - 05-26-2001

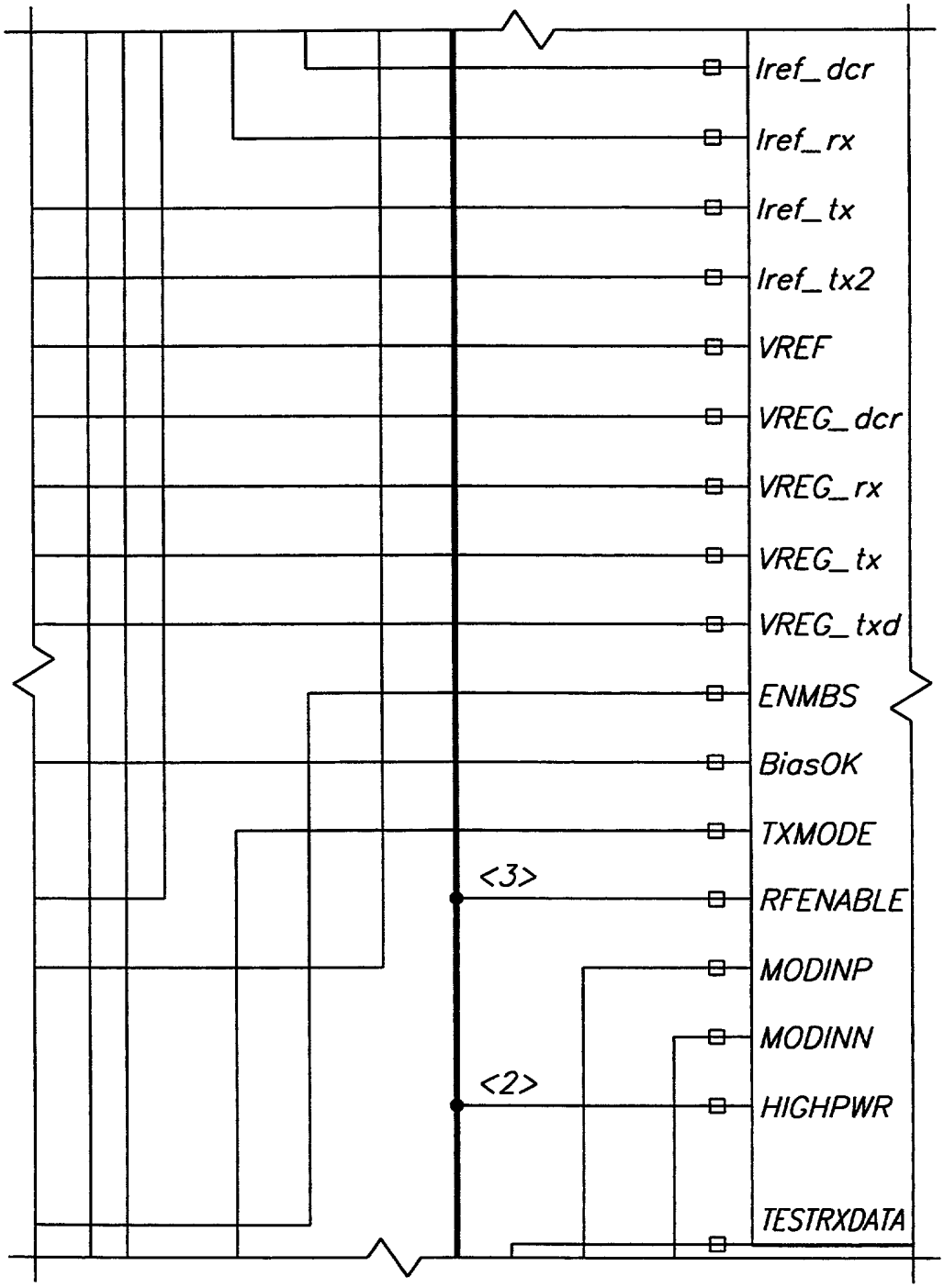

Iref_dcr
Iref_rx
Iref_tx
Iref_tx2
VREF
VREG_dcr
VREG_rx
VREG_tx
VREG_txd
ENMBS
BiasOK
TXMODE
<3>
RFENABLE
MODINP
MODINN
<2>
HIGHPWR
TESTRXDATA

Fig 6C6

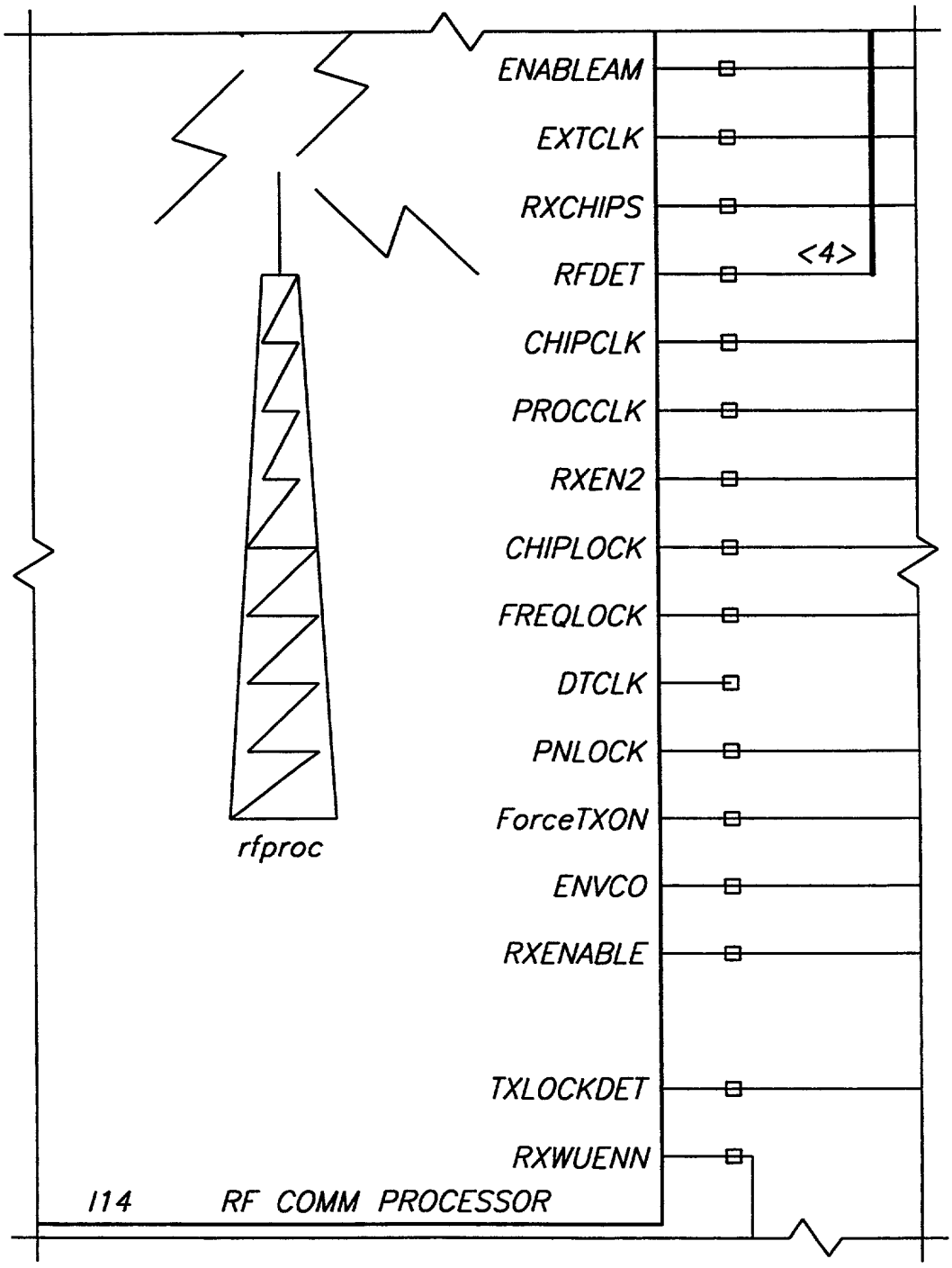

ENABLEAM
EXTCLK
RXCHIPS
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RFDET
CHIPCLK
PROCCLK
RXEN2
CHIPLOCK
FREQLOCK
DTCLK
PNLOCK
ForceTXON
ENVCO
RXENABLE
TXLOCKDET
RXWUENN
rfproc
114
RF COMM PROCESSOR

FIG 6CH

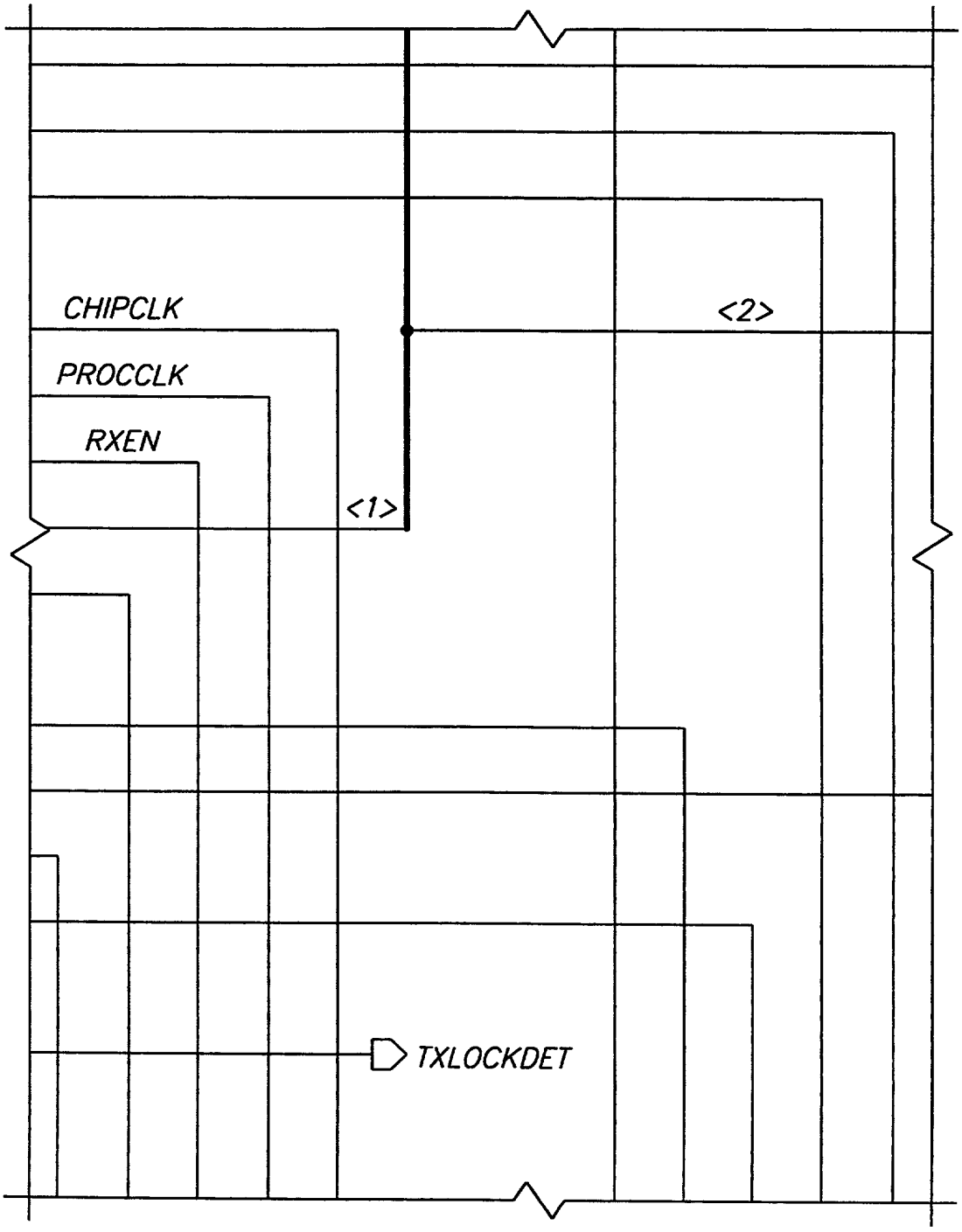


Fig 6C II

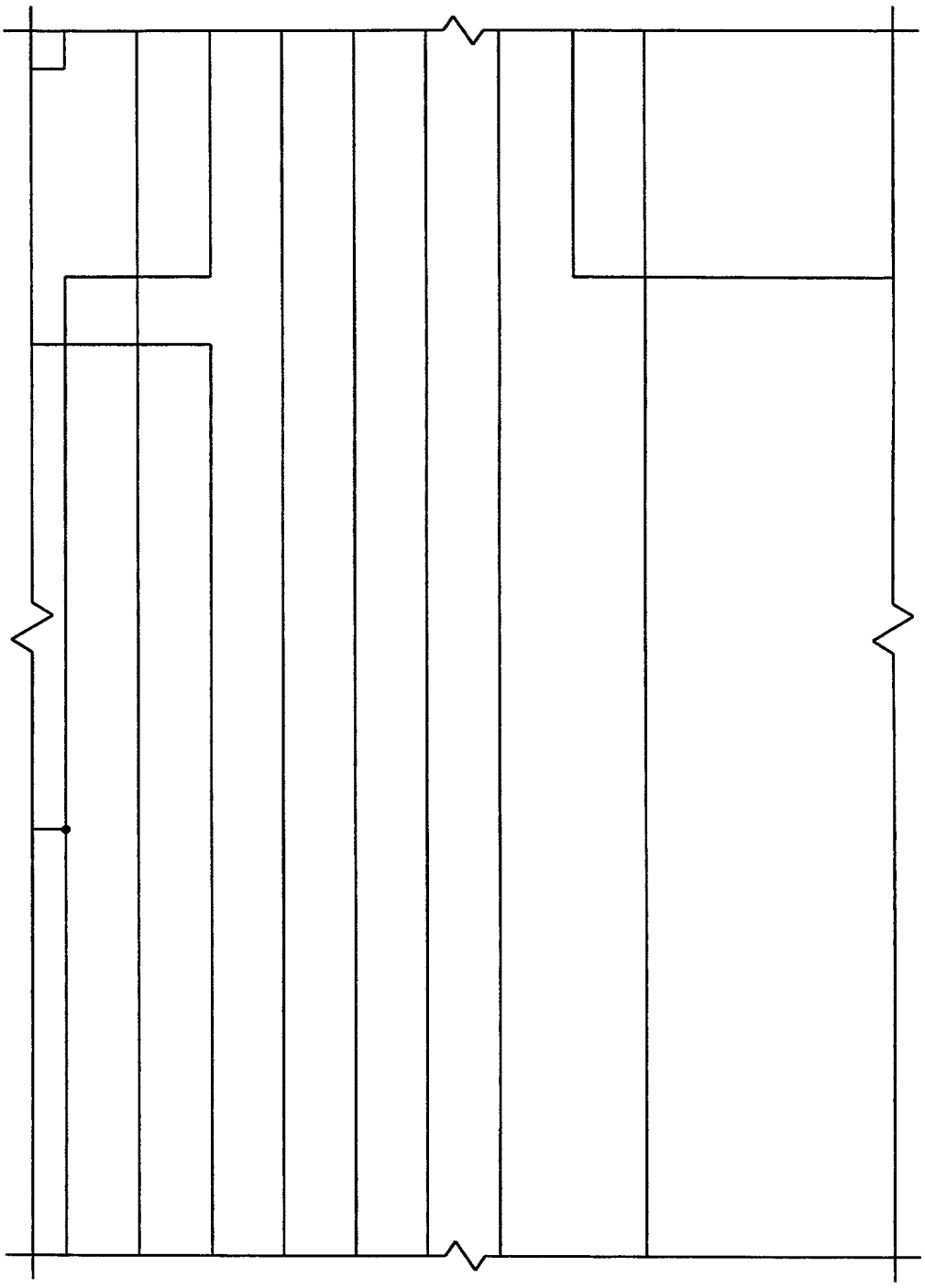


Fig 6Cd

Document Evidence - Do Not Copy

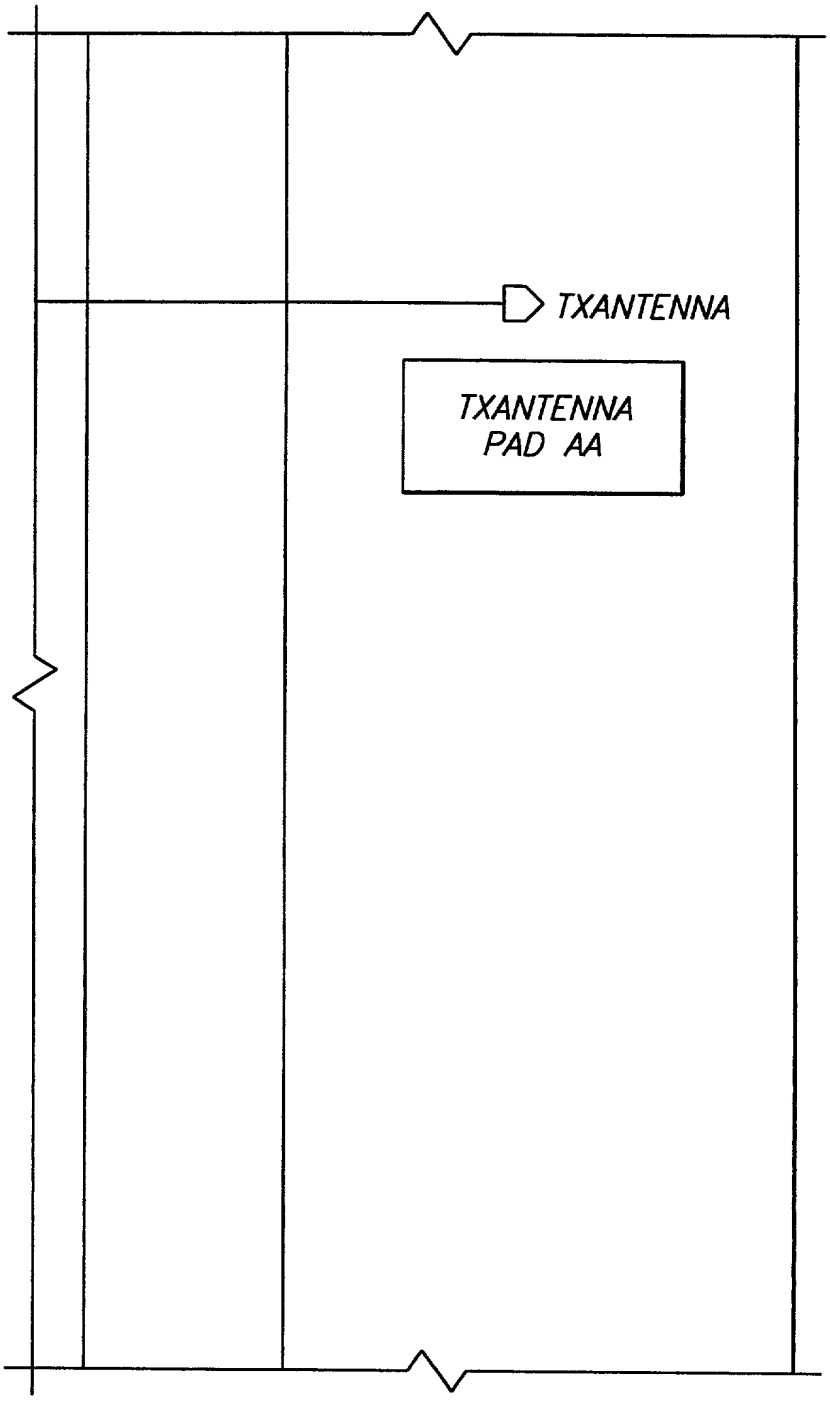


Fig 6CK

19 SEP 95 15:41 95/09/19 15:41:59

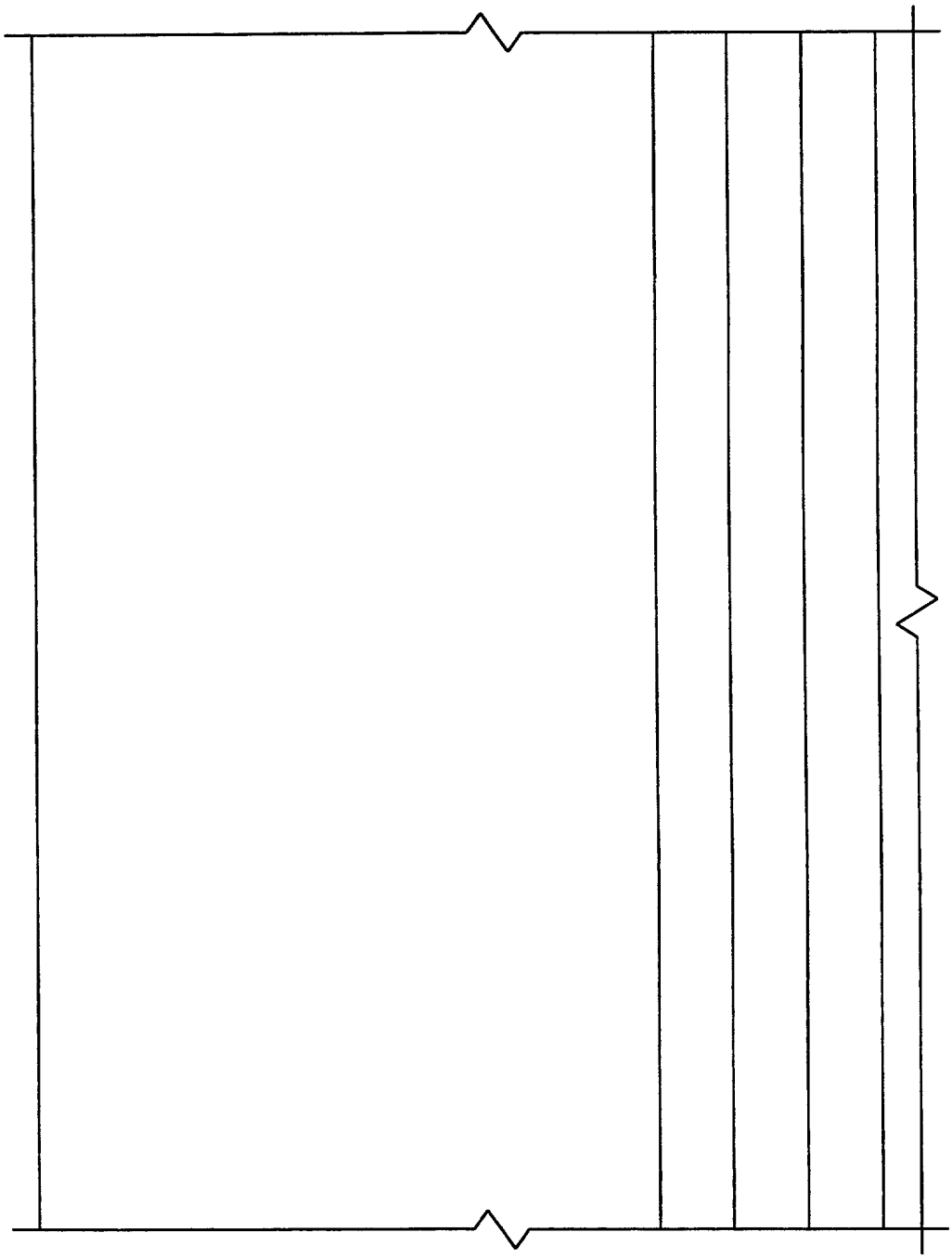


Fig 6DA

0982605 EP 0 254 404

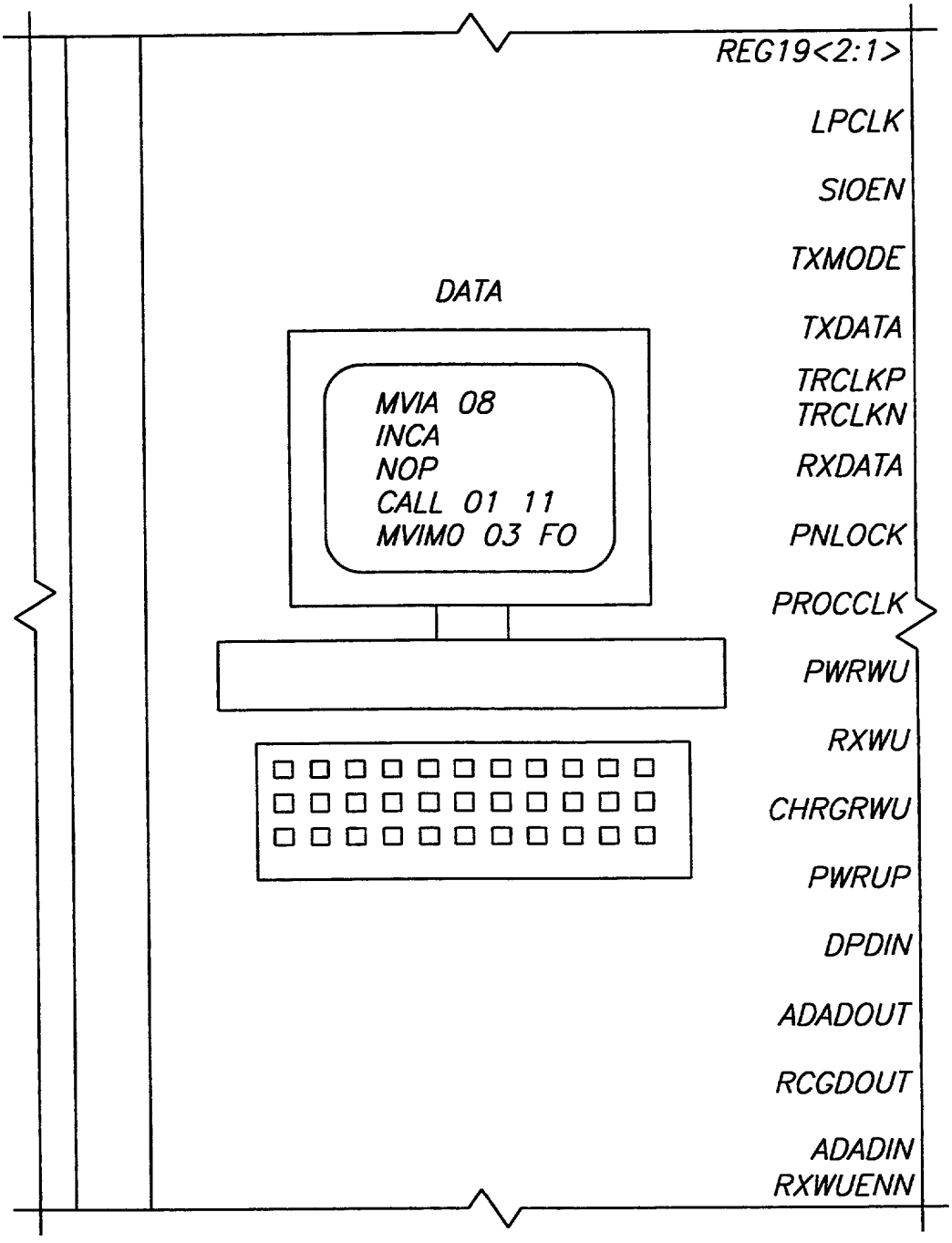

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LPCLK
SIOEN
TXMODE
DATA
TXDATA
TRCLKP
TRCLKN
MVIA 08
INCA
NOP
CALL 01 11
MVIMO 03 FO
RXDATA
PNLOCK
PROCCLK
PWRWU
RXWU
CHRGRWU
PWRUP
DPDIN
ADADOUT
RCGDOUT
ADADIN
RXWUENN

Fig 608

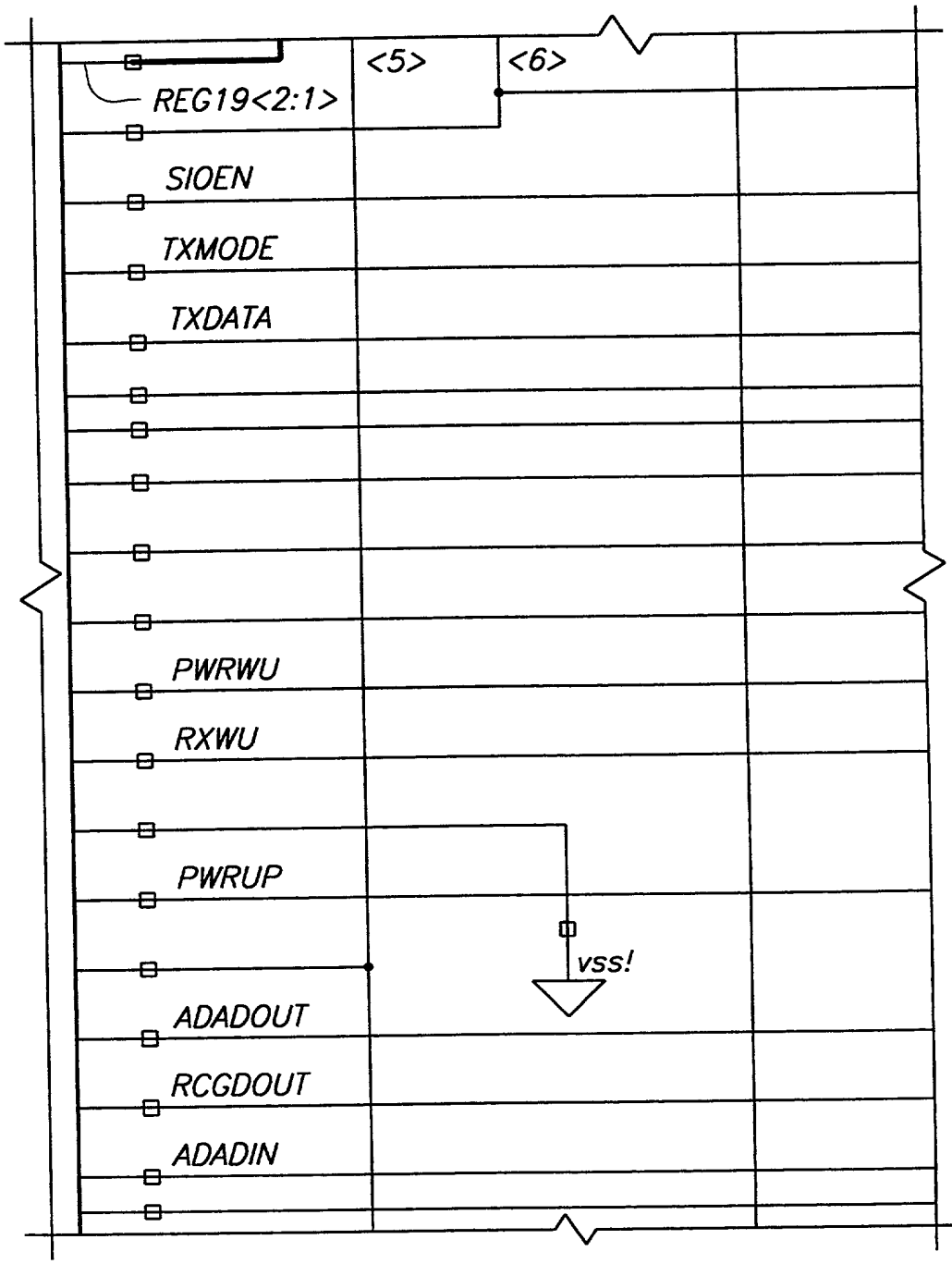

<5>
<6>
REG19<2:1>
SIOEN
TXMODE
TXDATA
PWRWU
RXWU
PWRUP
vss!
ADADOUT
RCGDOUT
ADADIN

Fig 6DC

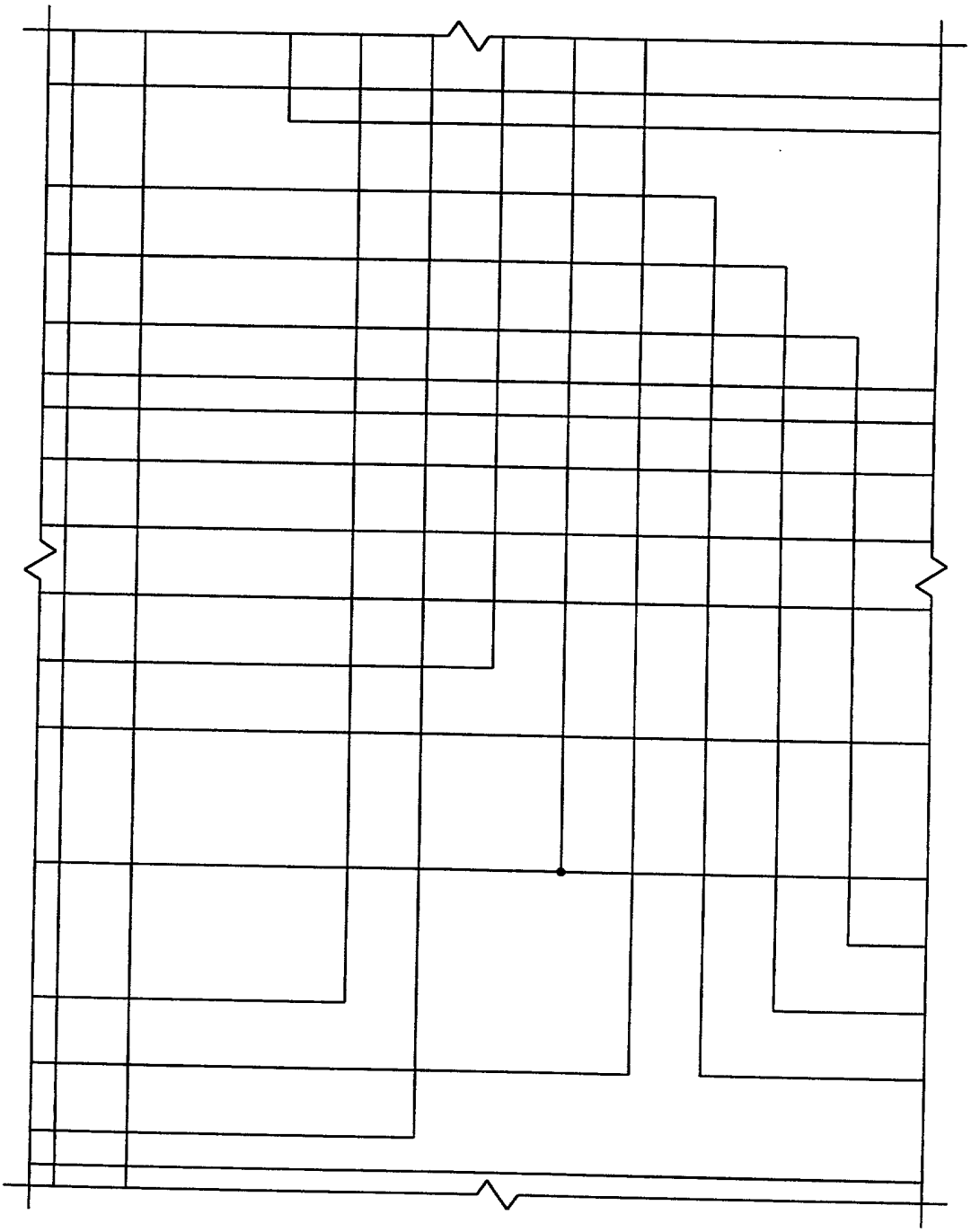


Fig 6D0

0960205 05-11-96

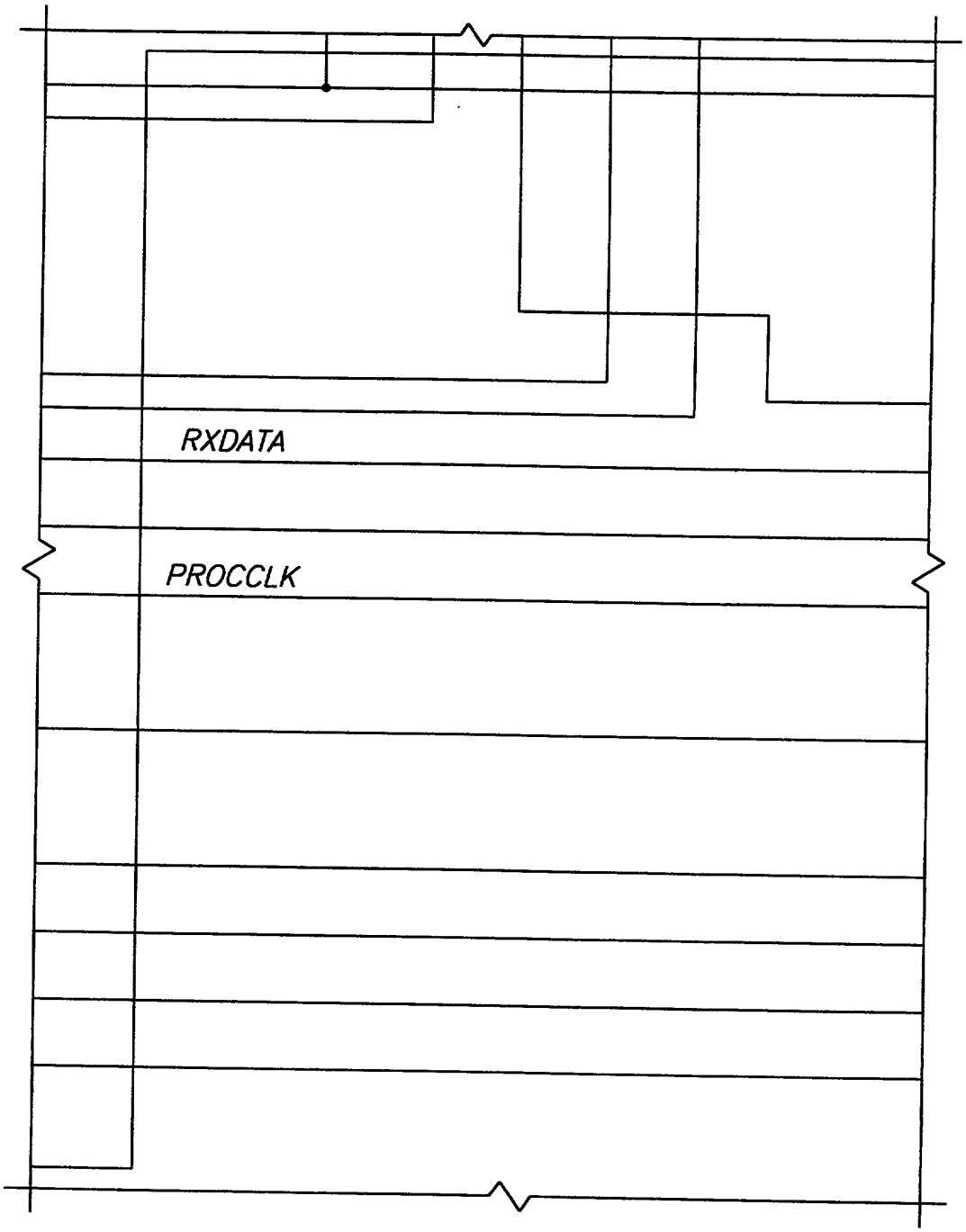


Fig 60E

GB 2 054 964 A

43/3273

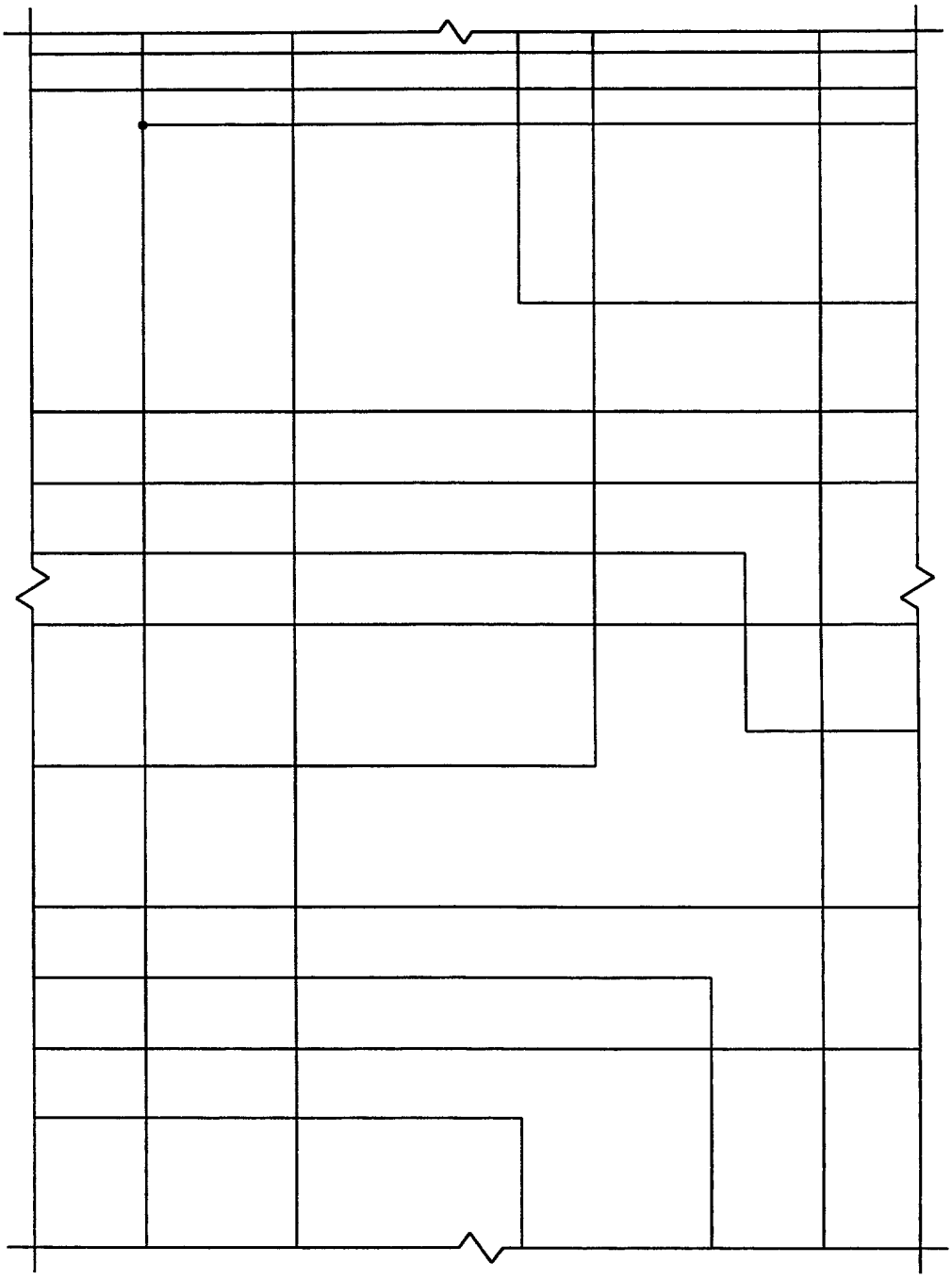
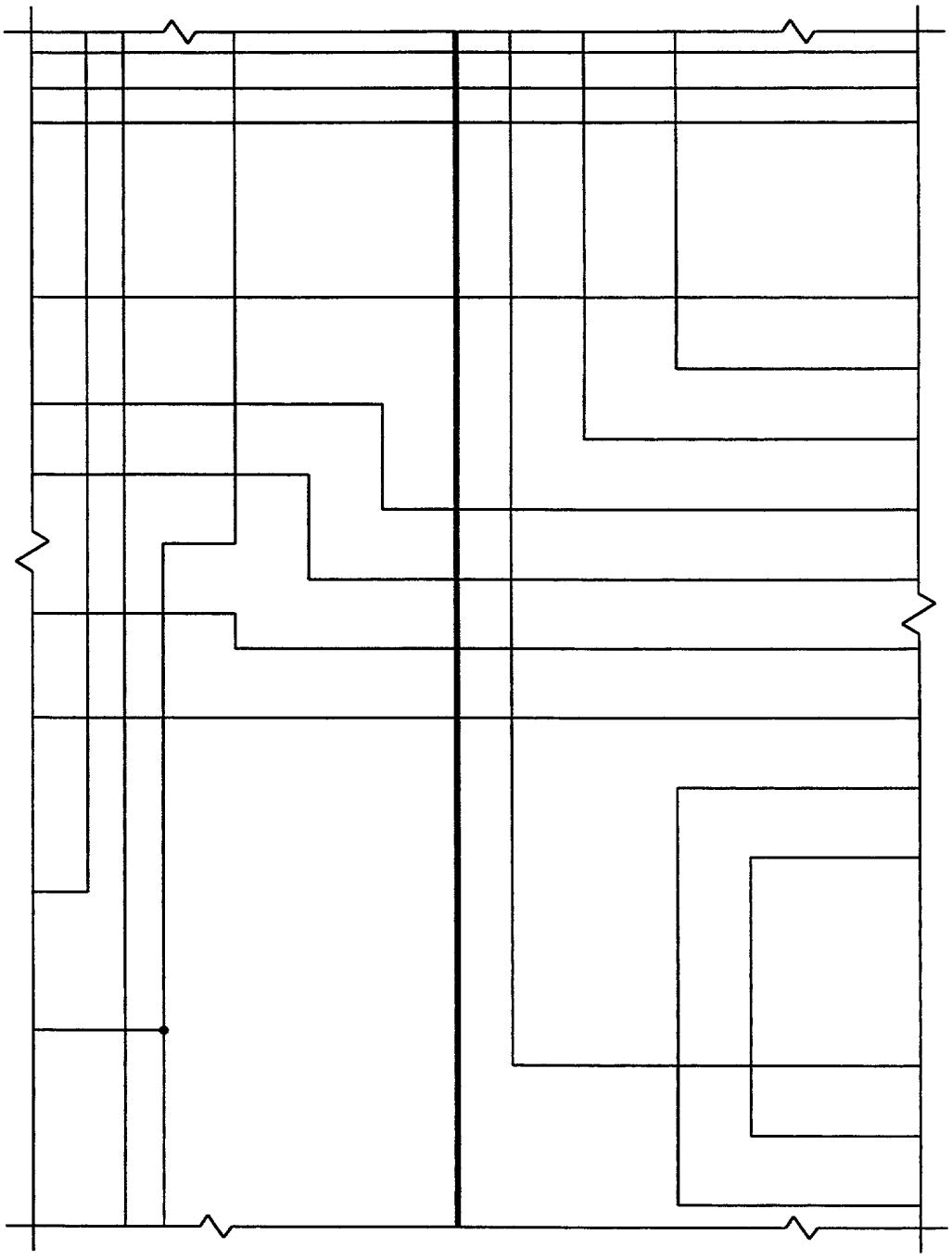


Fig 6DF



Фиг 606

РЕПОЗИТОРИЙ ГГТУ им. П.О. Сухого

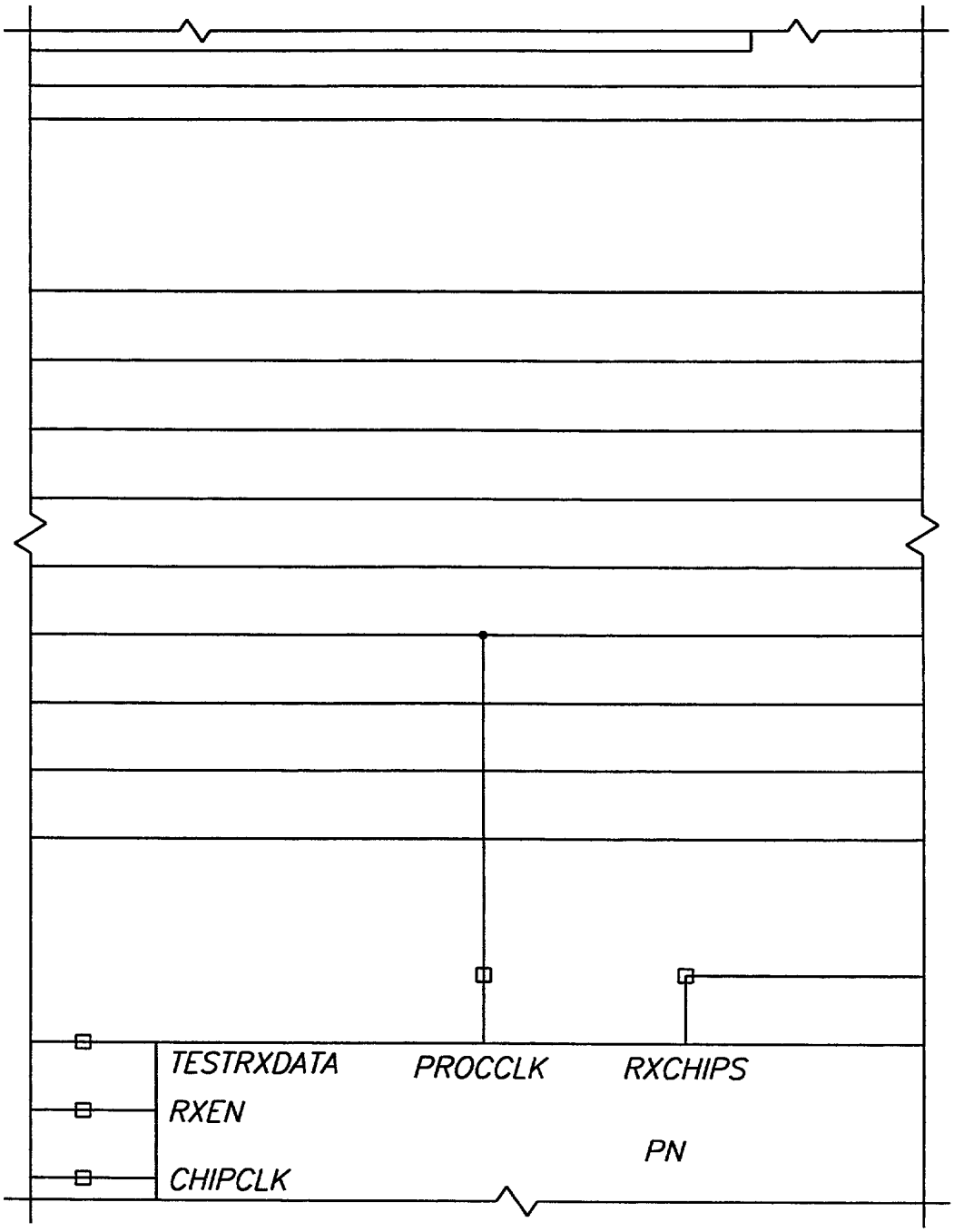


Fig 6DH

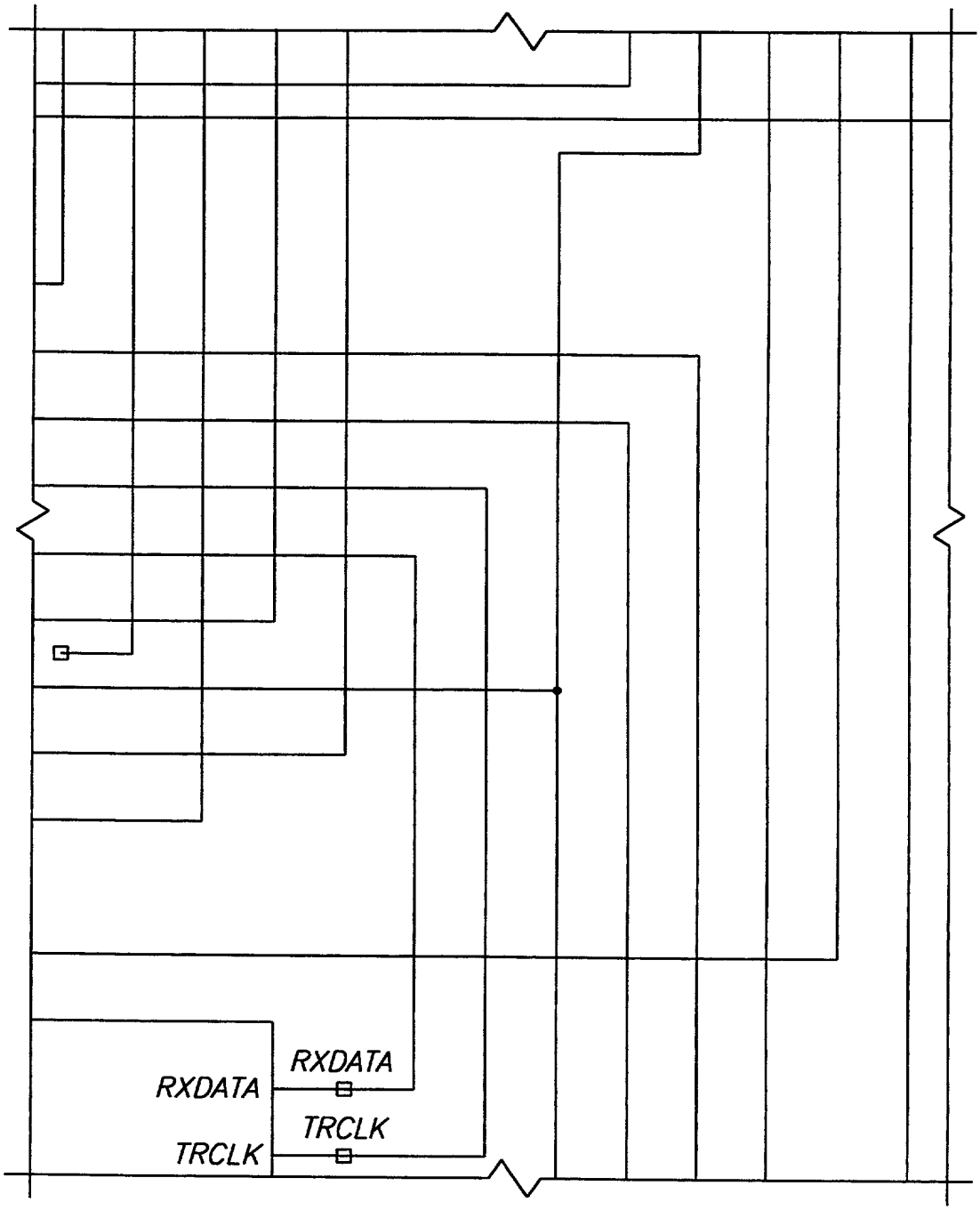


Fig 6D II

EP 1 059 594 A1

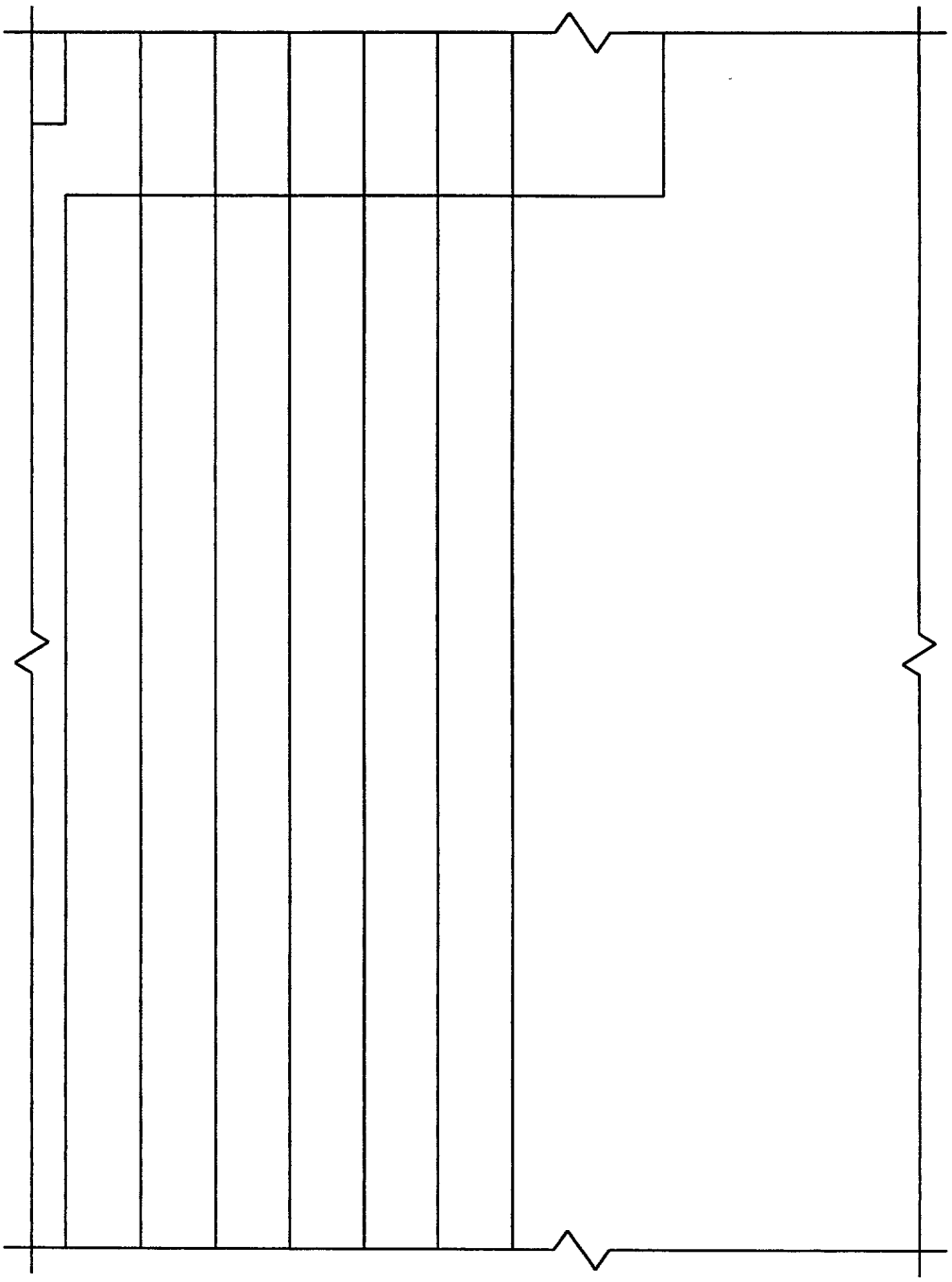


Fig 6D.1

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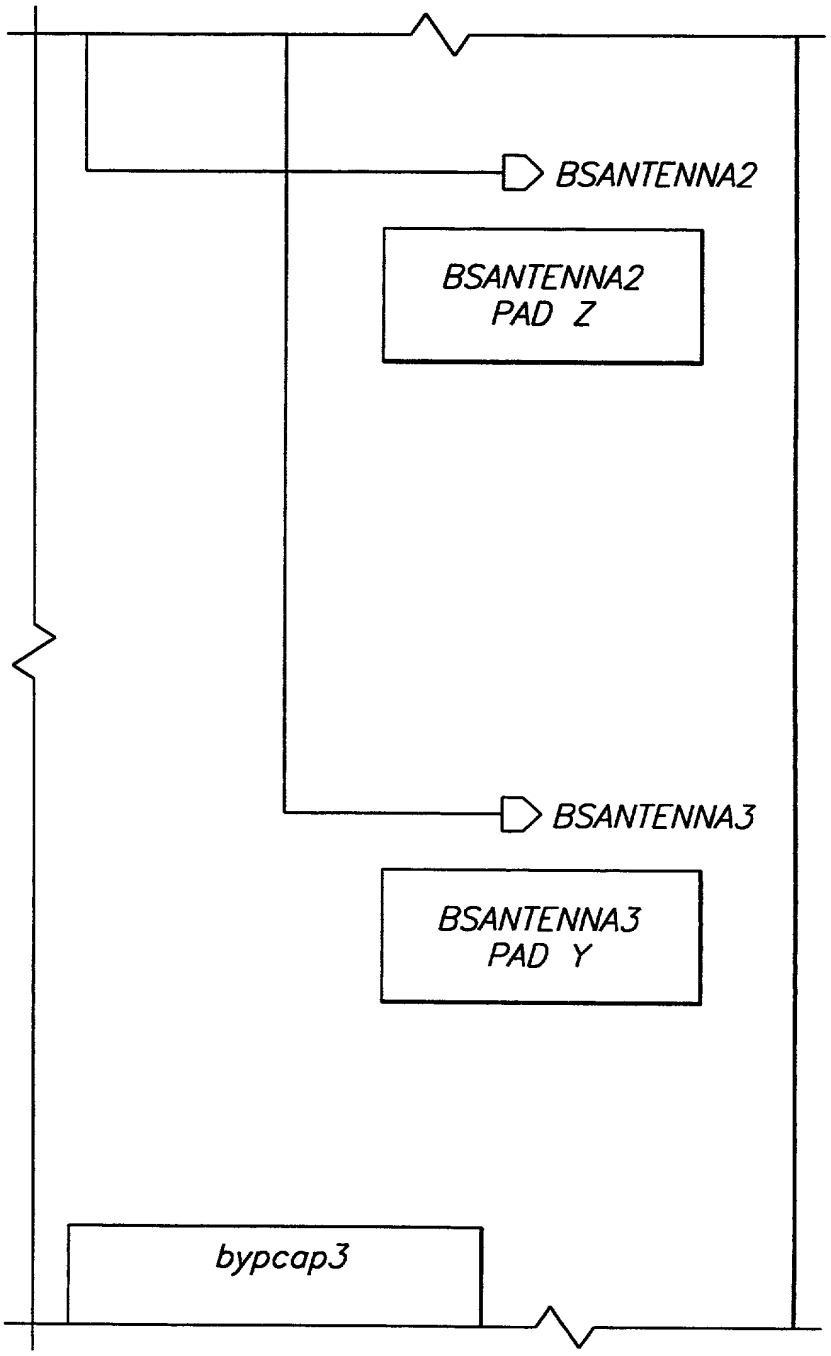

BSANTENNA2
BSANTENNA2
PAD Z
BSANTENNA3
BSANTENNA3
PAD Y
bypcap3

Fig 6DK

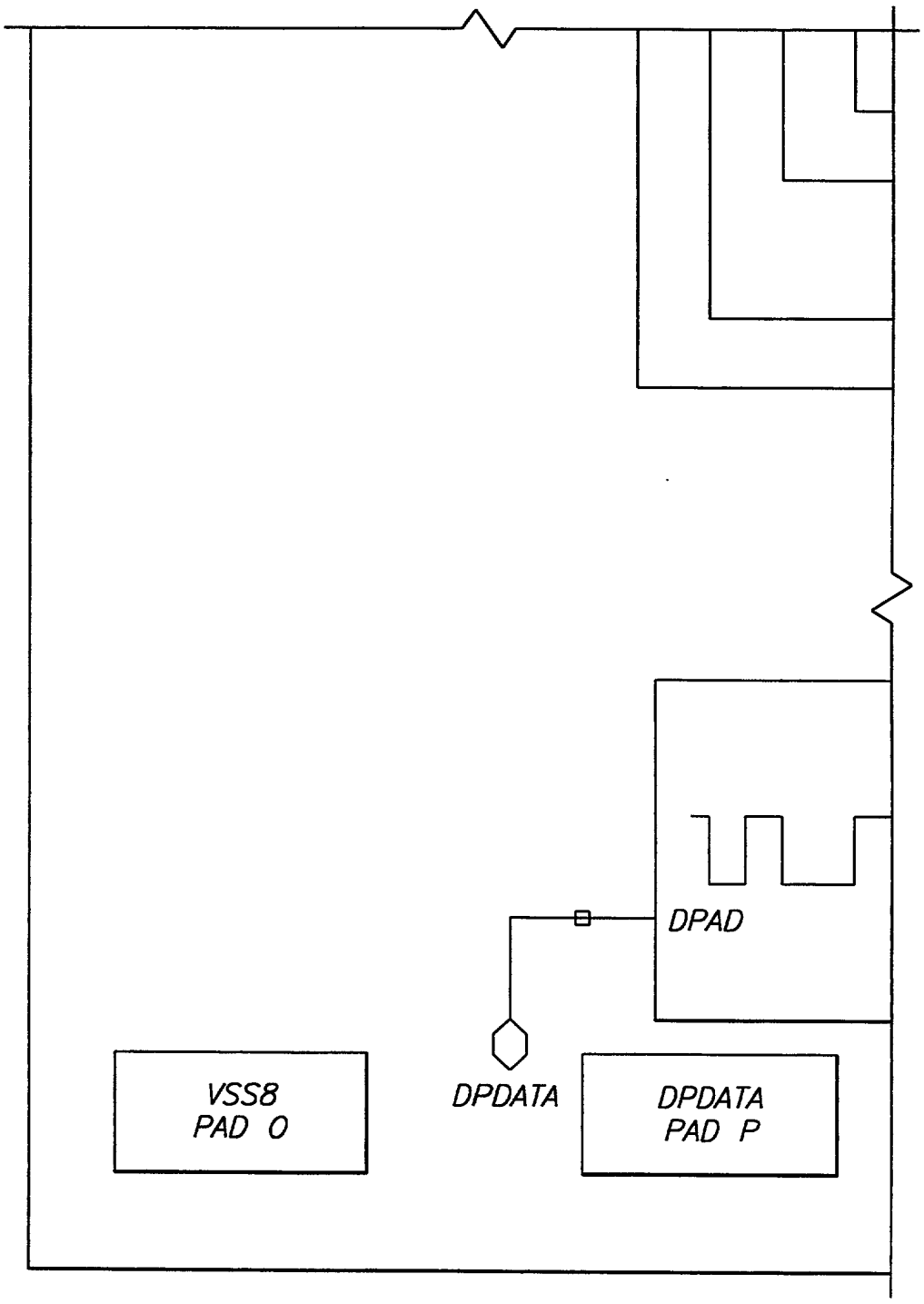


Fig 6EA

09/15/2005 15:14:01

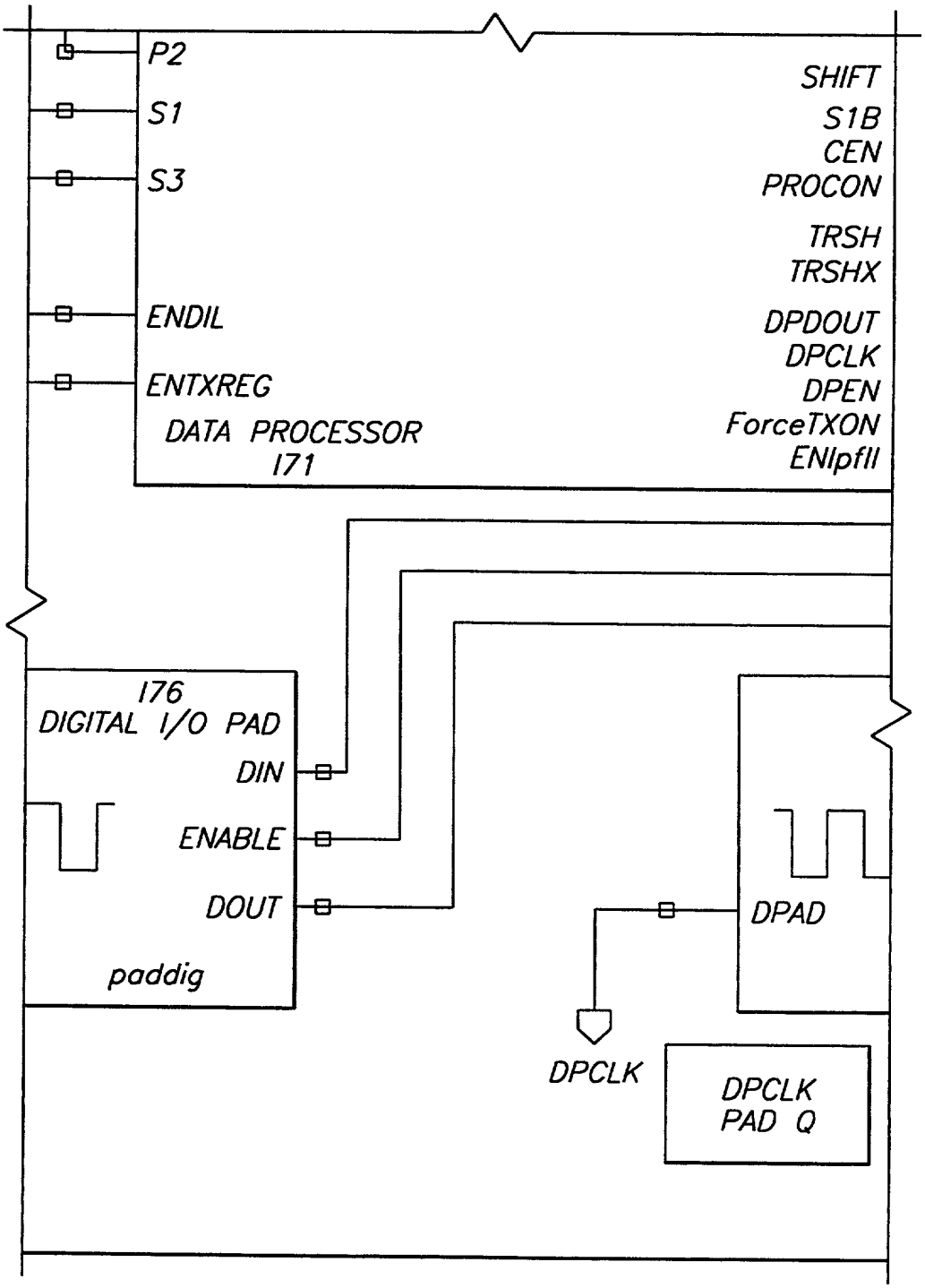
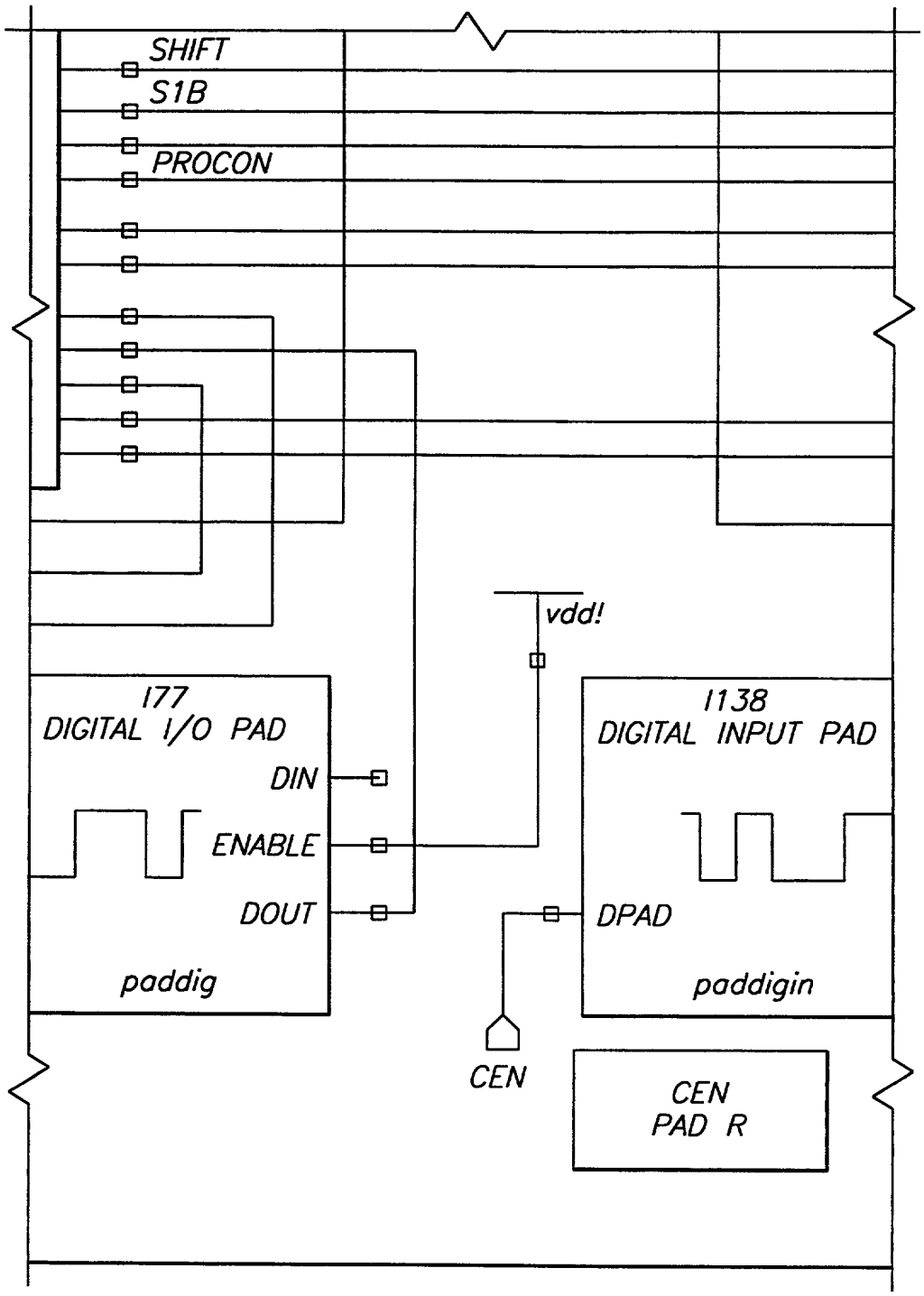

P2
S1
S3
ENDIL
ENTXREG
DATA PROCESSOR
171
SHIFT
S1B
CEN
PROCON
TRSH
TRSHX
DPDOUT
DPCLK
DPEN
ForceTXON
ENIpfII
176
DIGITAL I/O PAD
DIN
ENABLE
DOUT
paddig
DPAD
DPCLK
DPCLK
PAD Q

Fig 6EB



Replacement Sheet

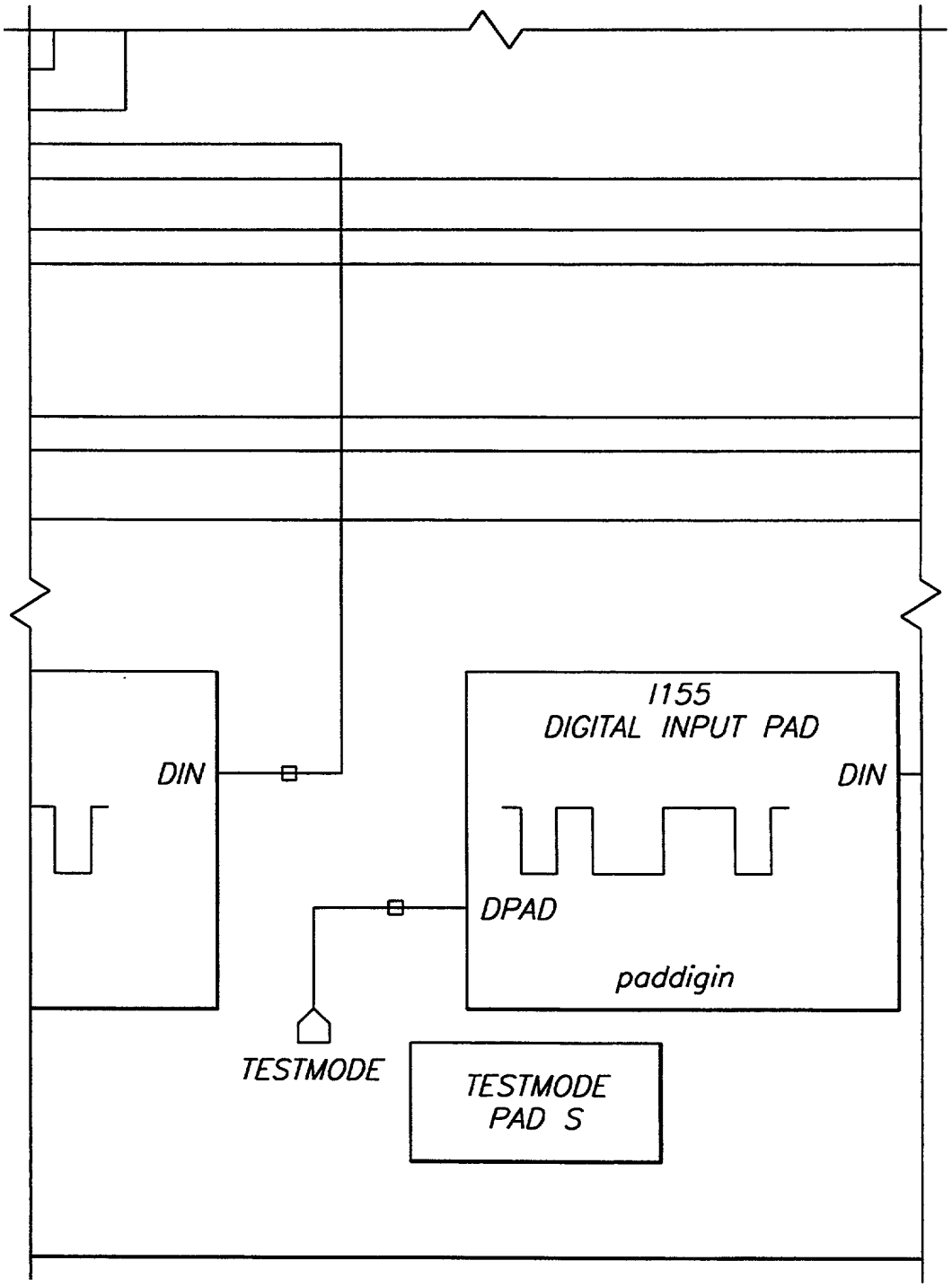


Fig 6ED

Patent Document - 05/02/99

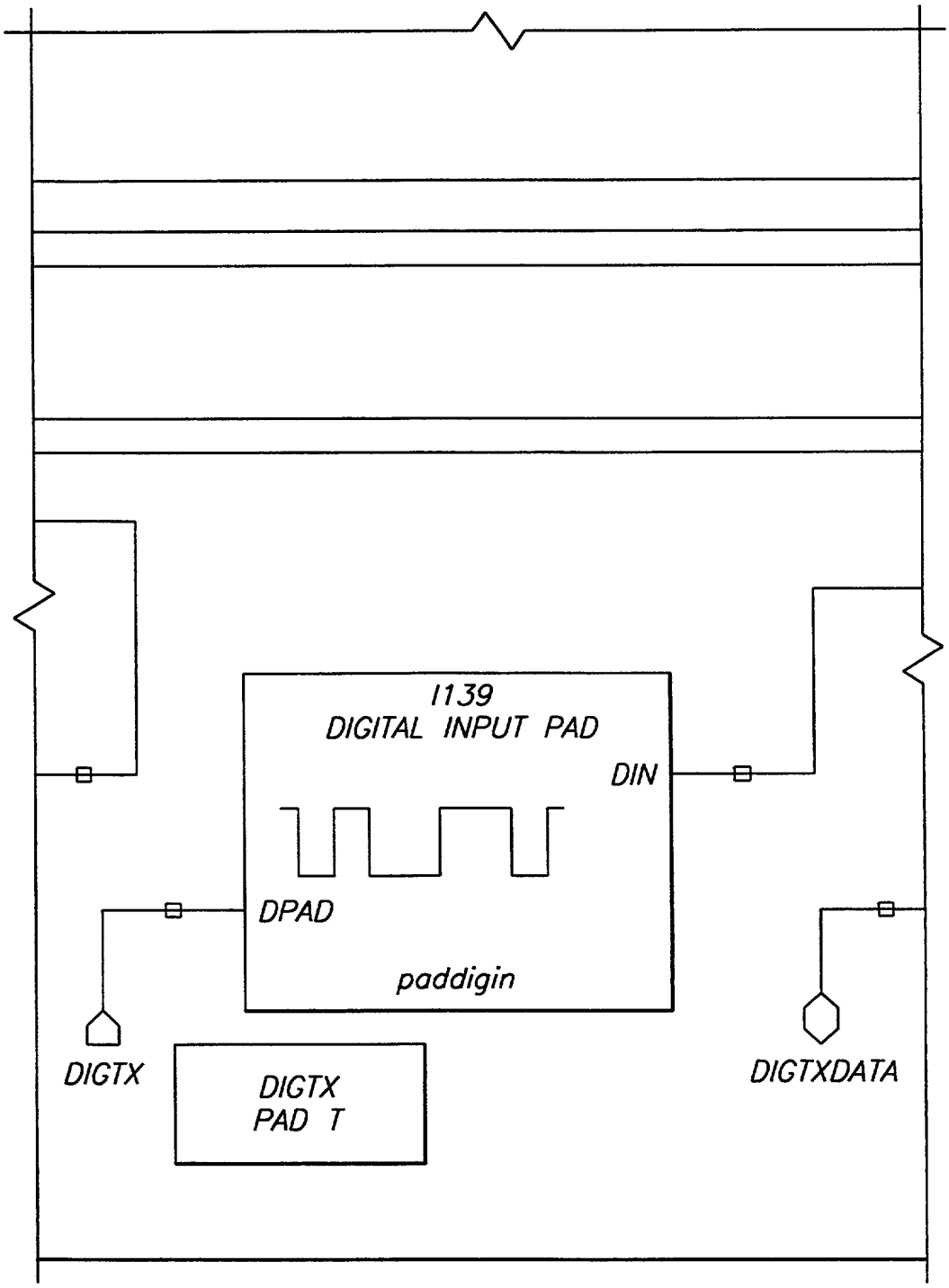

1139
DIGITAL INPUT PAD
DIN
DPAD
paddigin
DIGTX
DIGTX
PAD T
DIGTXDATA

Fig 6E

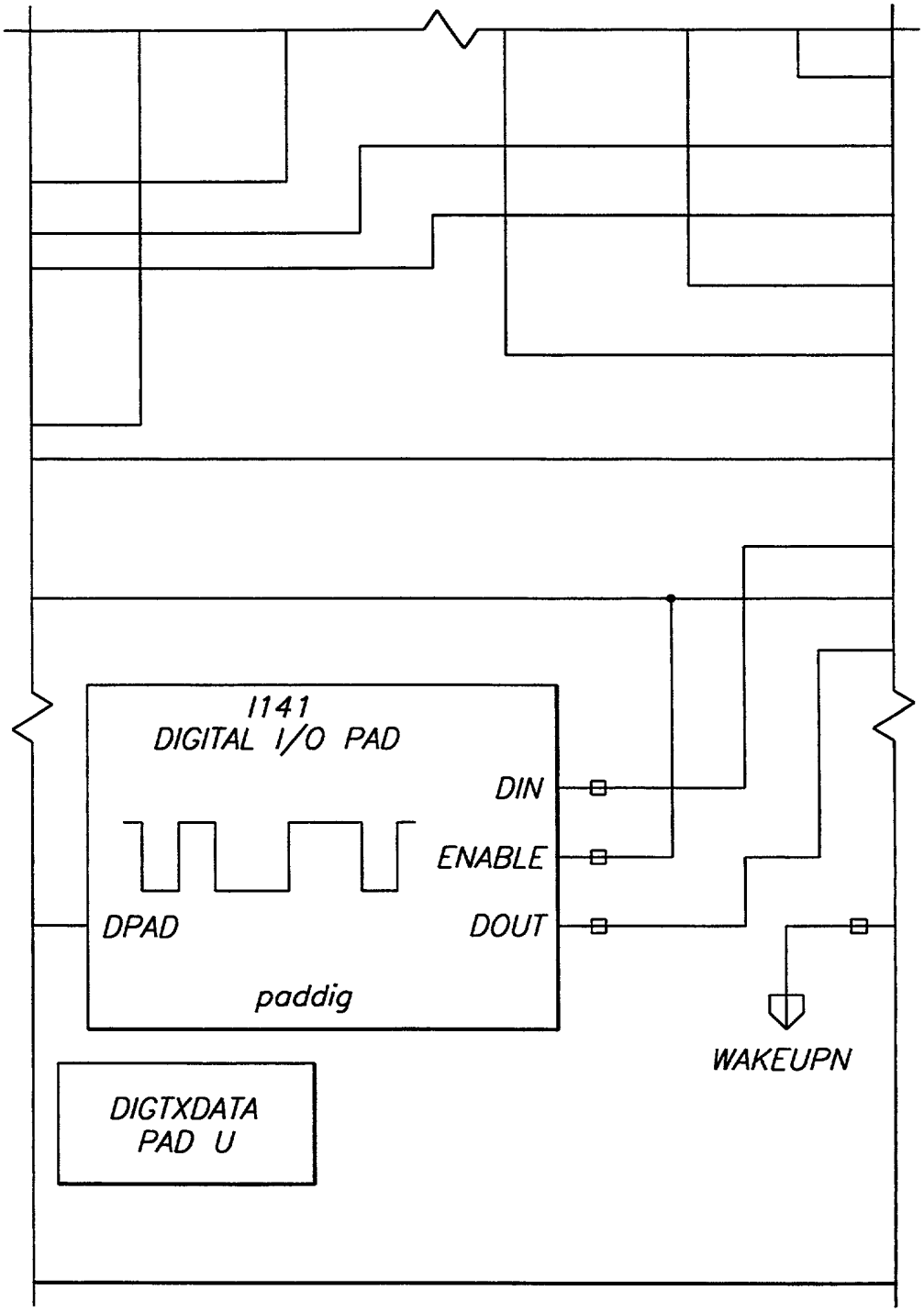


Fig 6EF

EP 0 962 850 A1

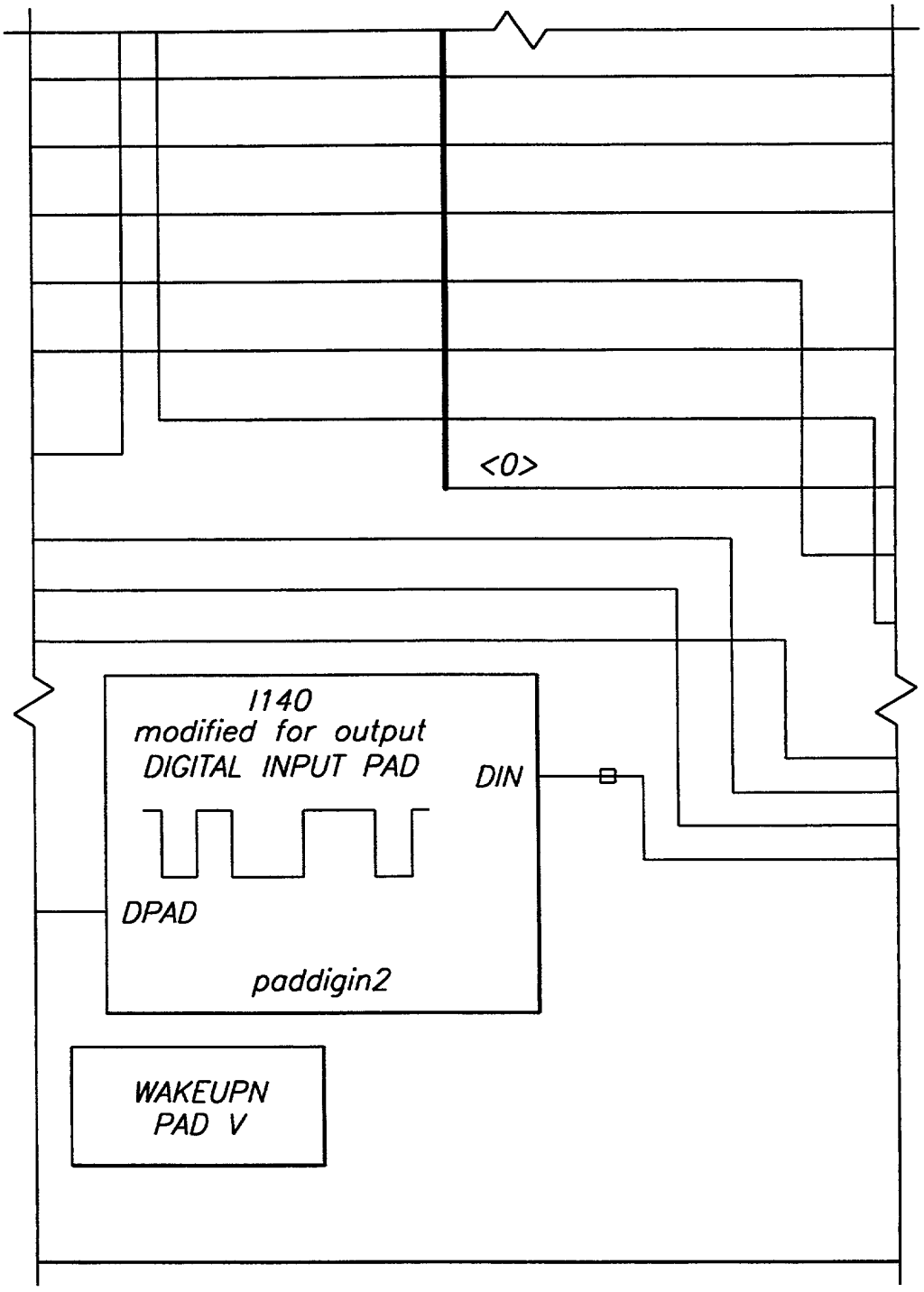


Fig 6E6

09/22/2005, EAST Version: 2.0.1.4

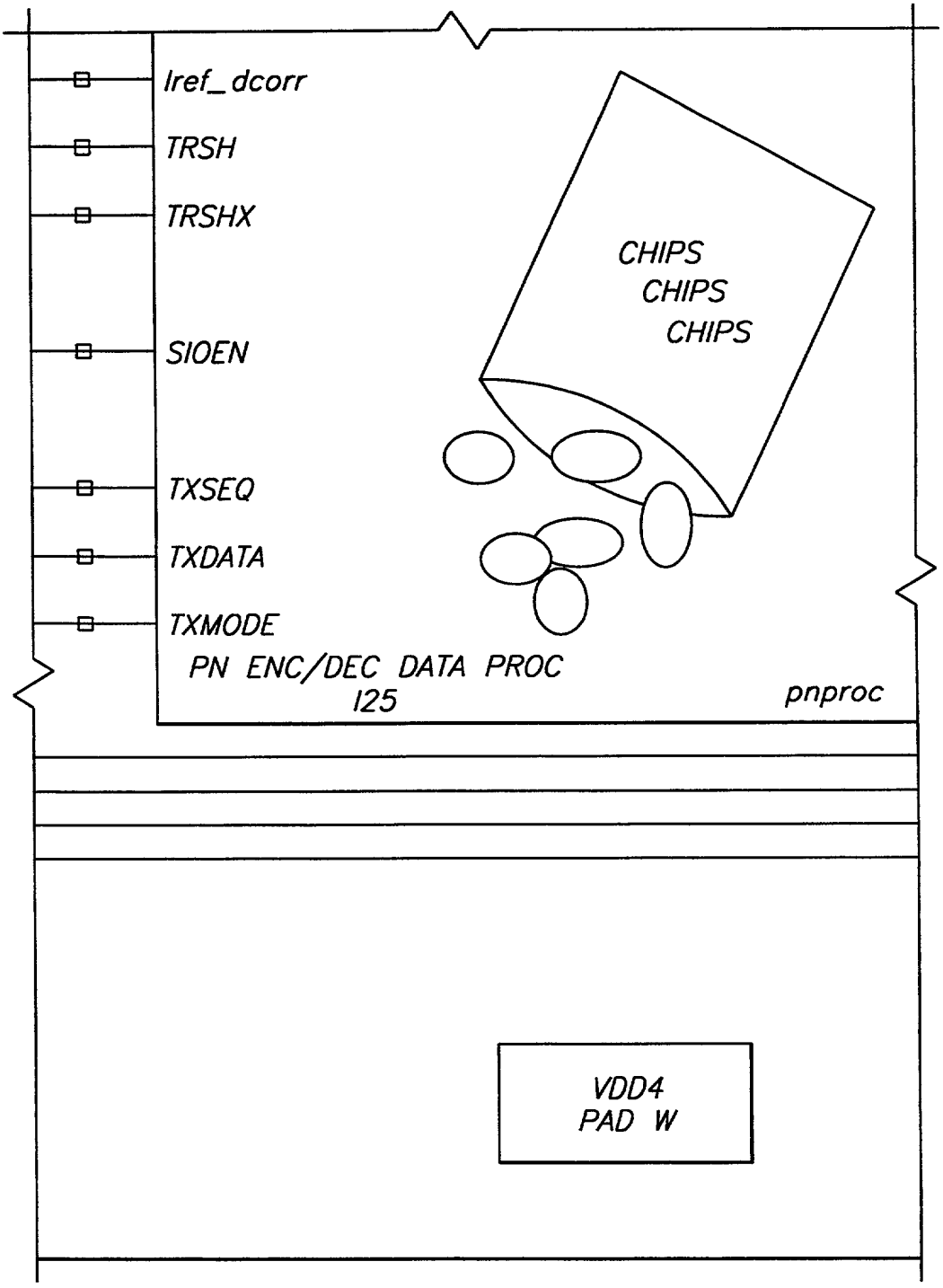

Iref_dcorr
TRSH
TRSHX
SIOEN
TXSEQ
TXDATA
TXMODE
CHIPS
CHIPS
CHIPS
PN ENC/DEC DATA PROC
125
pnproc
VDD4
PAD W

Fig 6EH

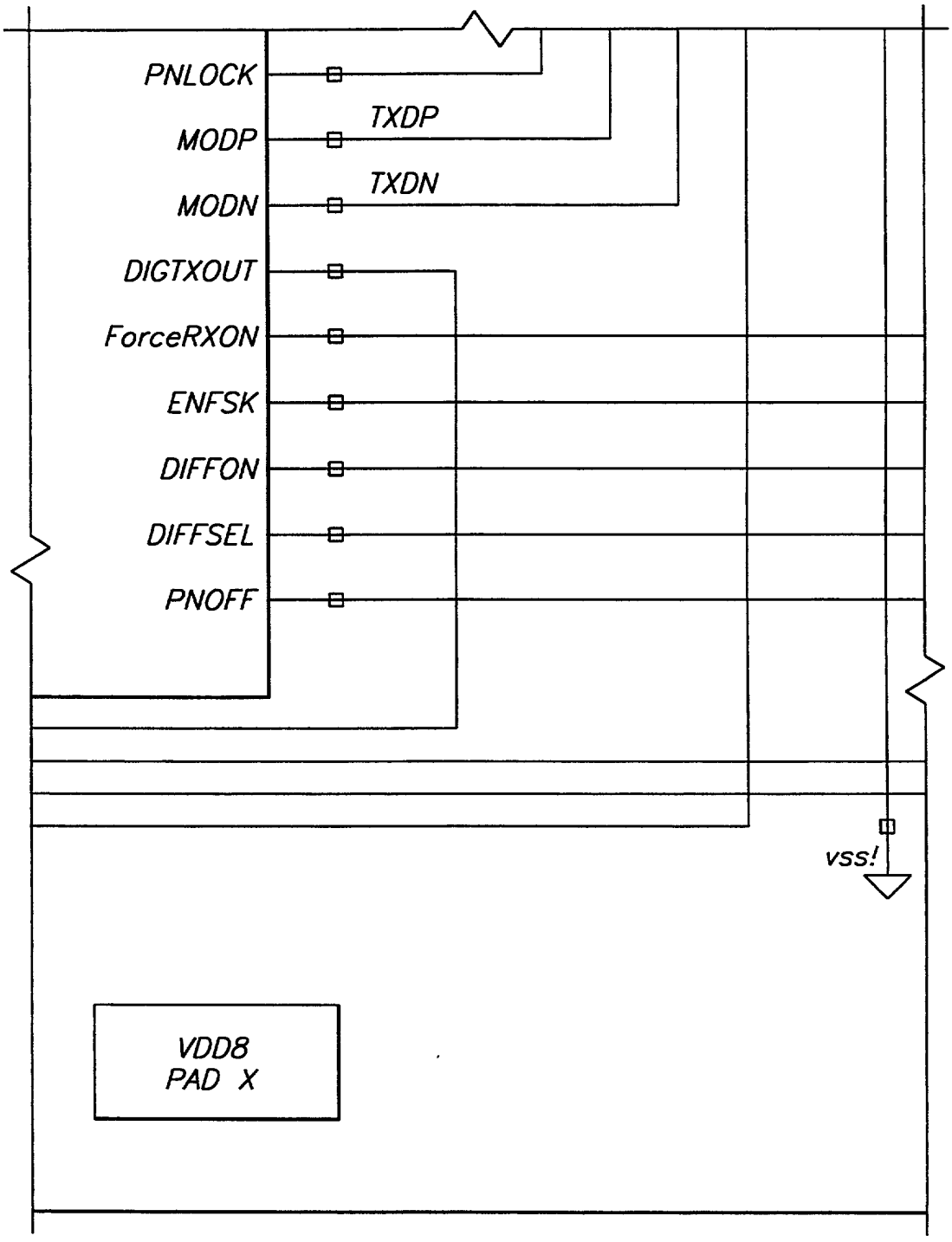
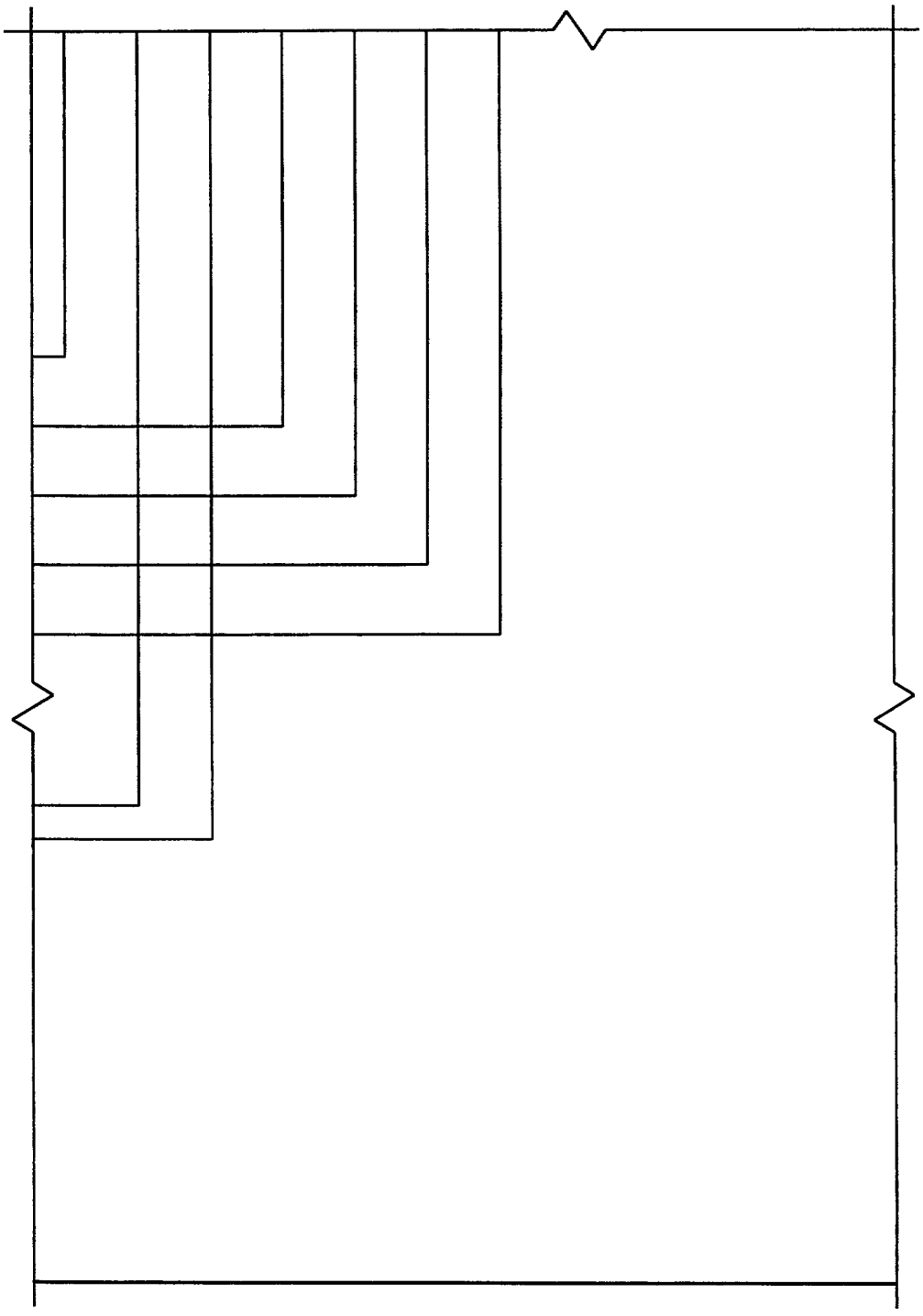


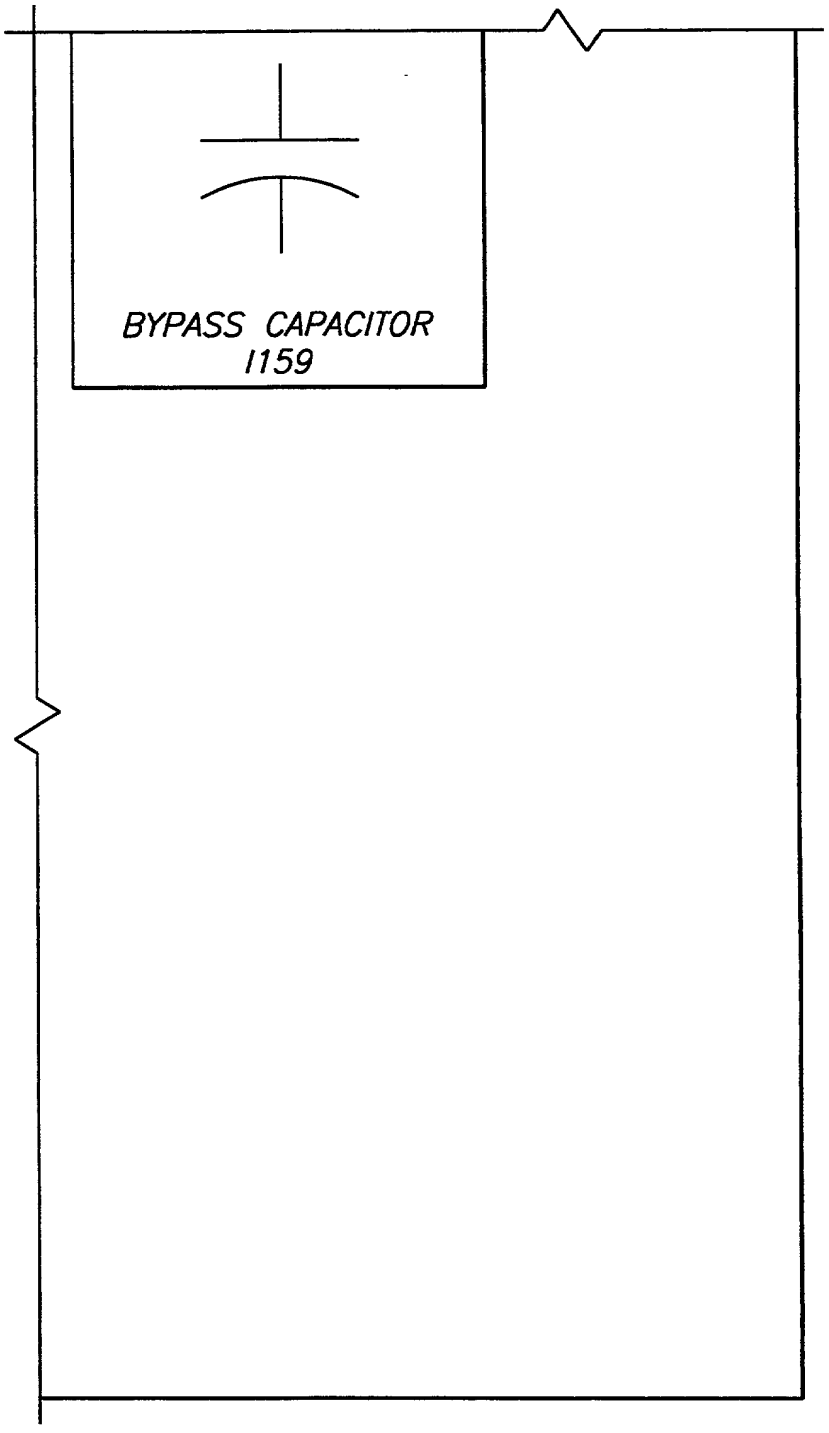
Fig 6E II

EP 1 596 523 A1 20051116



Фиг 6Е

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TOGEK

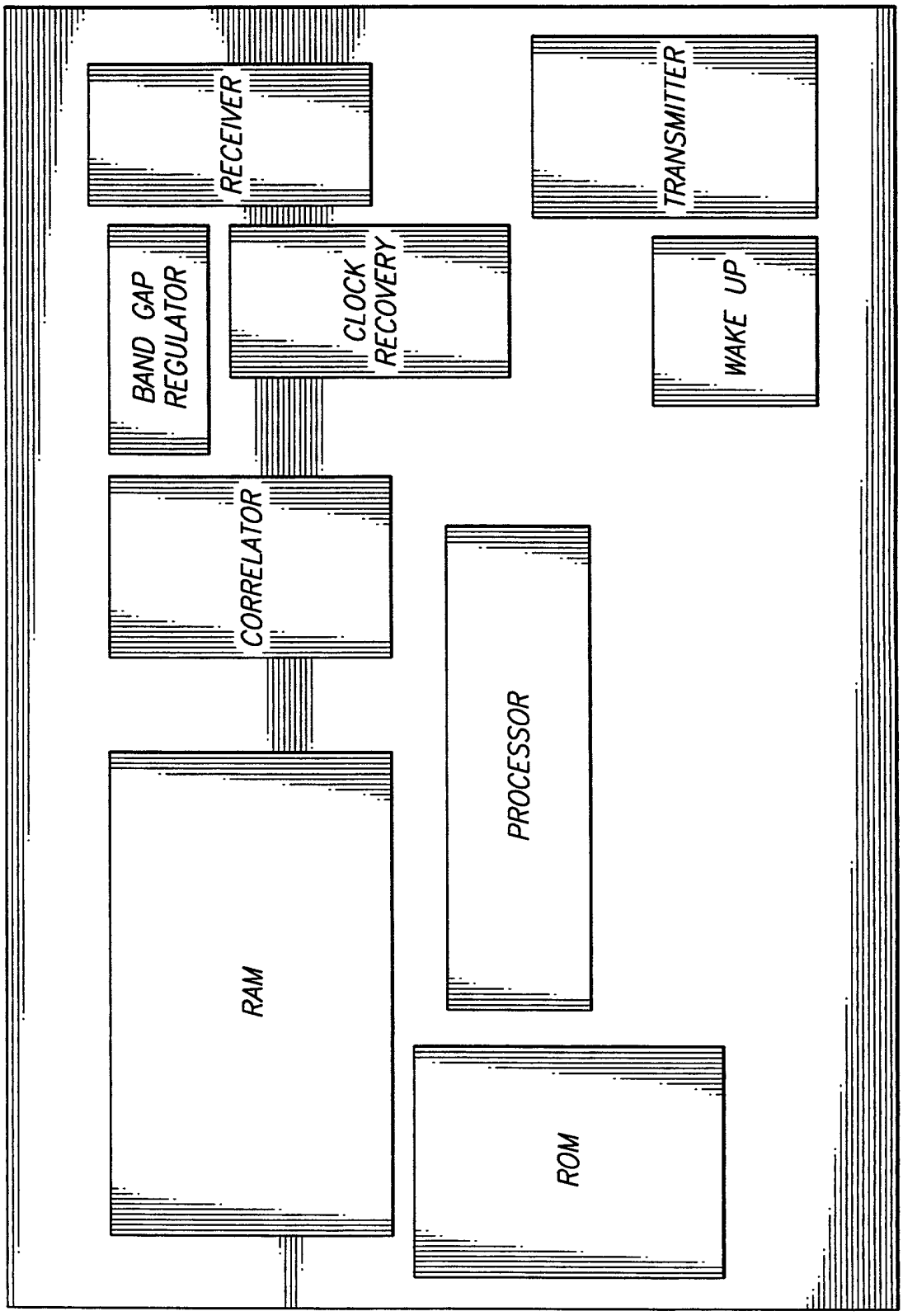
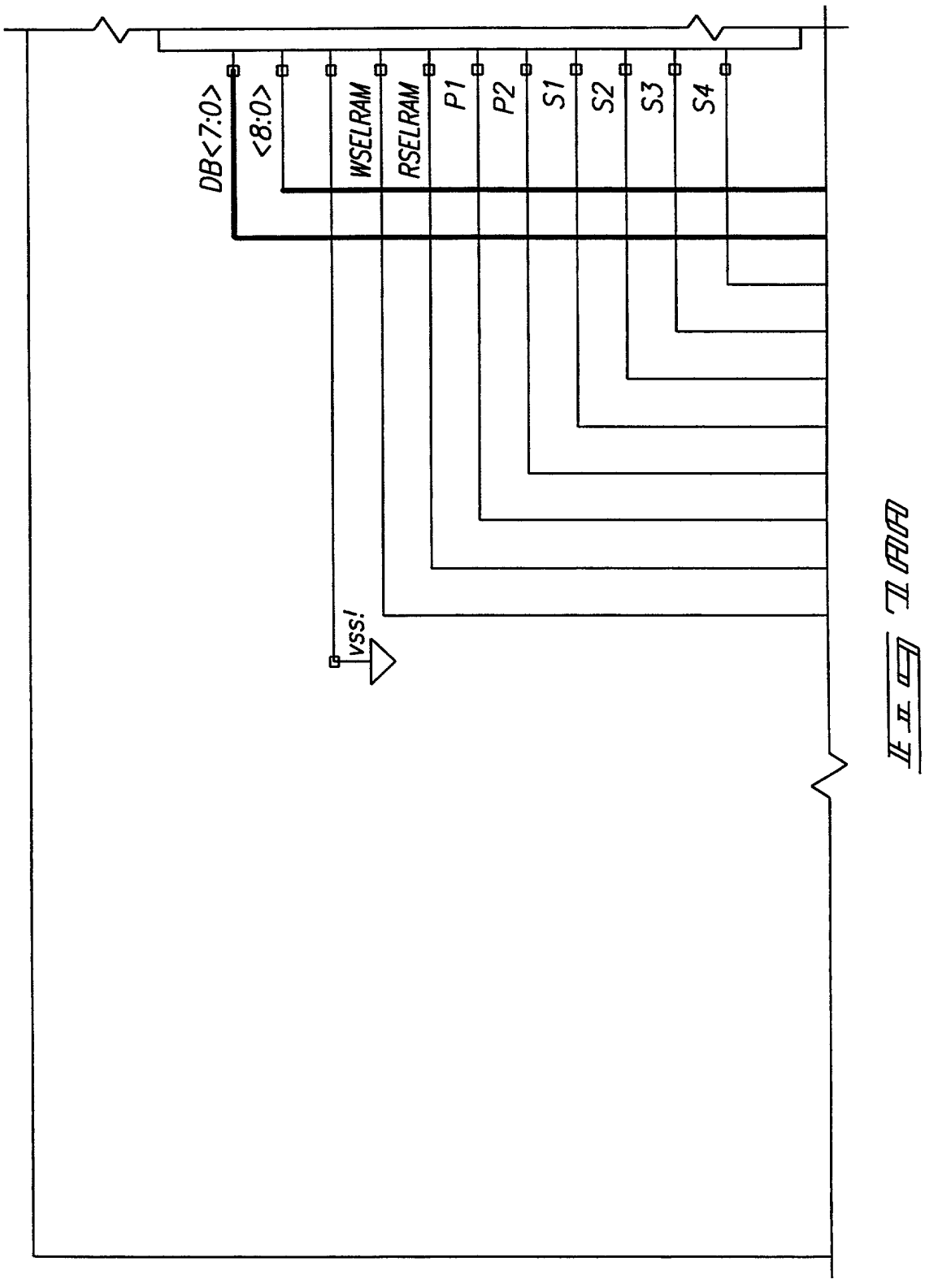


FIG 5.11

EP 1 545 025 A2

7AA	7AB								
7BA	7BB	7BC	7BD	7BE	7BF	7BG	7BH	7BI	7BJ
7CA	7CB	7CC	7CD	7CE	7CF	7CG	7CH	7CI	7CJ
7DA	7DB	7DC	7DD	7DE	7DF	7DG	7DH	7DI	7DJ
7EA	7EB	7EC	7ED	7EE	7EF	7EG	7EH	7EI	7EJ
7FA	7FB	7FC	7FD	7FE	7FF	7FG	7FH	7FI	7FJ
			7GD	7GE	7GF	7GG	7GH	7GI	7GJ
			7HD	7HE	7HF	7HG	7HH	7HI	7HJ

Fig. 7


DB<7:0>
<8:0>
WSELRAM
RSELRAM
P1
P2
S1
S2
S3
S4
vss!
VDD

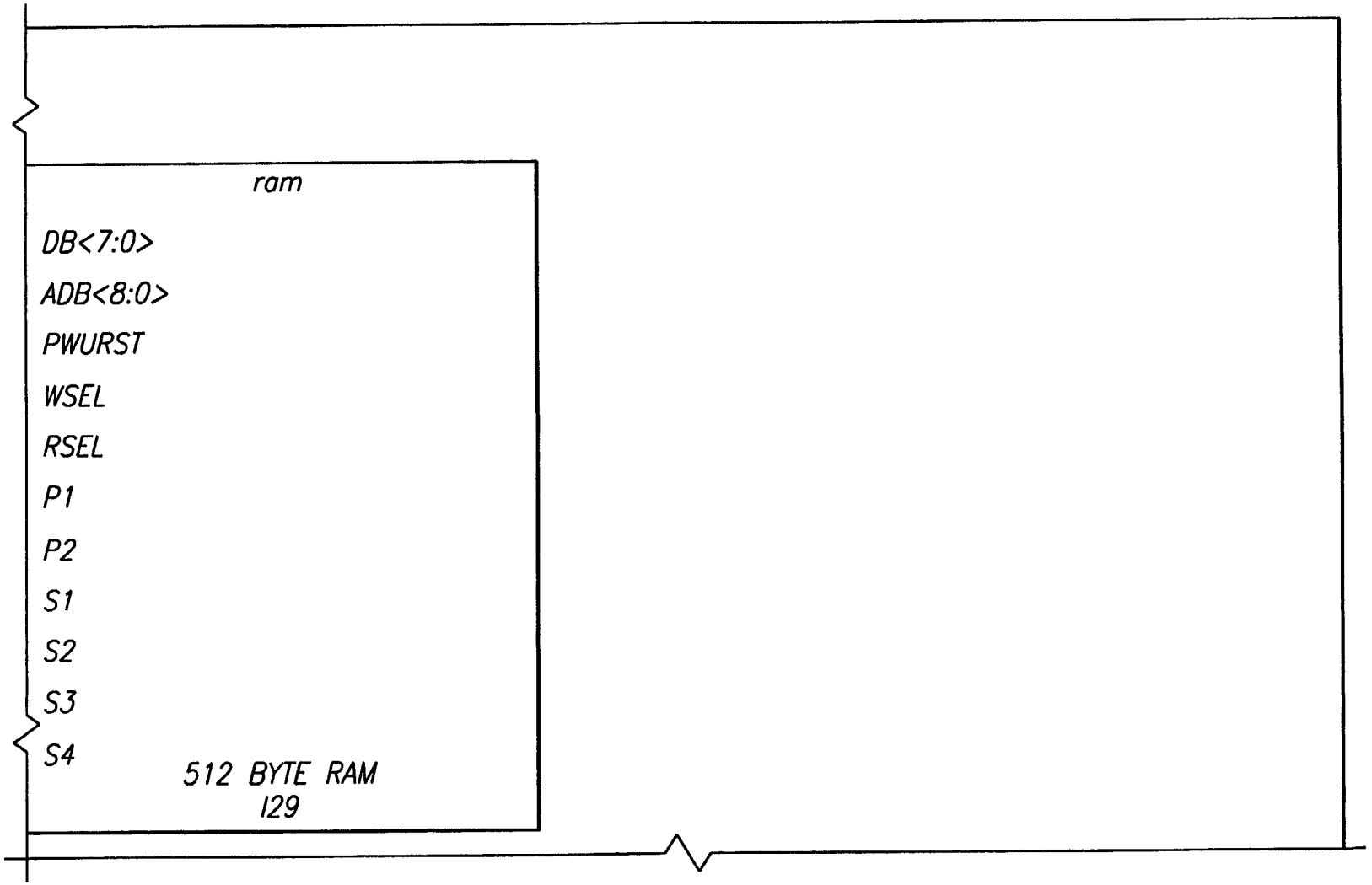
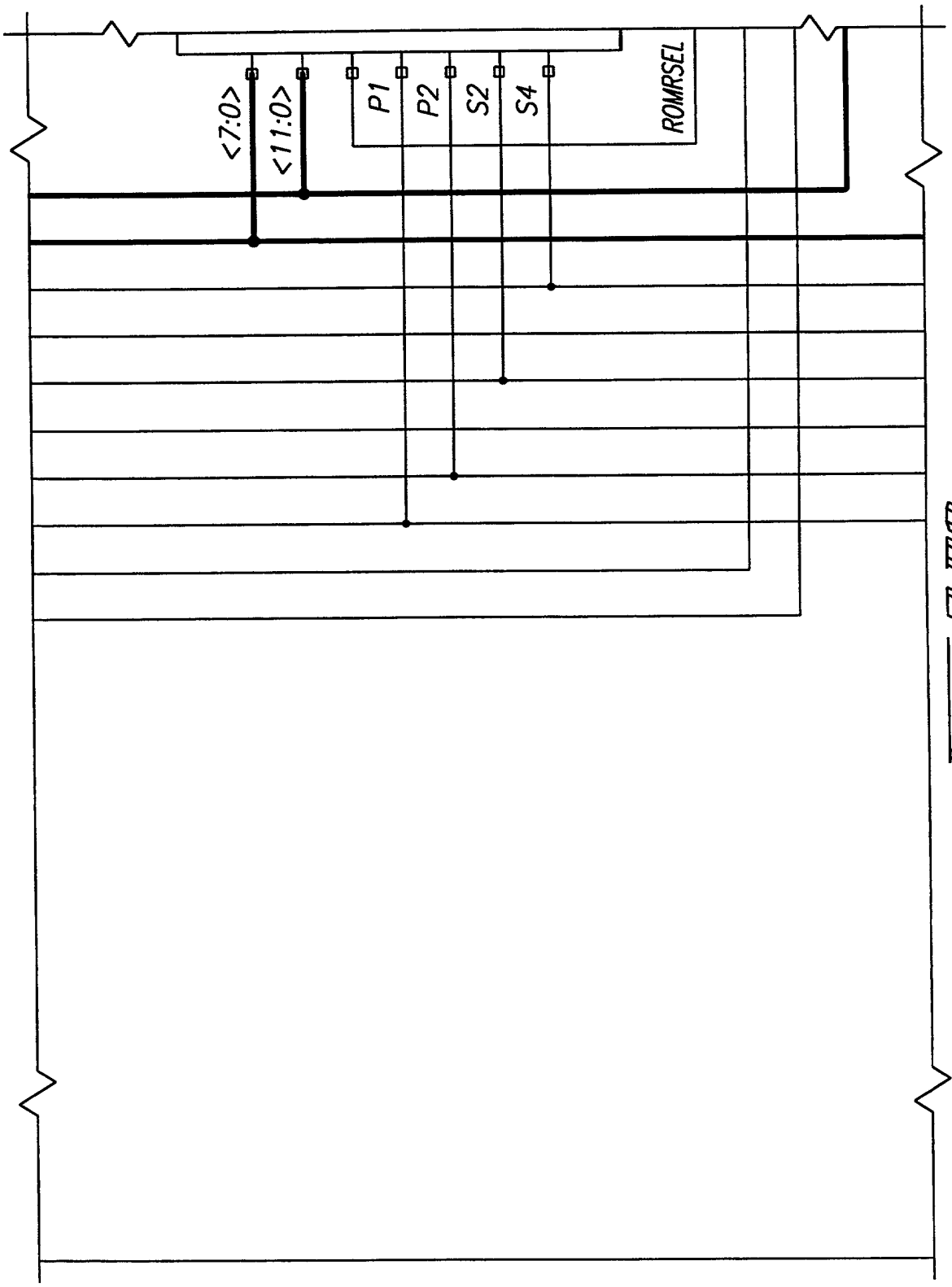
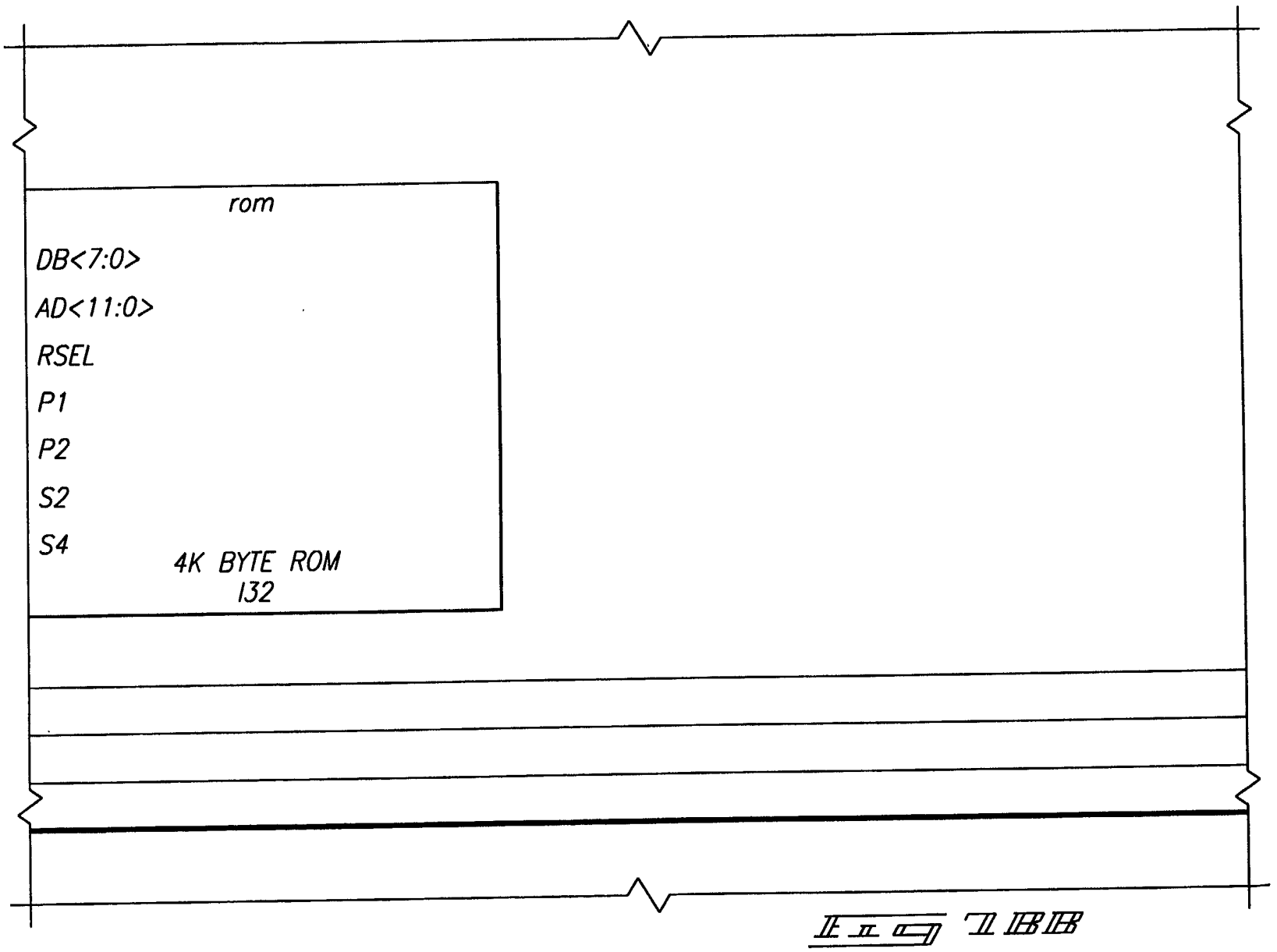
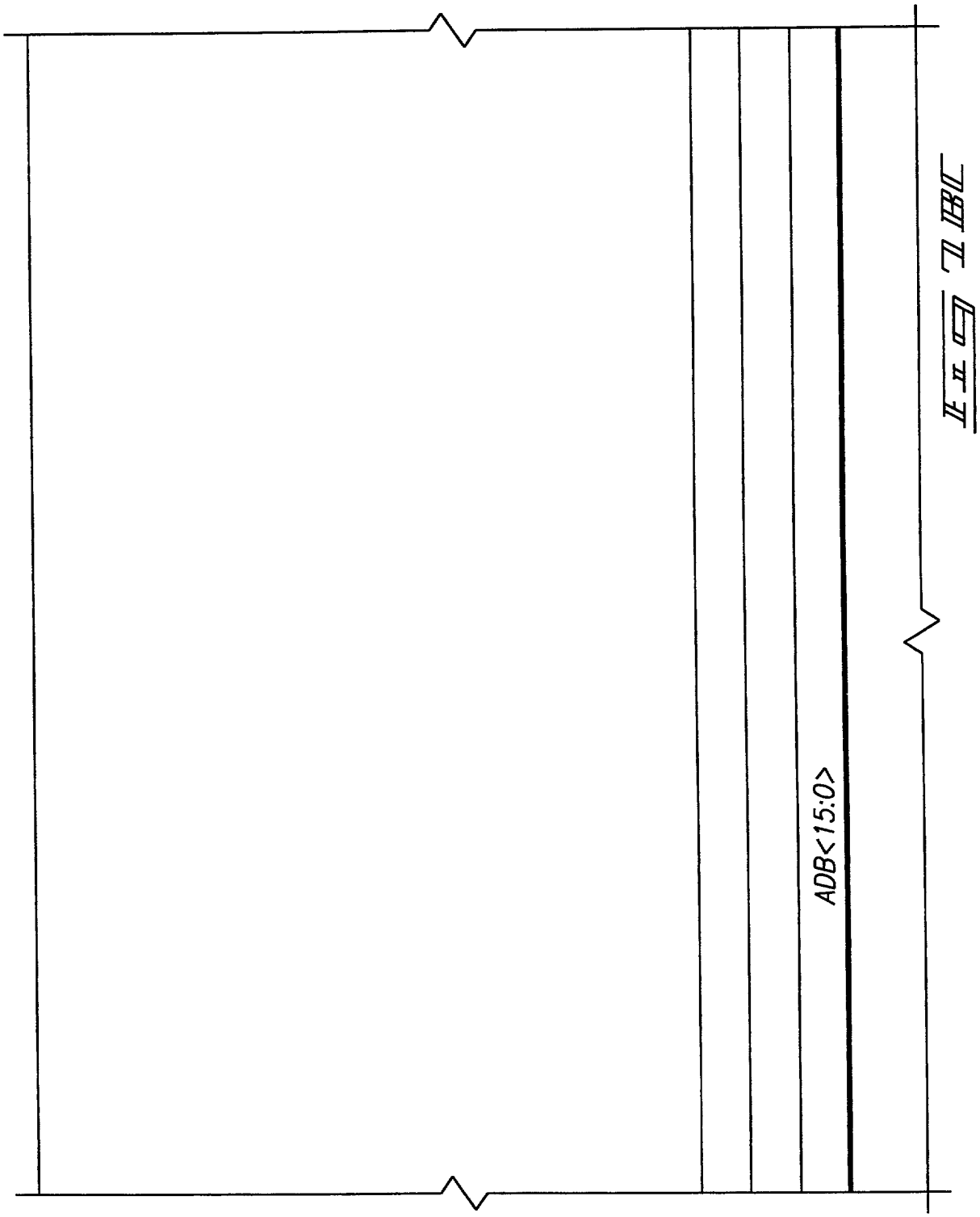

ram
DB<7:0>
ADB<8:0>
PWURST
WSEL
RSEL
P1
P2
S1
S2
S3
S4
512 BYTE RAM
129

Fig 10B

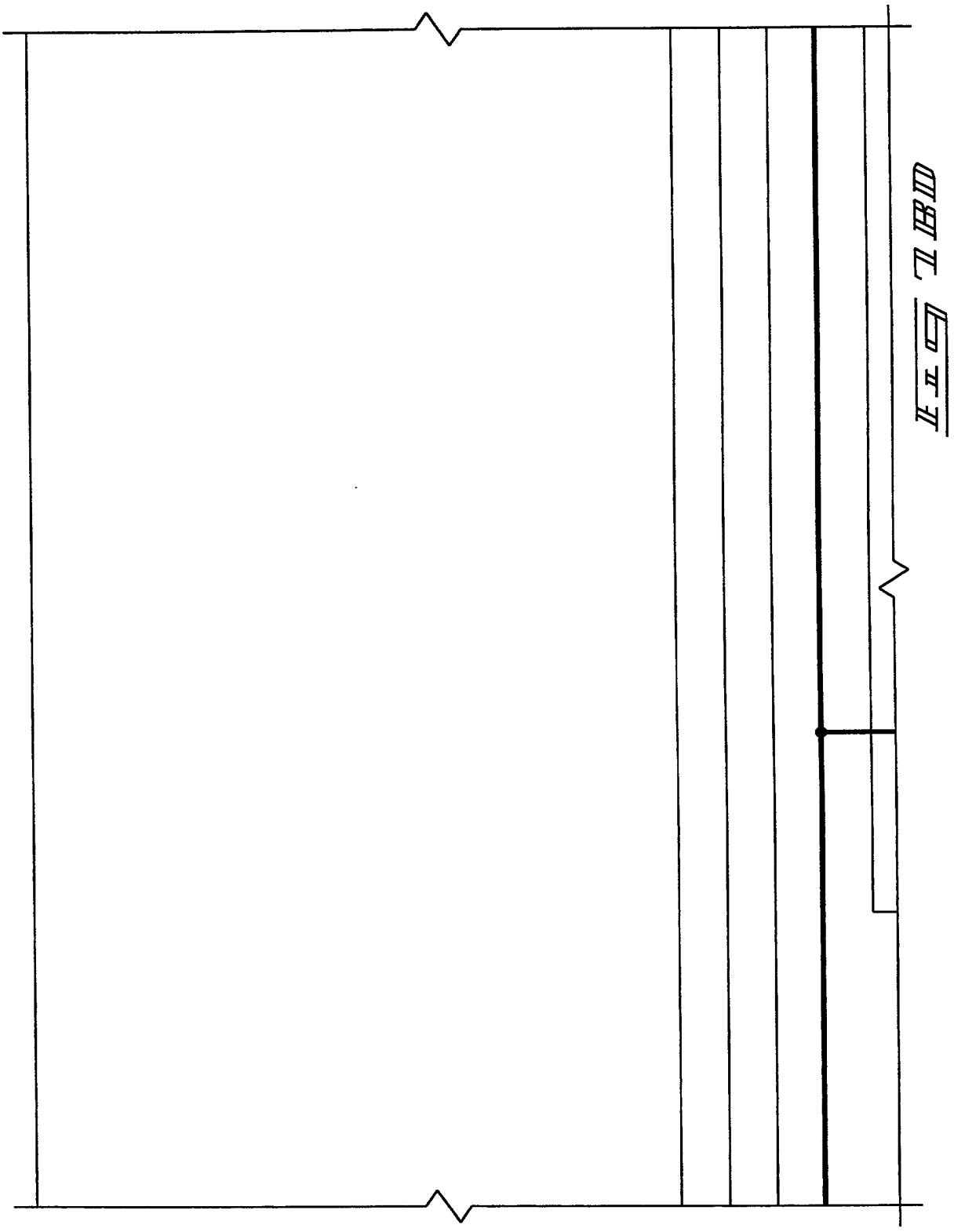


EP 1 059 594 A2

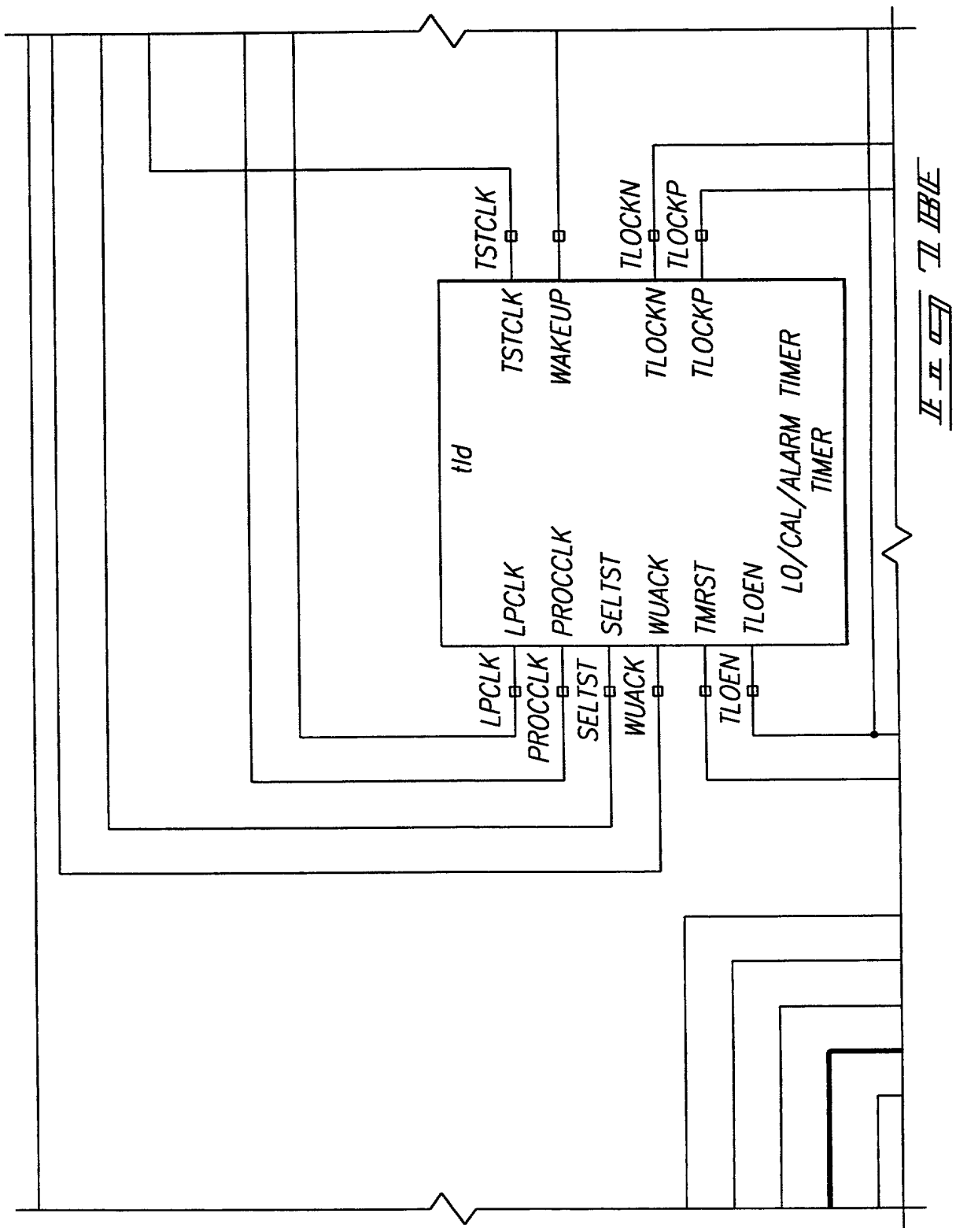

rom
DB<7:0>
AD<11:0>
RSEL
P1
P2
S2
S4
4K BYTE ROM
I32

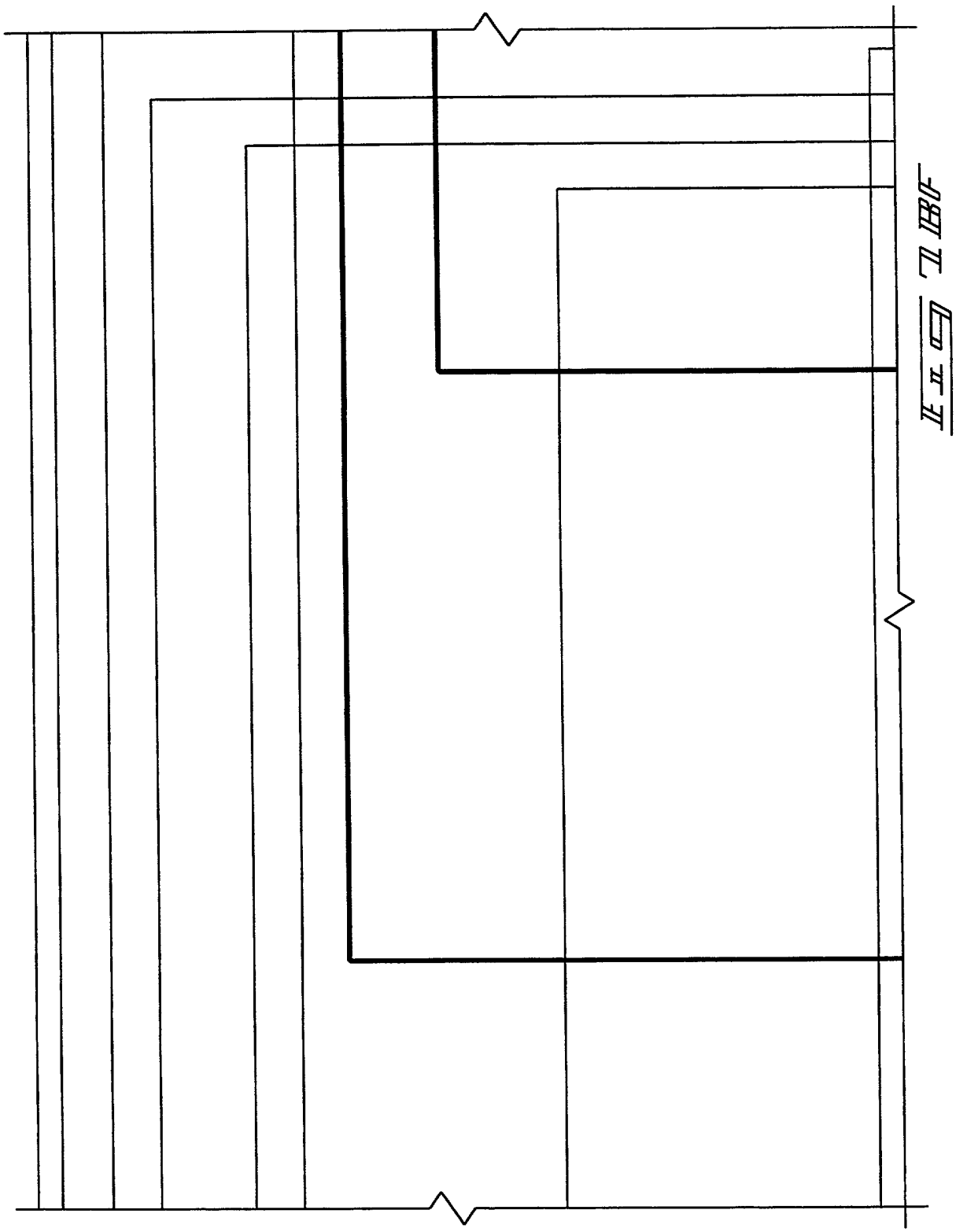


FOIA 2005-0054-F



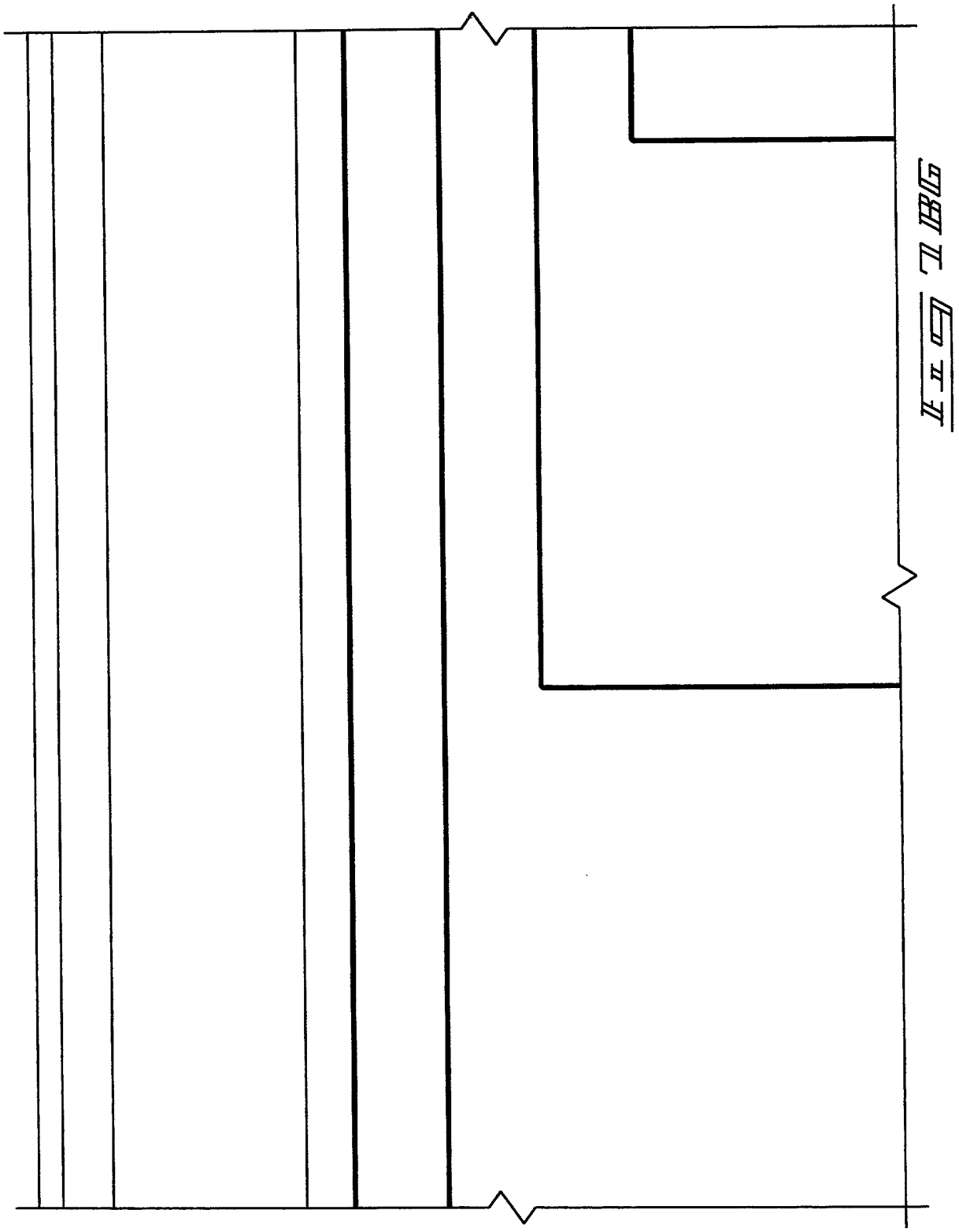
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TSTCLK
TLOCKN
TLOCKP
tld
TSTCLK
WAKEUP
TLOCKN
TLOCKP
TIMER
LO/CAL/ALARM
TIMER
LPCLK
PROCCLK
SELTST
WUACK
TMRST
TLOEN
LPCLK
PROCCLK
SELTST
WUACK
TLOEN

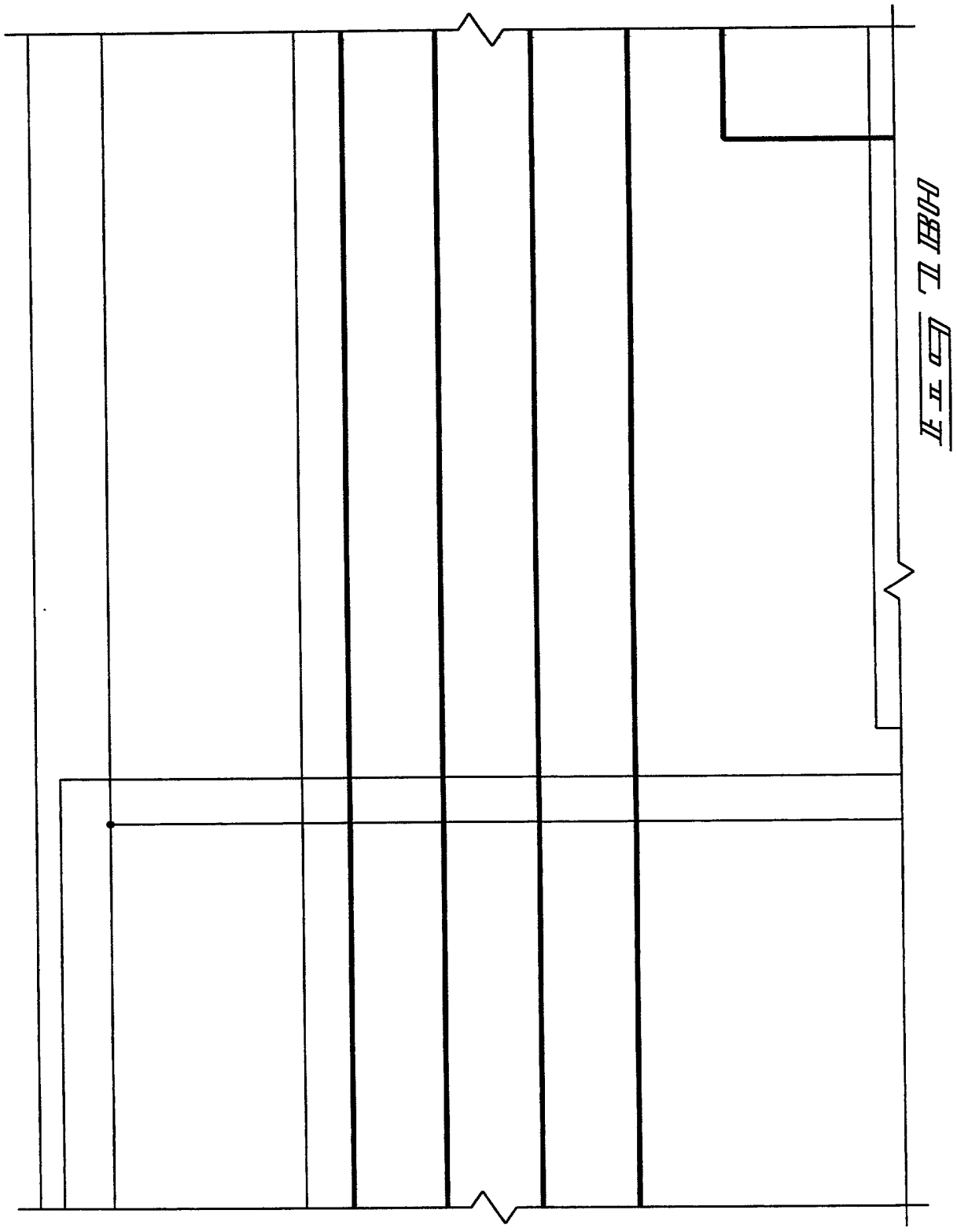


Электронный архив судна "Ленинградец"

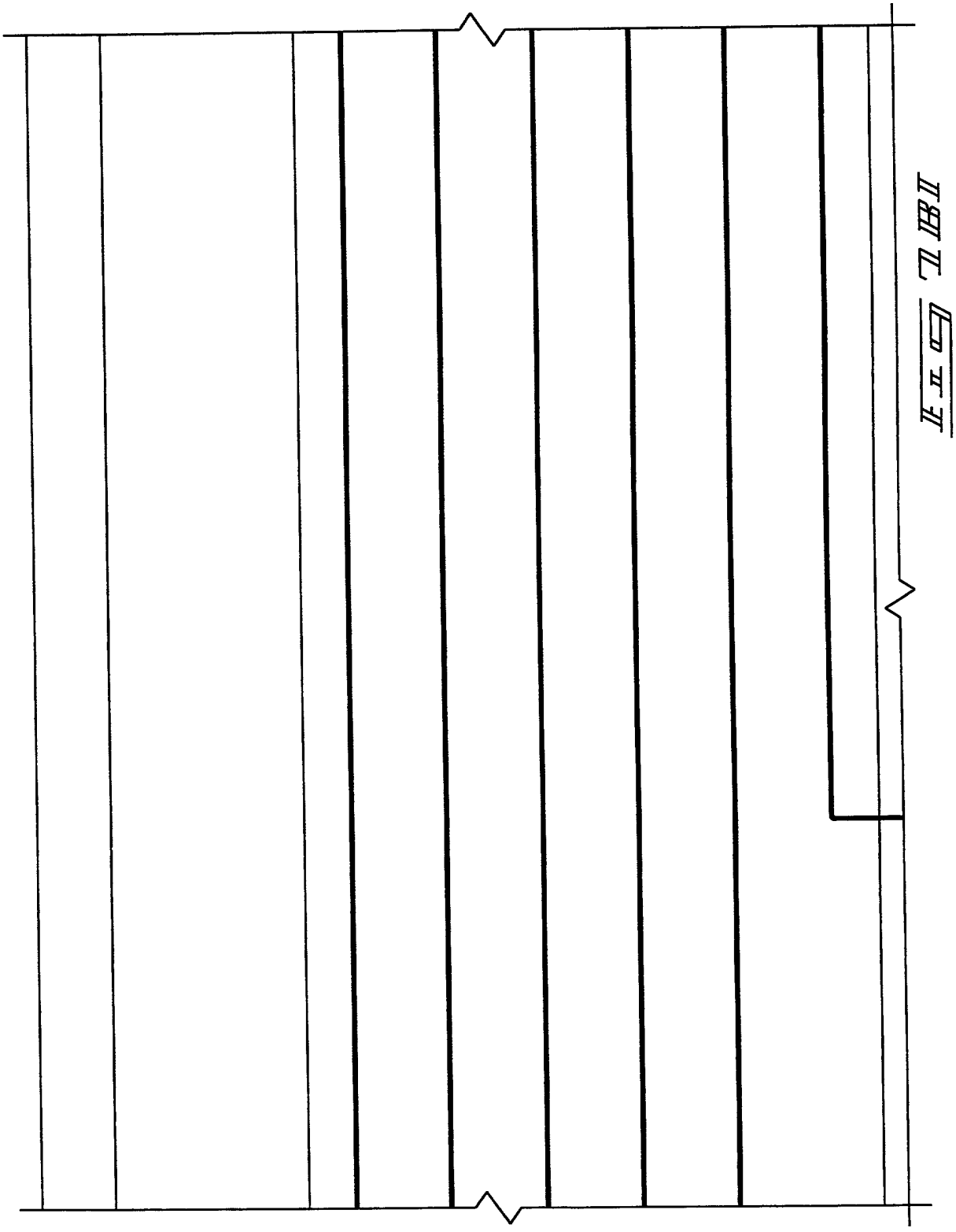
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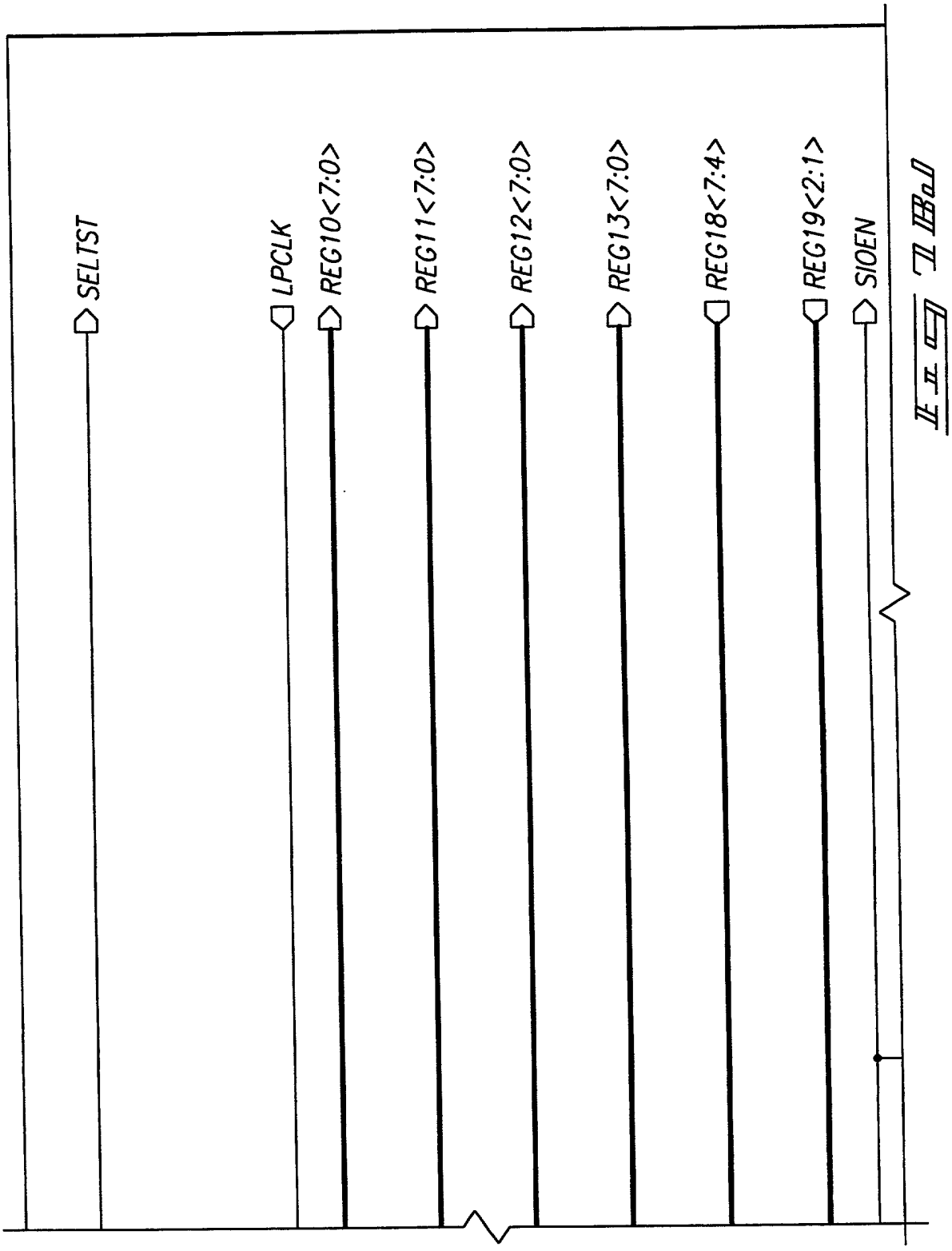
Репозиторий ГГУ имени Ф. Скорины



RU 2252954 C2 20050527



0952265 - 05.4.04


SELTST
LPCLK
REG10<7:0>
REG11<7:0>
REG12<7:0>
REG13<7:0>
REG18<7:4>
REG19<2:1>
SIOEN

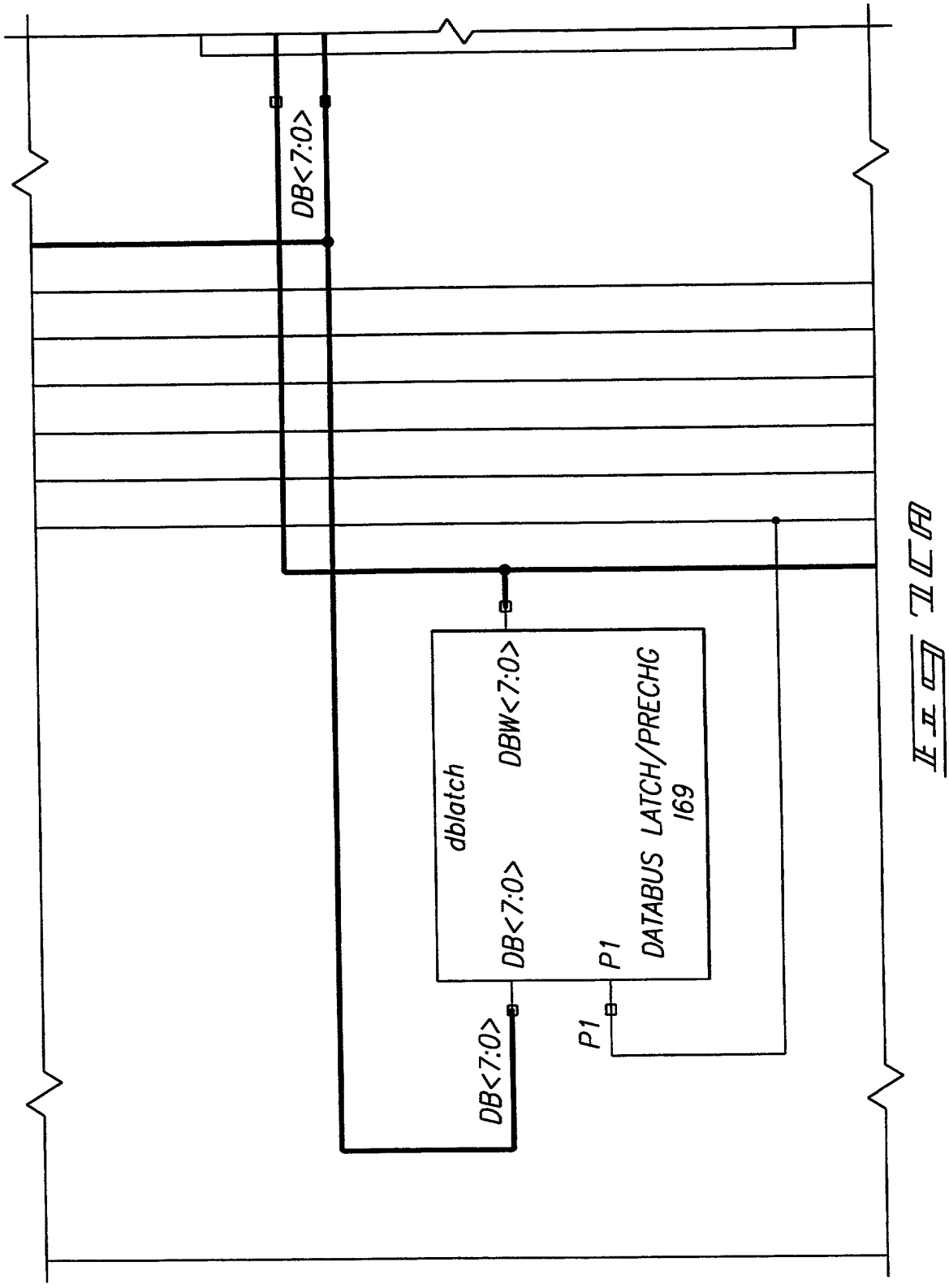
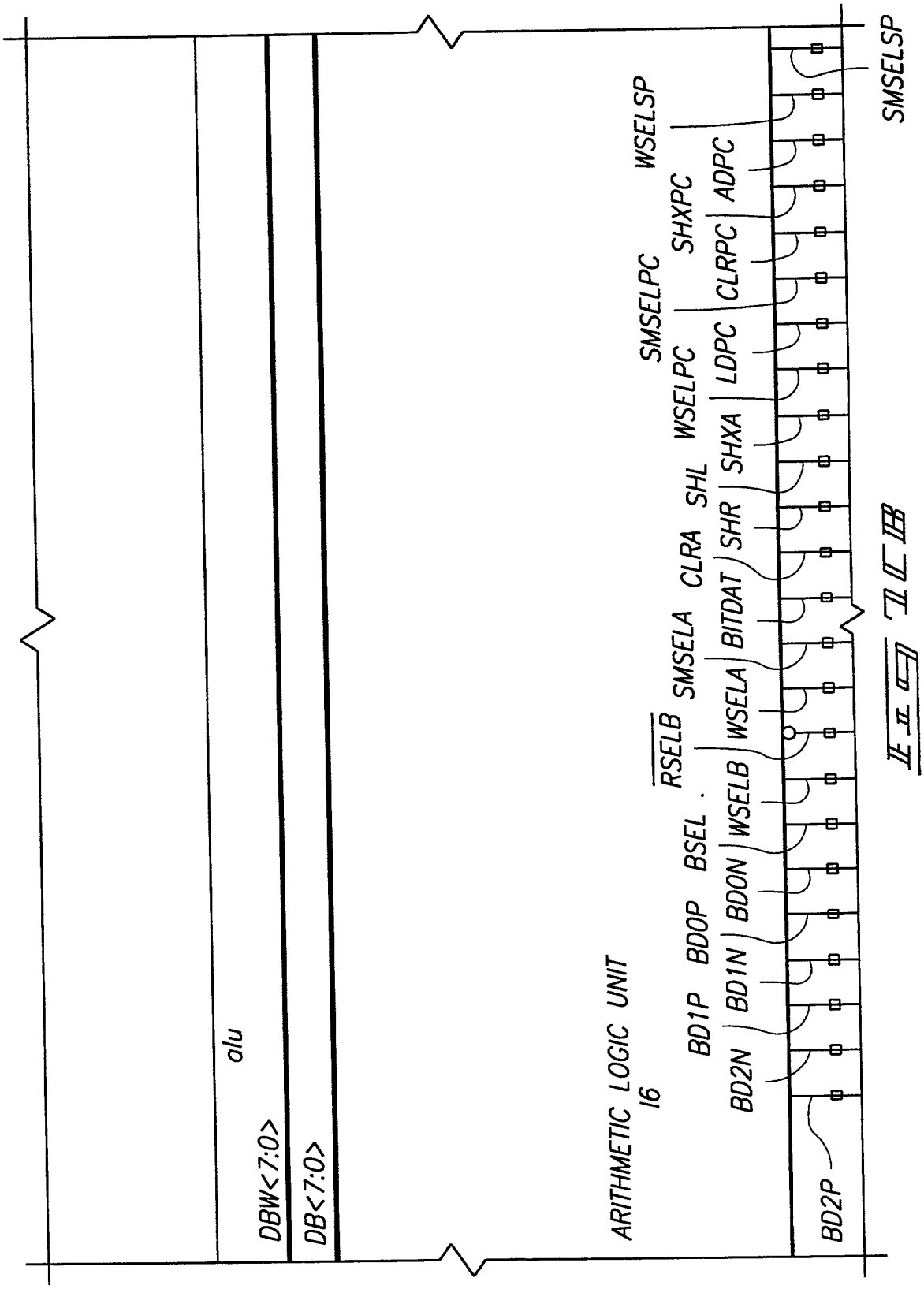
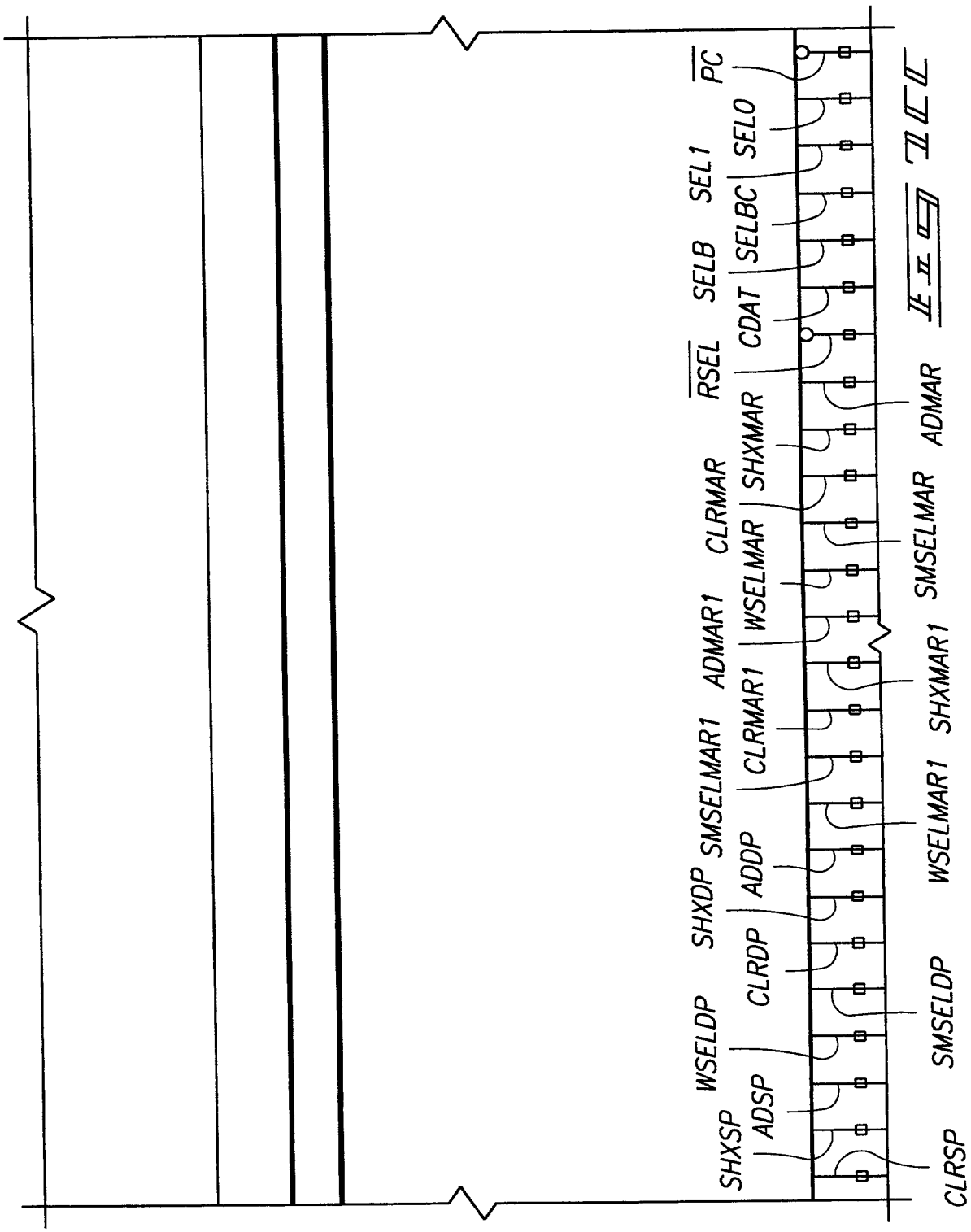
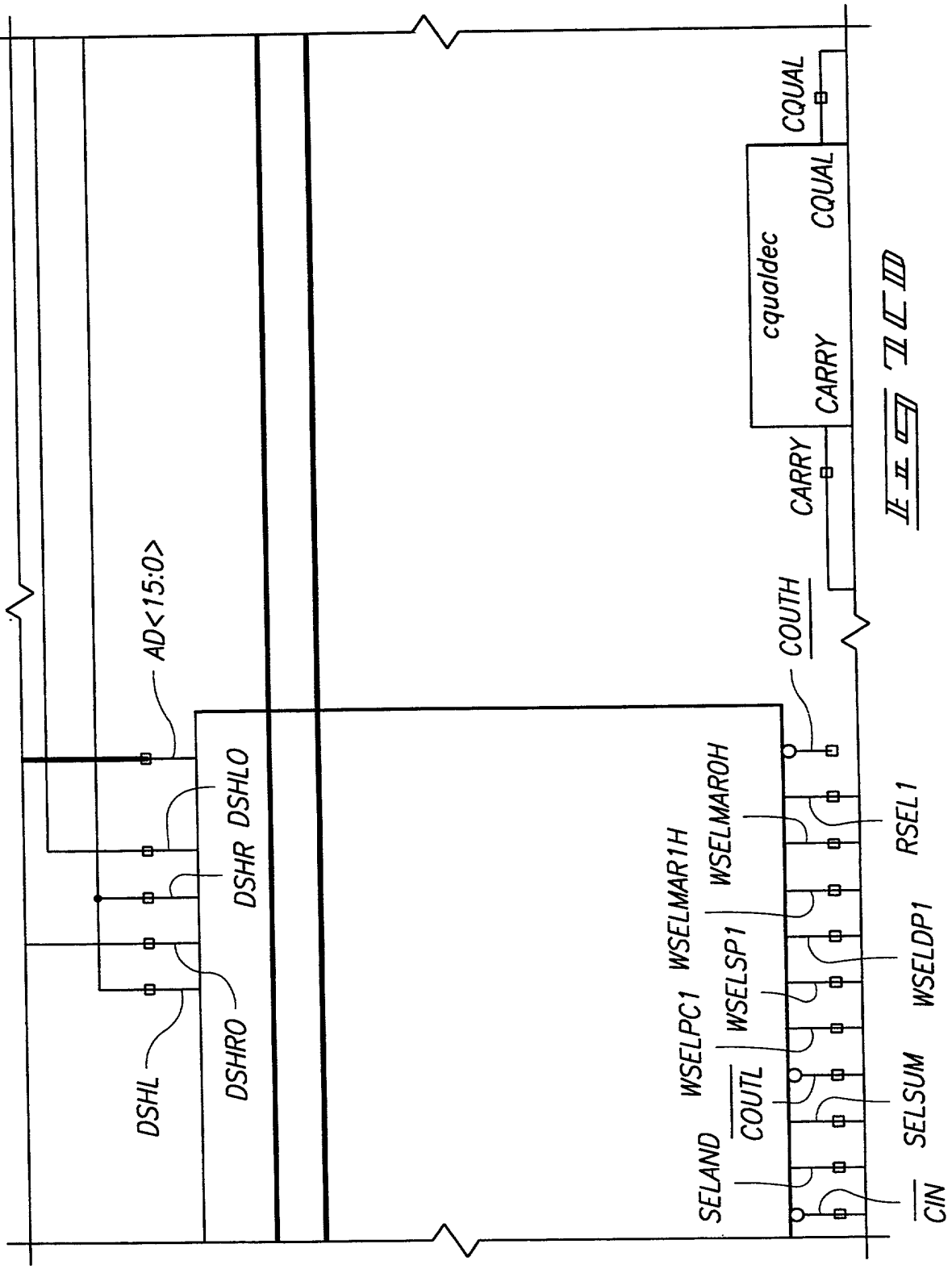


Fig 11A

Polypac-ESC02866


alu
DBW<7:0>
DB<7:0>
ARITHMETIC LOGIC UNIT
16
BD1P
BD0P
BSEL
BD2N
BD1N
BD0N
WSELB
RSELB
WSELA
SMSELA
BITDAT
CLRA
SHR
SHL
SHXA
WSELPC
LDPC
SMSELPC
CLRPC
SHXPC
ADPC
WSELSP
SMSELSP
BD2P


SHXSP
ADSP
WSELDP
SHXDP
CLRDP
SMSELMAR1
ADDP
ADMAR1
CLRMAR1
CLRMAR
WSELMAR
RSEL
SHXMAR
SELB
CDAT
SEL1
SELBC
SEL0
PC
CLRSP
SMSELDP
WSELMAR1
SHXMAR1
SMSELMAR
ADMAR


AD<15:0>
DSHL
DSHR
DSHLO
DSHRO
COUTH
CARRY
cqualdec
CQUAL
CQUAL
CARRY
RSEL1
WSELMAR0H
WSELMAR1H
WSELSP1
WSELDP1
WSELPC1
SELAND
COUTL
SELSUM
CIN

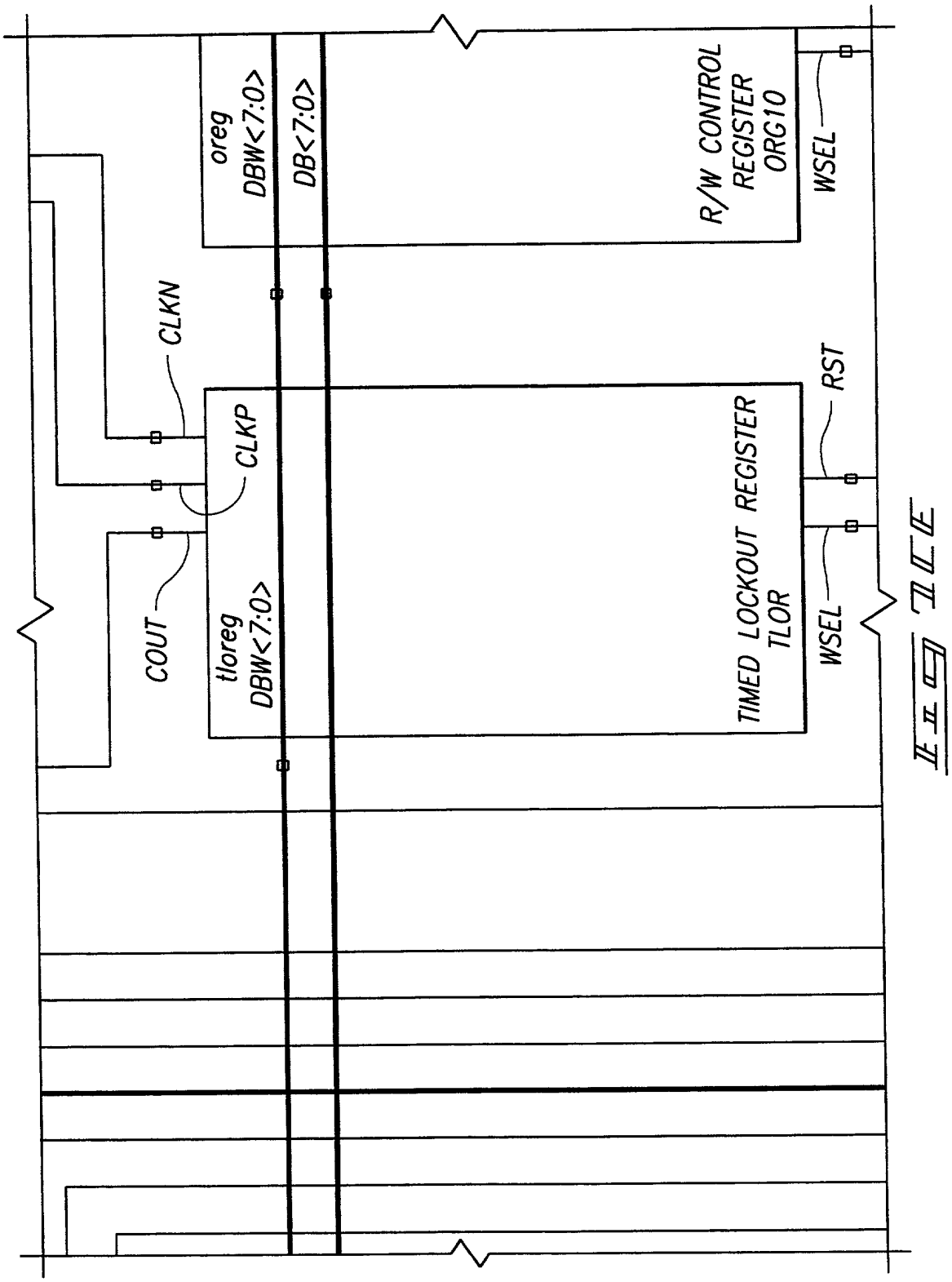

oreg
DBW<7:0>
DB<7:0>
R/W CONTROL
REGISTER
ORG10
WSEL
CLKN
CLKP
RST
COUT
tloreg
DBW<7:0>
TIMED LOCKOUT REGISTER
TLOR
WSEL

FIG 11

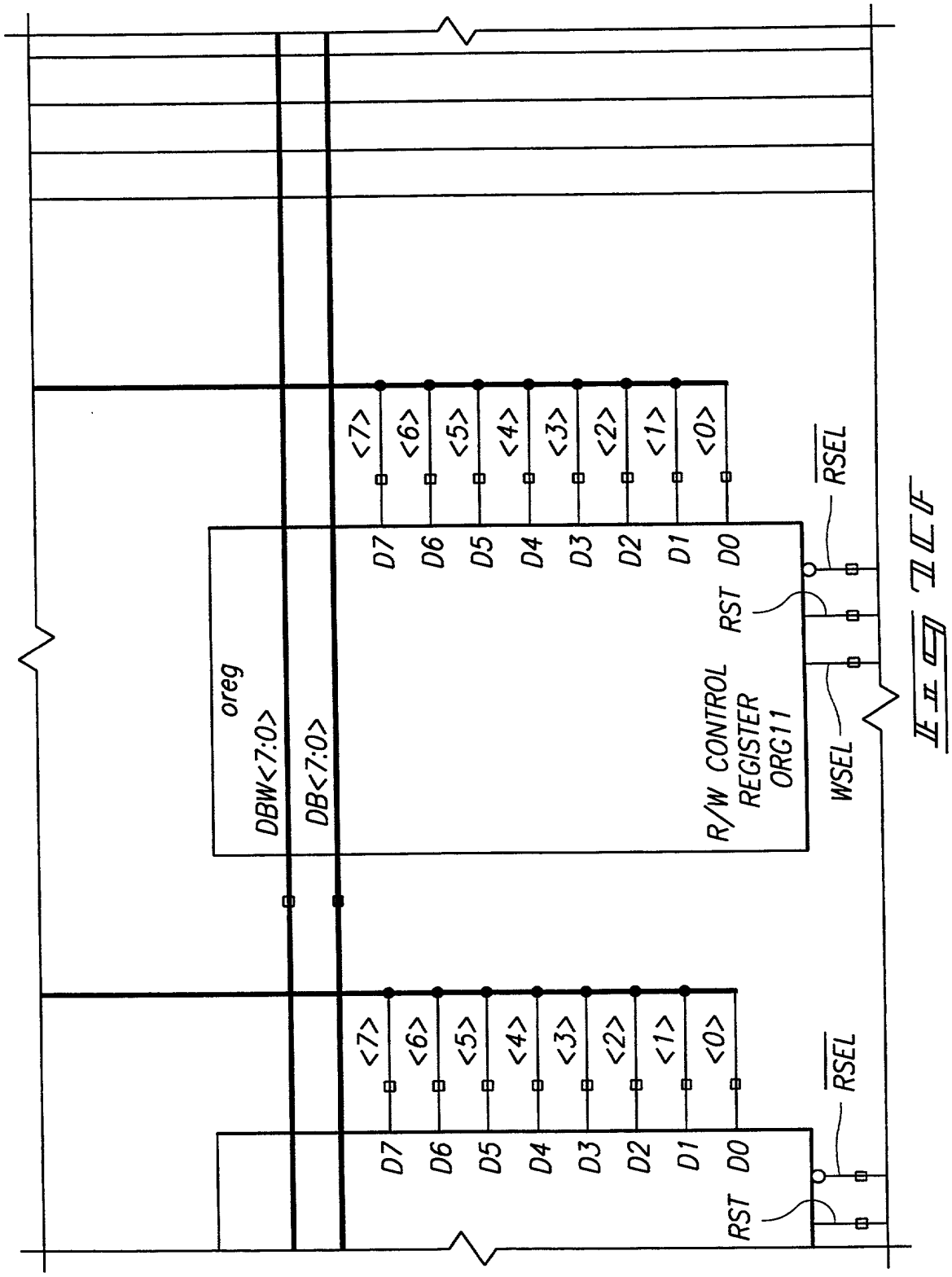

oreg
DBW<7:0>
DB<7:0>
R/W CONTROL REGISTER ORG11
RST
WSEL
RSEL
D7
D6
D5
D4
D3
D2
D1
D0
<7>
<6>
<5>
<4>
<3>
<2>
<1>
<0>

Fig 11F

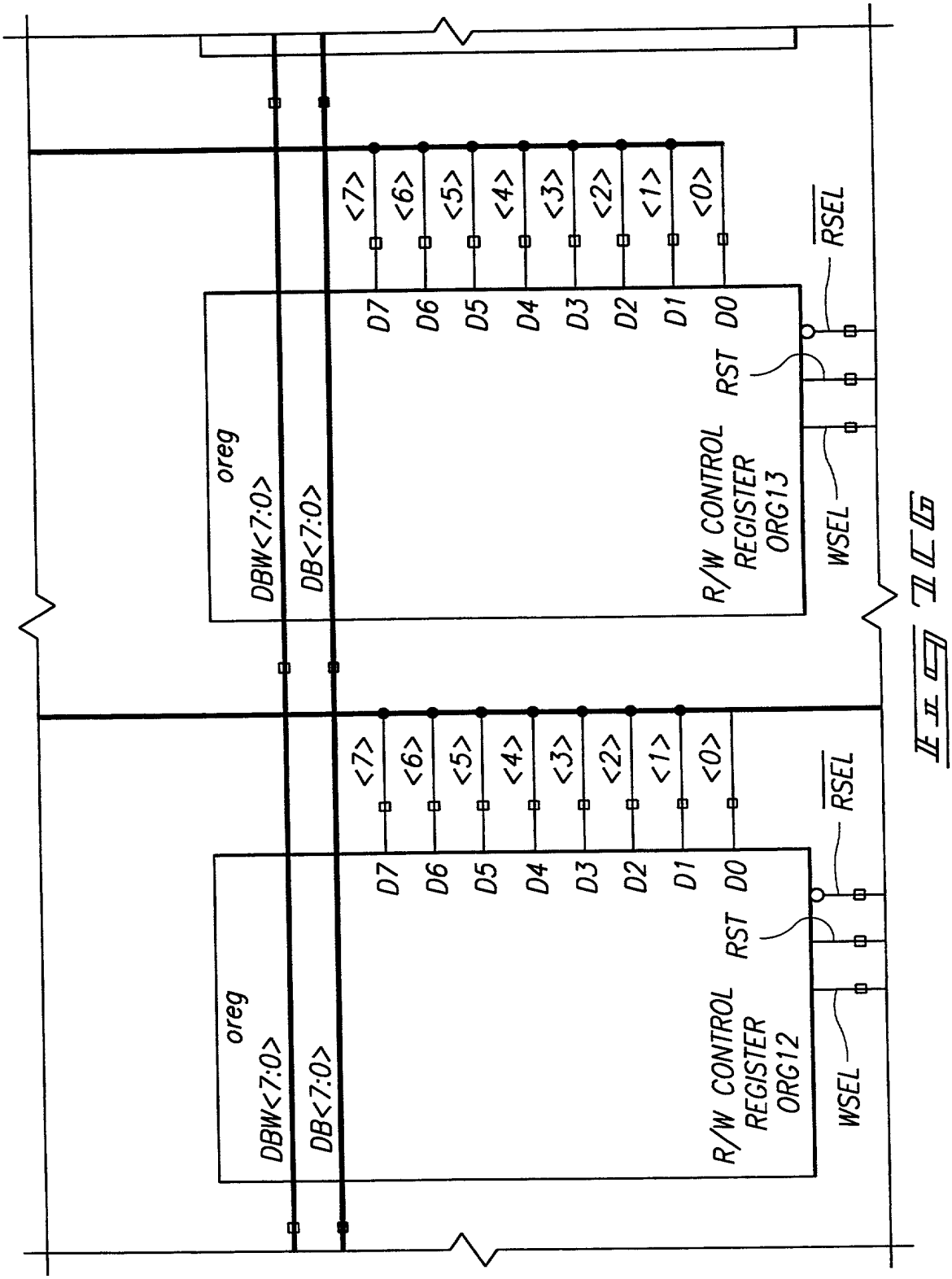
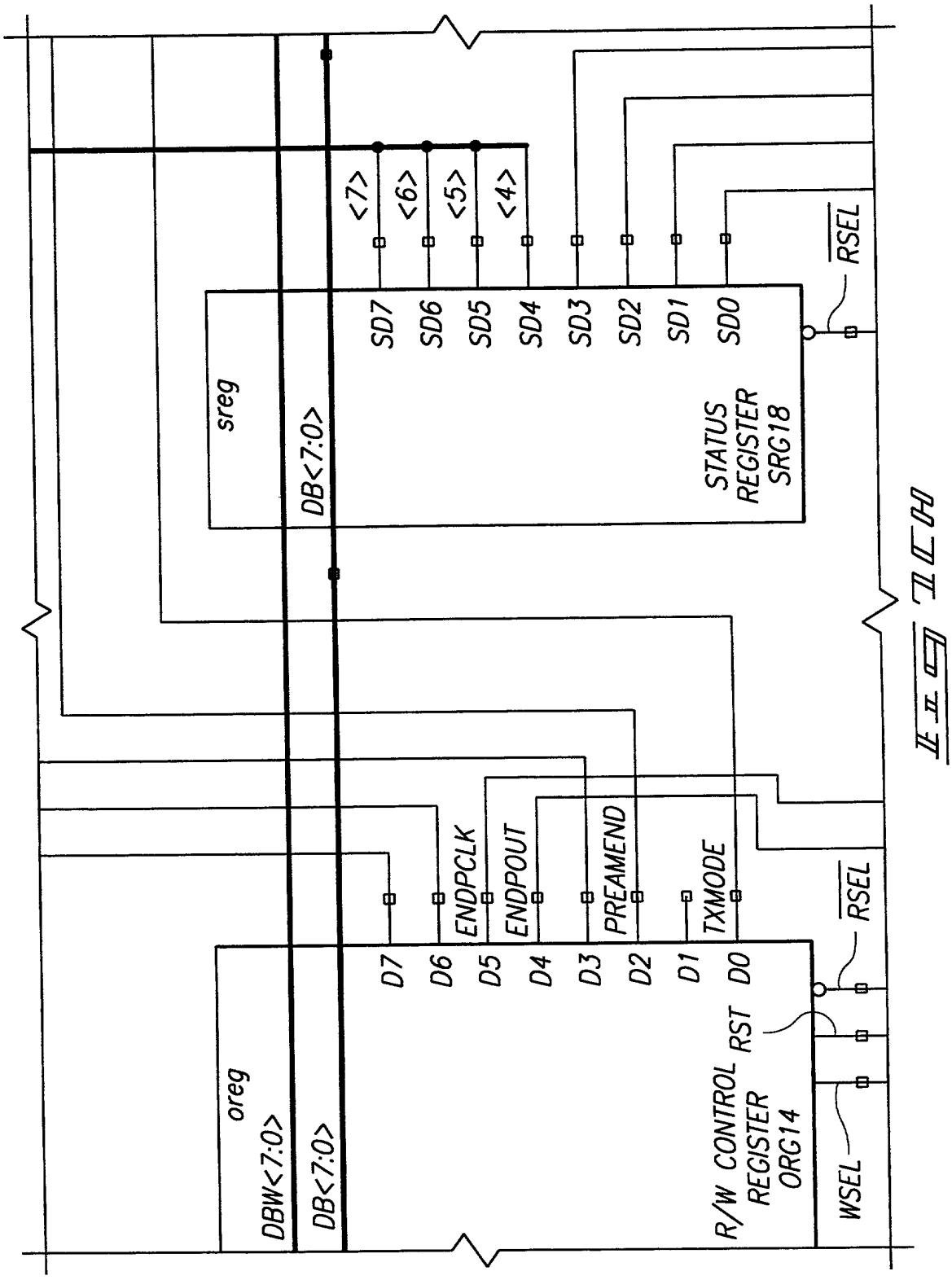
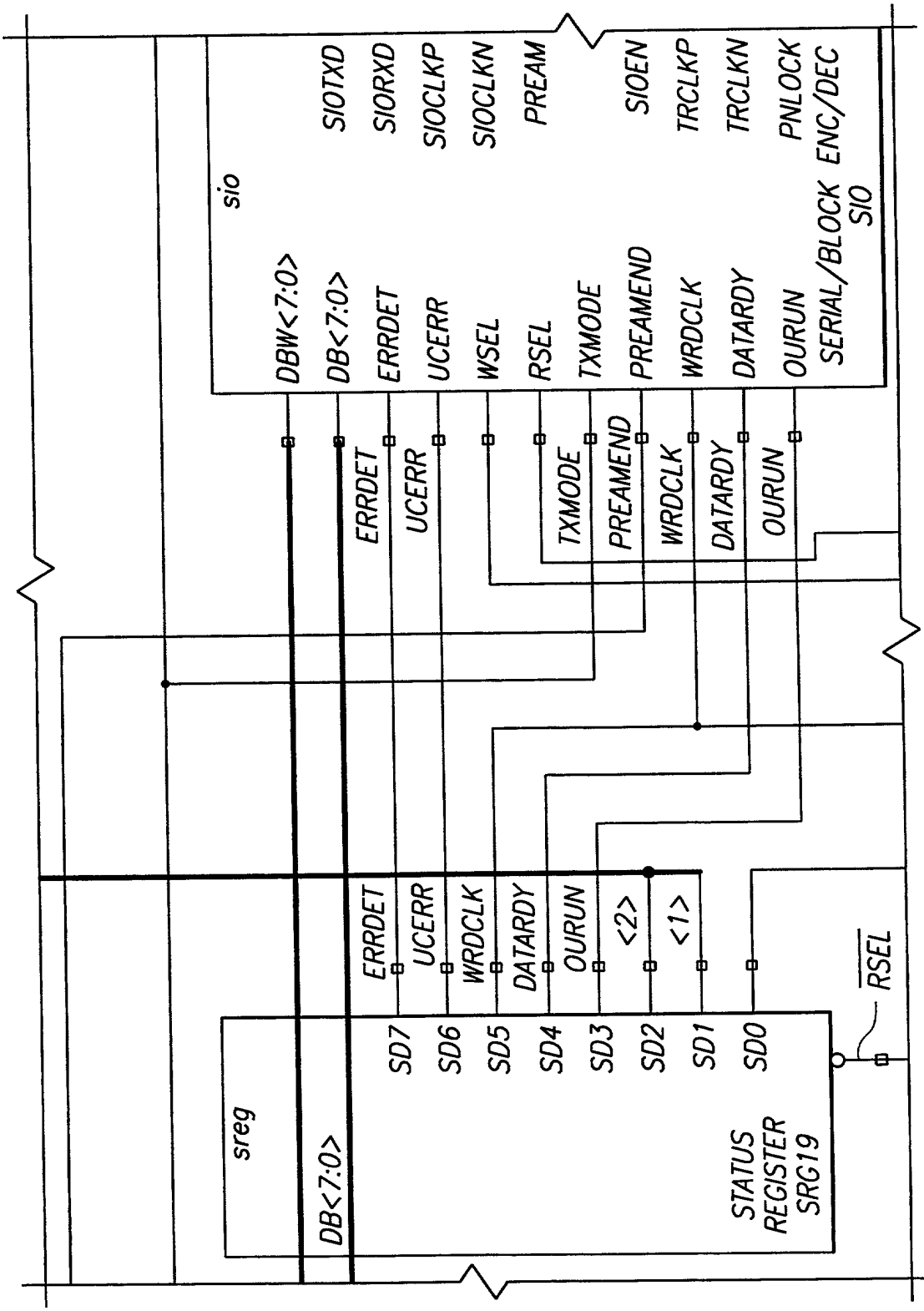

oreg
DBW<7:0>
DB<7:0>
R/W CONTROL REGISTER ORG13
R/W CONTROL REGISTER ORG12
D7
D6
D5
D4
D3
D2
D1
D0
<7>
<6>
<5>
<4>
<3>
<2>
<1>
<0>
RST
WSEL
RSEL

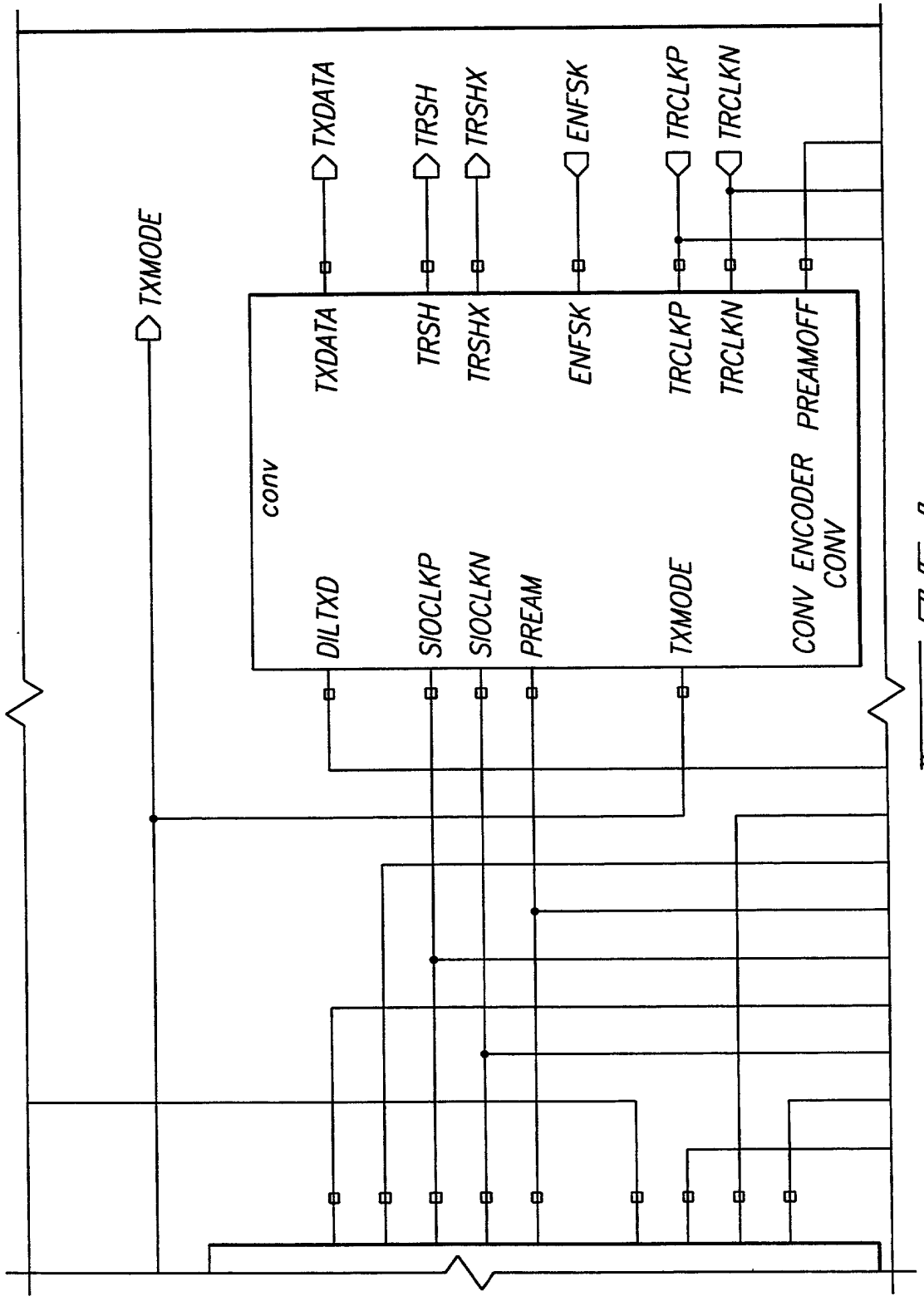
FIG 11


sreg
DB<7:0>
SD7
SD6
SD5
SD4
SD3
SD2
SD1
SD0
<7>
<6>
<5>
<4>
STATUS REGISTER SRG18
RSEL
oreg
DBW<7:0>
DB<7:0>
D7
D6
D5
D4
D3
D2
D1
D0
ENDPCLK
ENDPOUT
PREAMEND
TXMODE
RST
R/W CONTROL REGISTER ORG14
WSEL
RSEL

Фиг.3

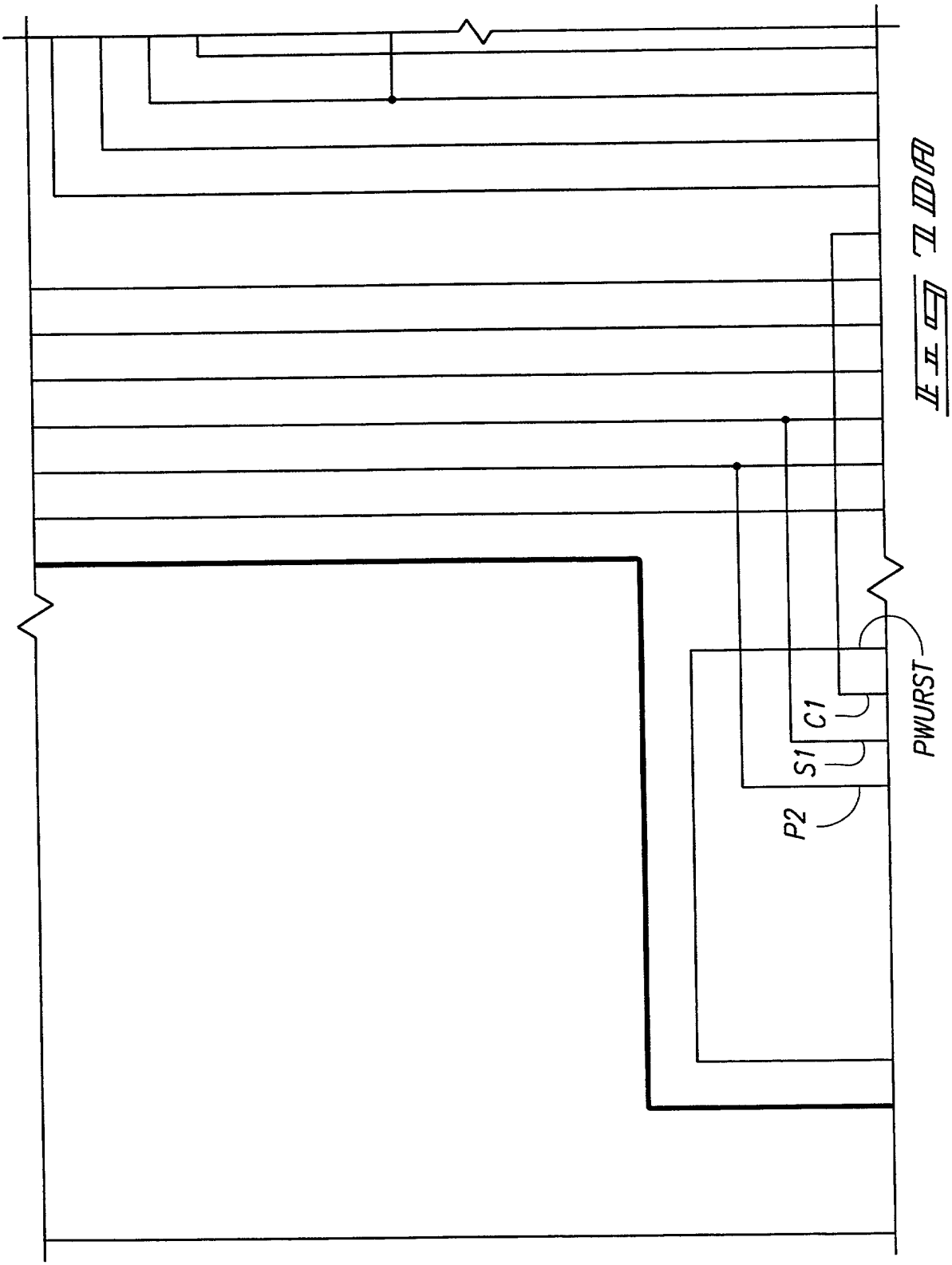

sio
DBW<7:0>
DB<7:0>
ERRDET
UCERR
WSEL
RSEL
TXMODE
PREAMEND
WRDCLK
DATARDY
OURUN
SERIAL/BLOCK
SIO
SIOTXD
SIORXD
SIOCLKP
SIOCLKN
PREAM
SIOEN
TRCLKP
TRCLKN
PNLOCK
ENC/DEC
ERRDET
UCERR
WRDCLK
DATARDY
OURUN
<2>
<1>
sreg
DB<7:0>
SD7
SD6
SD5
SD4
SD3
SD2
SD1
SD0
STATUS
REGISTER
SRG19
RSEL

Фиг. 11



Фиг. 59

Patent application



Patent application - 05/22/95

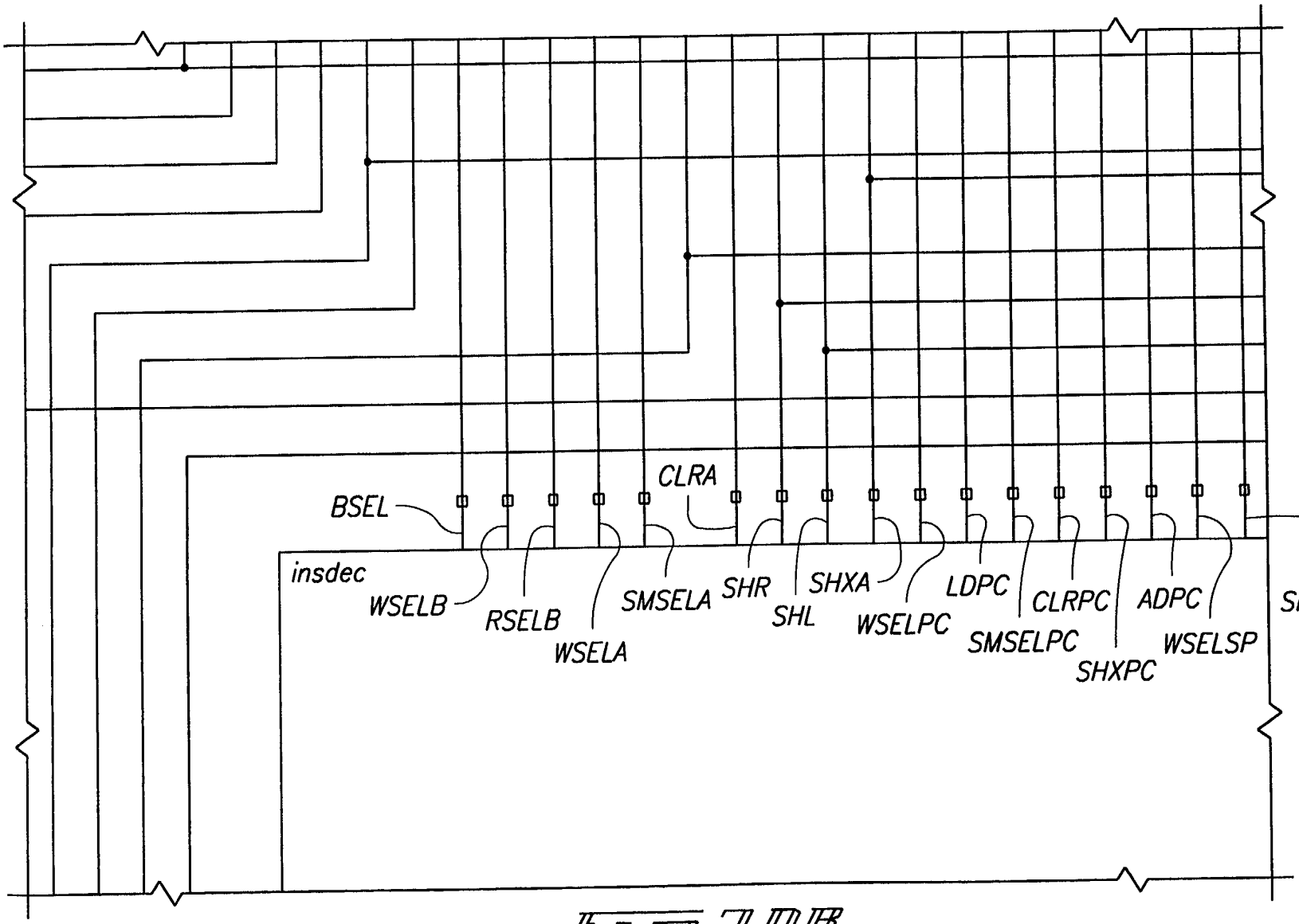

BSEL
insdec
WSELB
RSELB
WSELA
SMSELA
CLRA
SHR
SHL
SHXA
WSELPC
LDPC
SMSELPC
CLRPC
SHXPC
ADPC
WSELSP
SMSELSP

Fig 10B

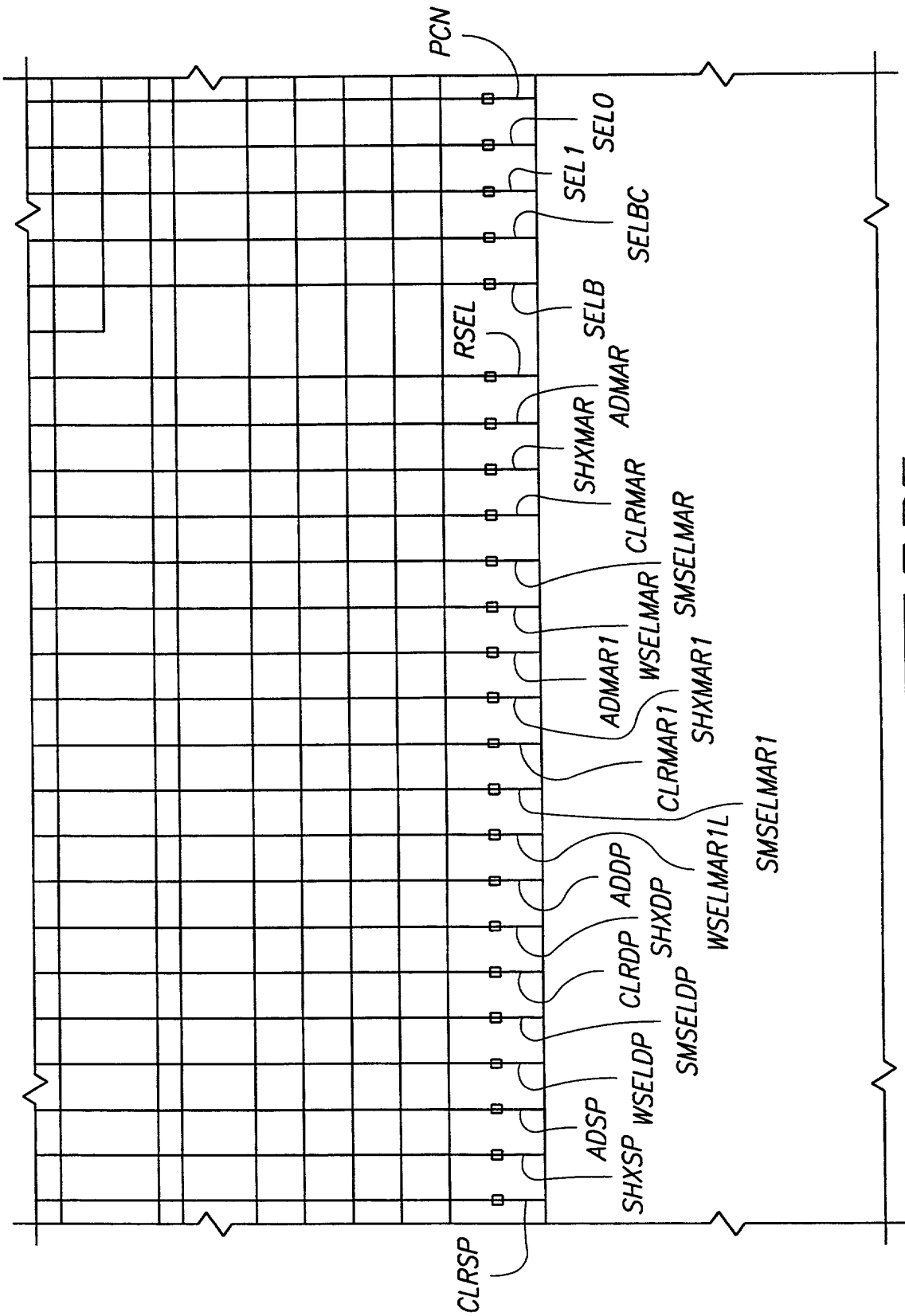
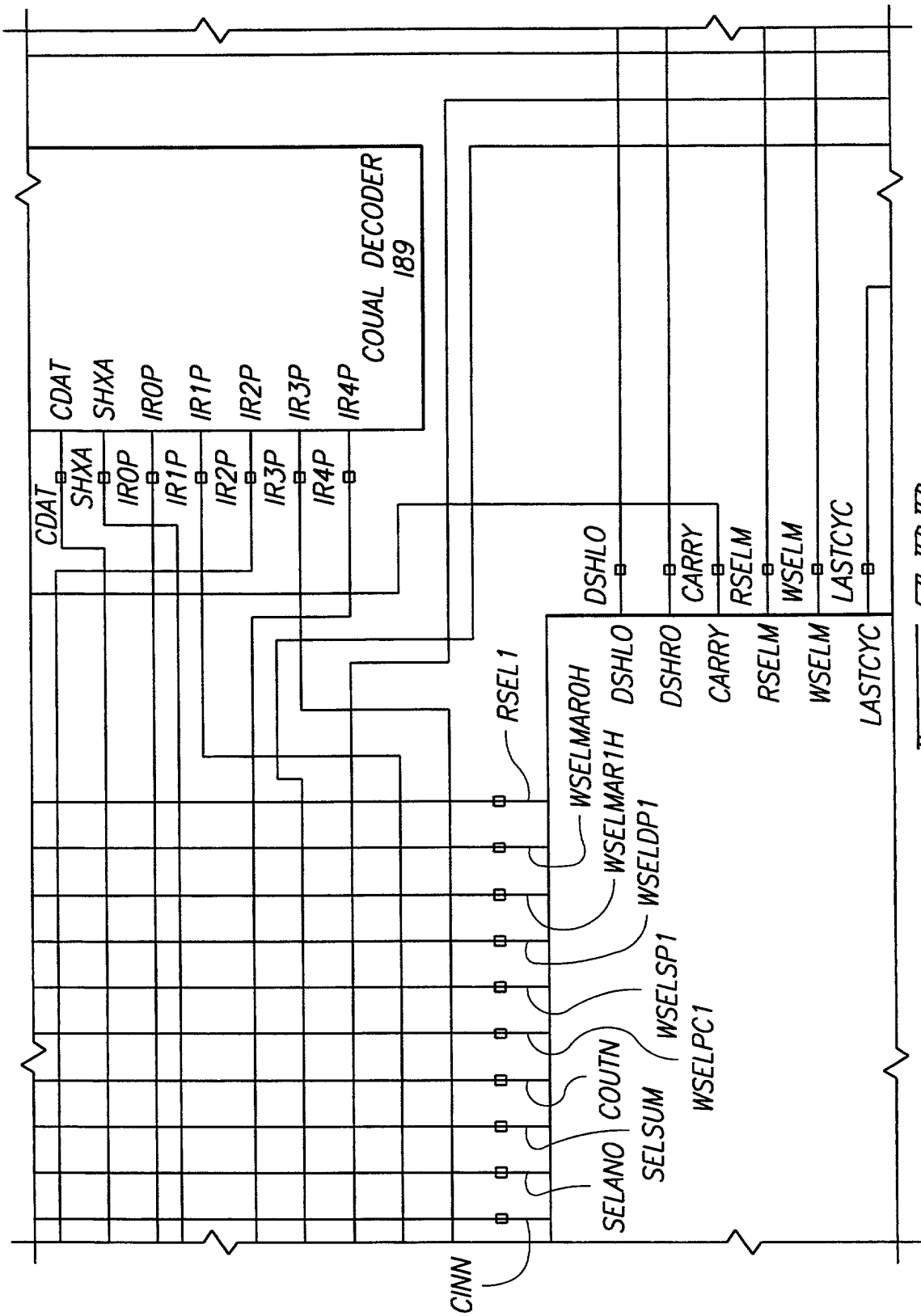

PCN
SEL0
SEL1
SELBC
SELB
ADMAR
SHXMAR
CLRMAR
SMSELMAR
RSEL
ADMAR1
WSELMAR
SHXMAR1
CLRMAR1
SMSELMAR1
ADDP
SHXDP
WSELMAR1L
CLRDP
SMSELDP
WSELDP
ADSP
SHXSP
CLRSP

FIG 11


COUAL DECODER I89
CDAT
SHXA
IR0P
IR1P
IR2P
IR3P
IR4P
DSHLO
CARRY
RSELM
WSELM
LASTCYC
RSEL1
WSELMAR0H
WSELMAR1H
WSELDP1
WSELSP1
WSELPC1
COUTN
SELSUM
SELANO
CINN

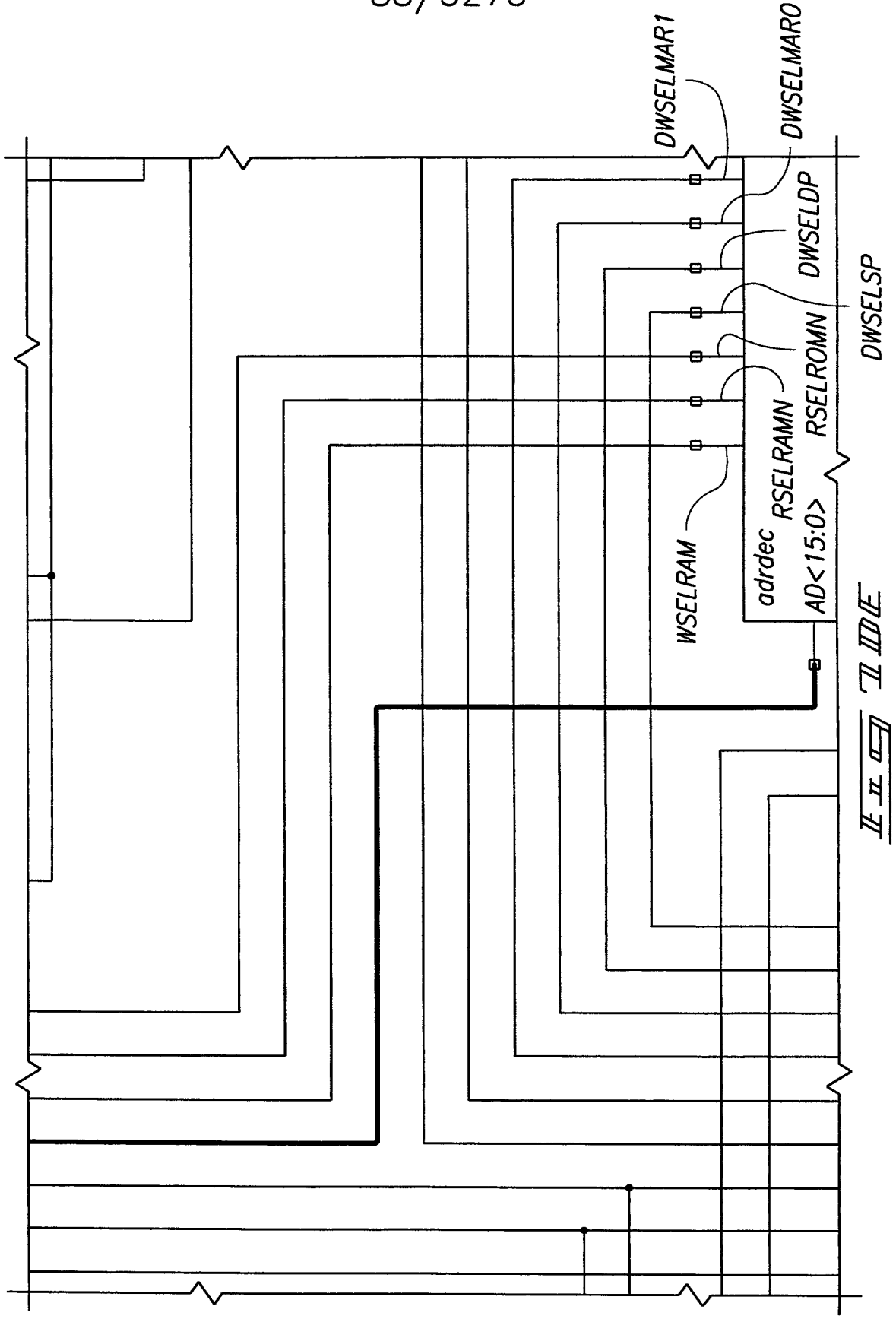
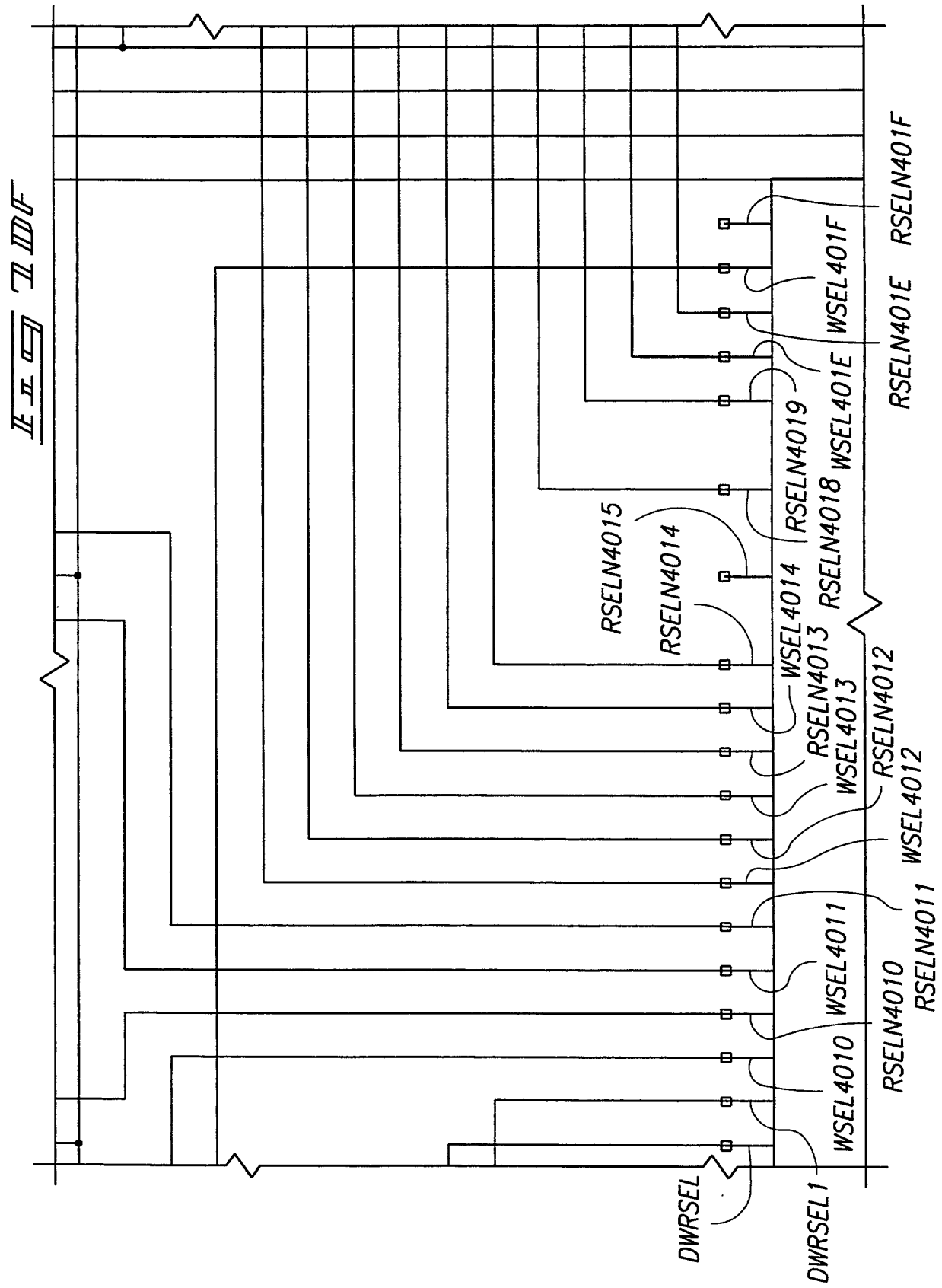

DWSELMAR1
DWSELMAR0
DWSELDP
DWSELSP
RSELROMN
RSELRAMN
adrdec
AD<15:0>
WSELRAM

FIG 11 IDLE


도면 11 of
RSELN401F
RSELN401E
WSEL401F
WSEL401E
RSELN4019
RSELN4018
RSELN4015
RSELN4014
WSEL4014
WSEL4013
RSELN4013
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WSEL4010
DWRSEL
DWRSEL1

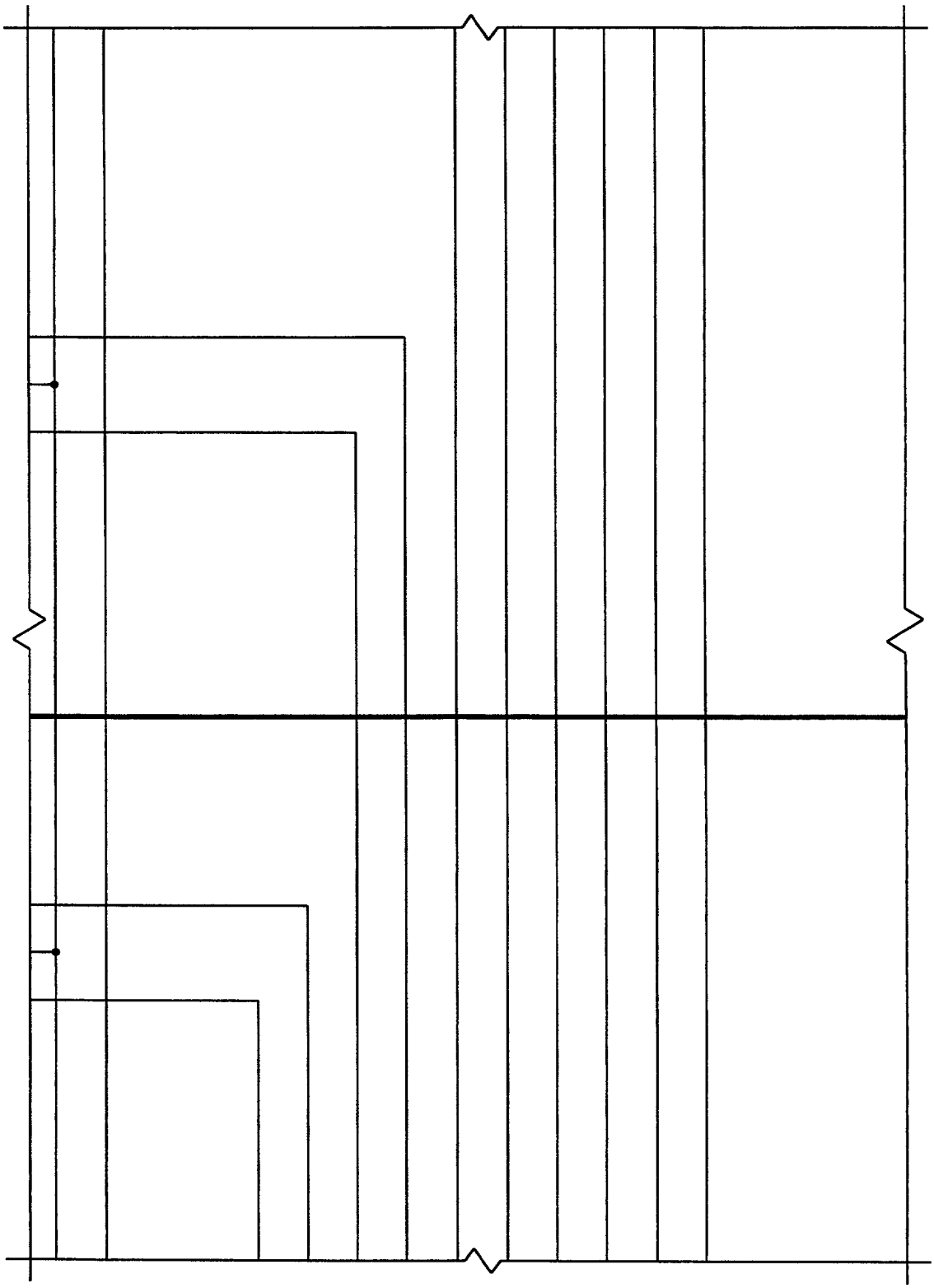
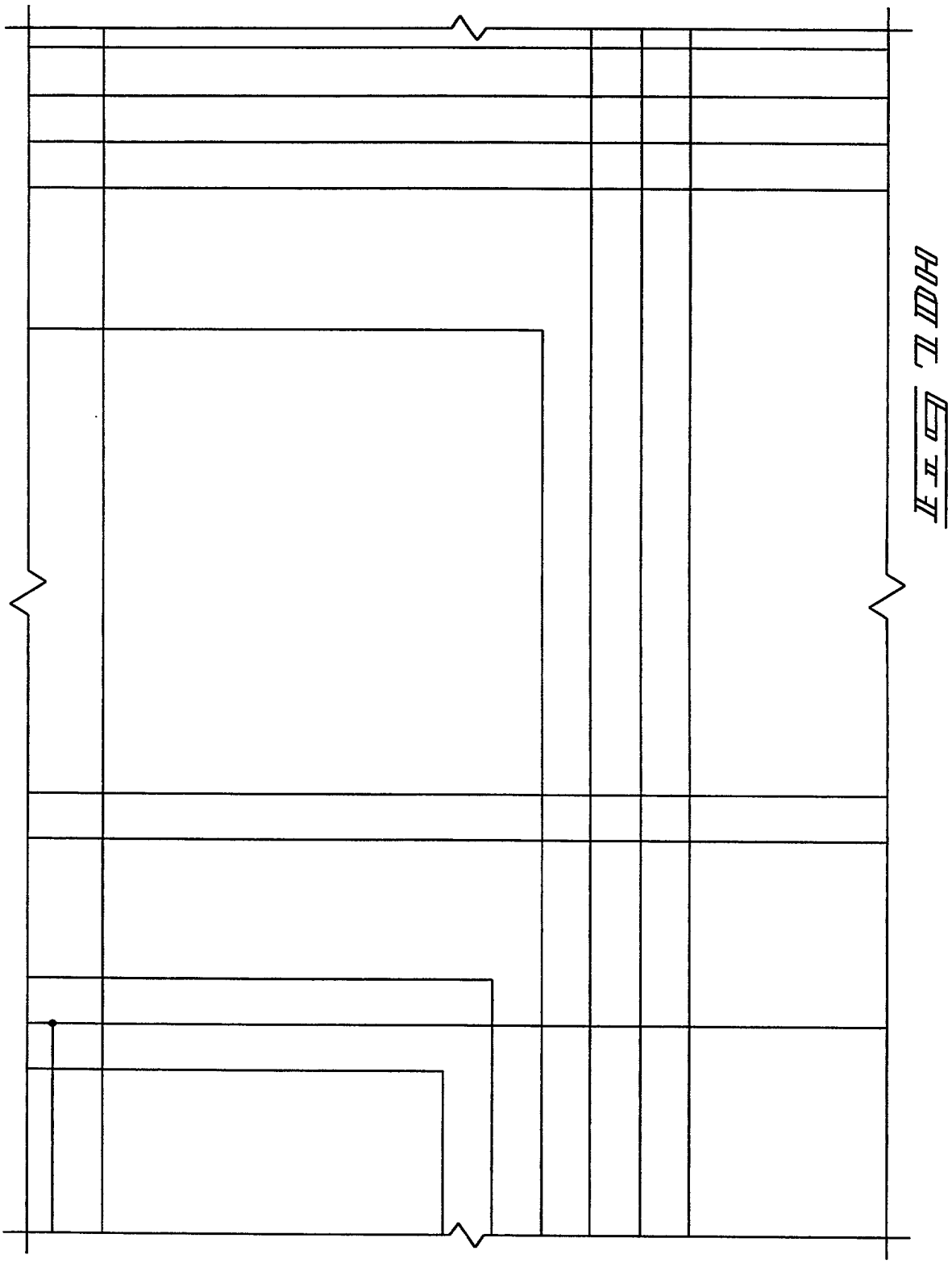


FIG 6

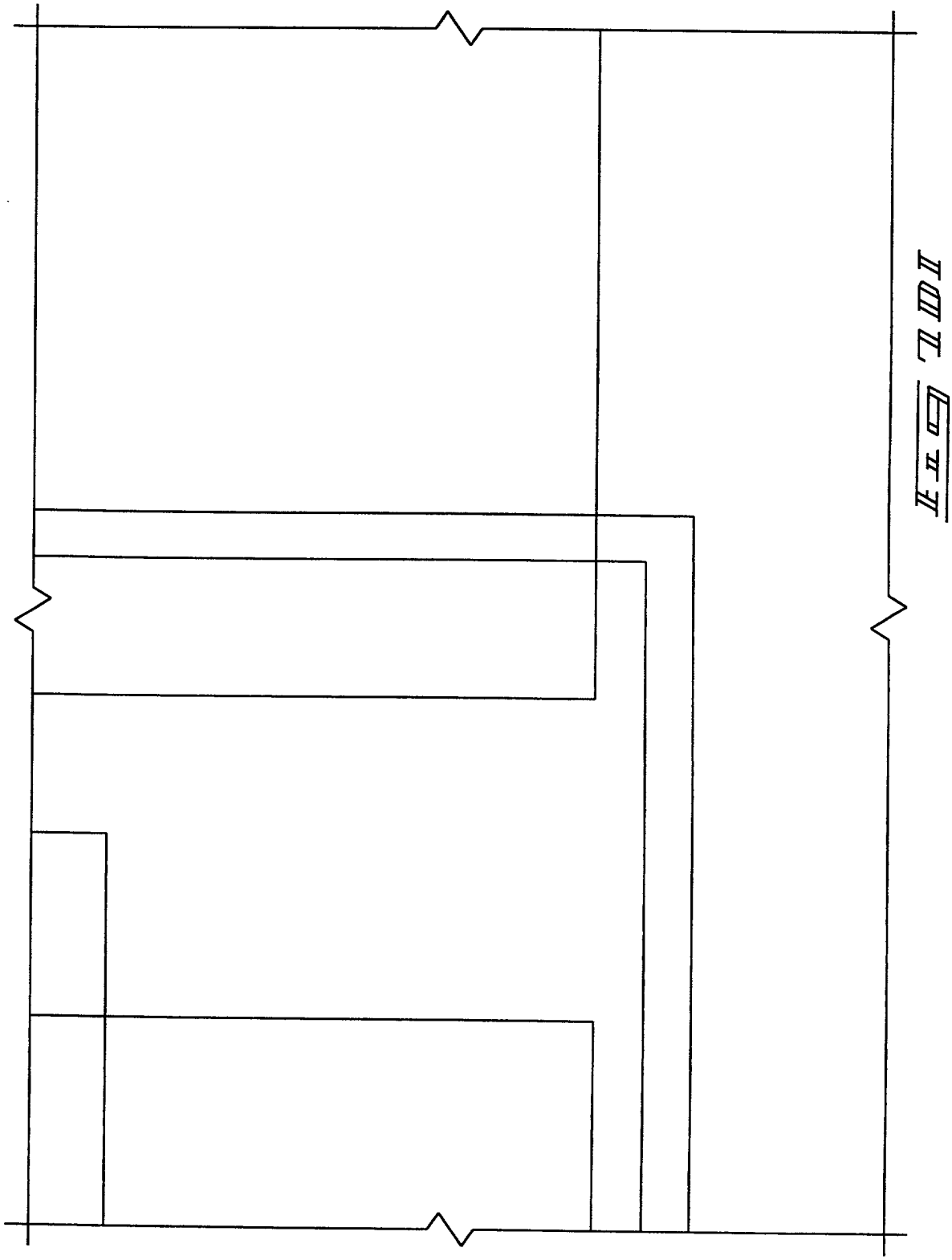
0959295 05 5454

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Подписано в печать 01.11.91

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09/12/1992 16:54 [illegible]

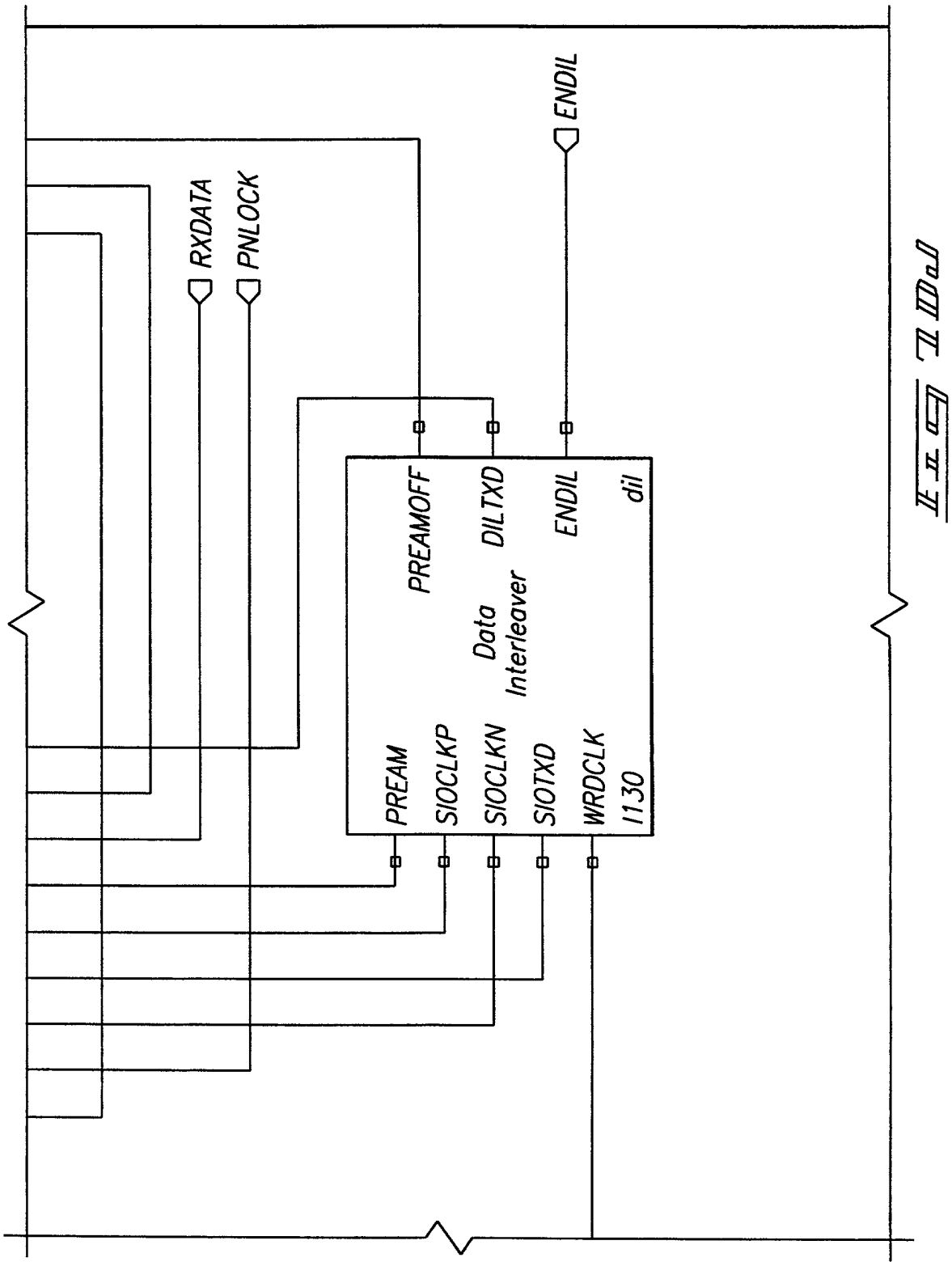
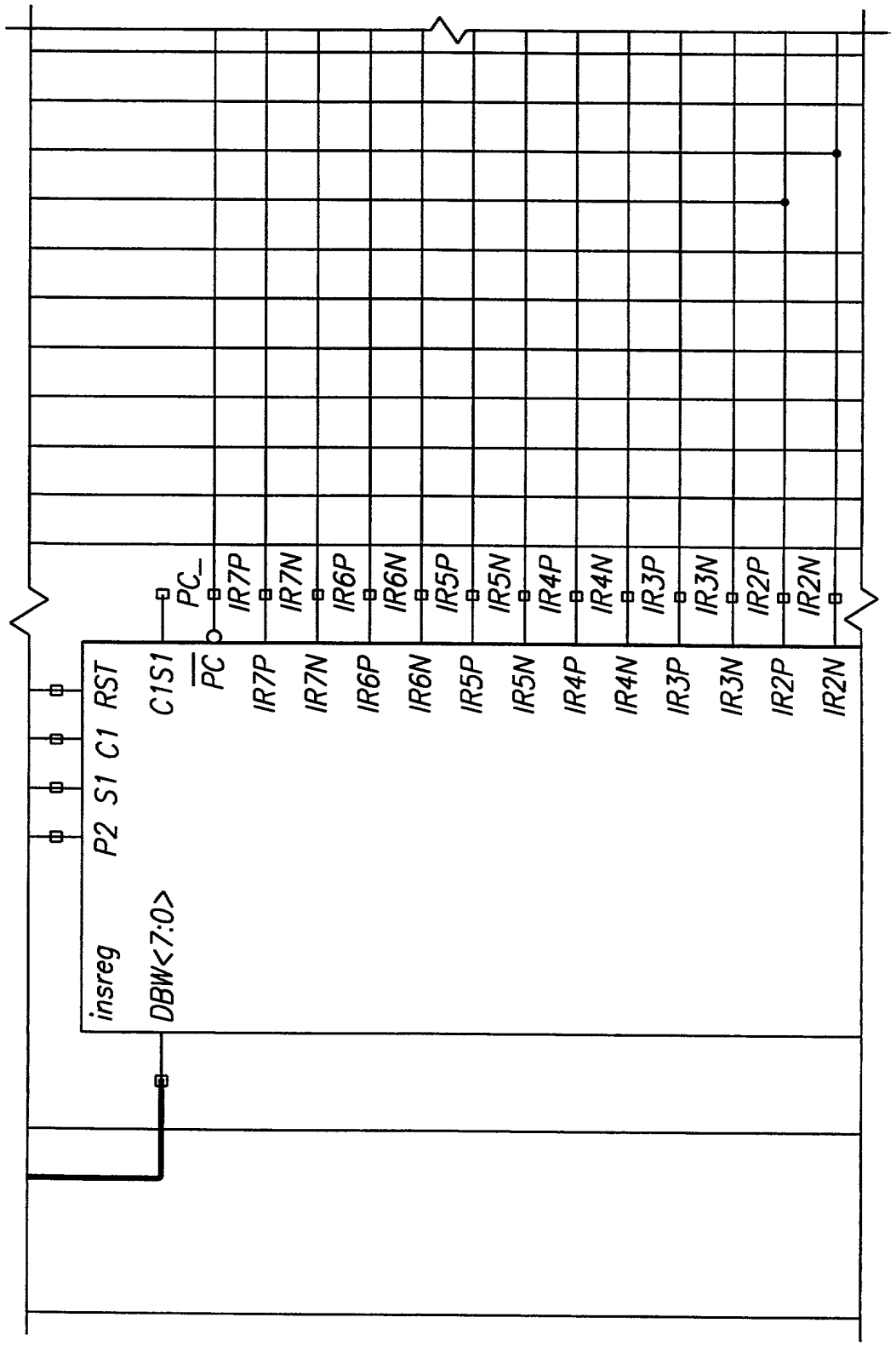

ENDIL
RXDATA
PNLOCK
PREAMOFF
DILTXD
ENDIL
dil
Data
Interleaver
PREAM
SIOCLKP
SIOCLKN
SIOTXD
WRDCLK
1130

FIG 11


insreg
DBW<7:0>
P2 S1 C1 RST
C1S1
PC
PC_
IR7P
IR7N
IR6P
IR6N
IR5P
IR5N
IR4P
IR4N
IR3P
IR3N
IR2P
IR2N

Фиг 11

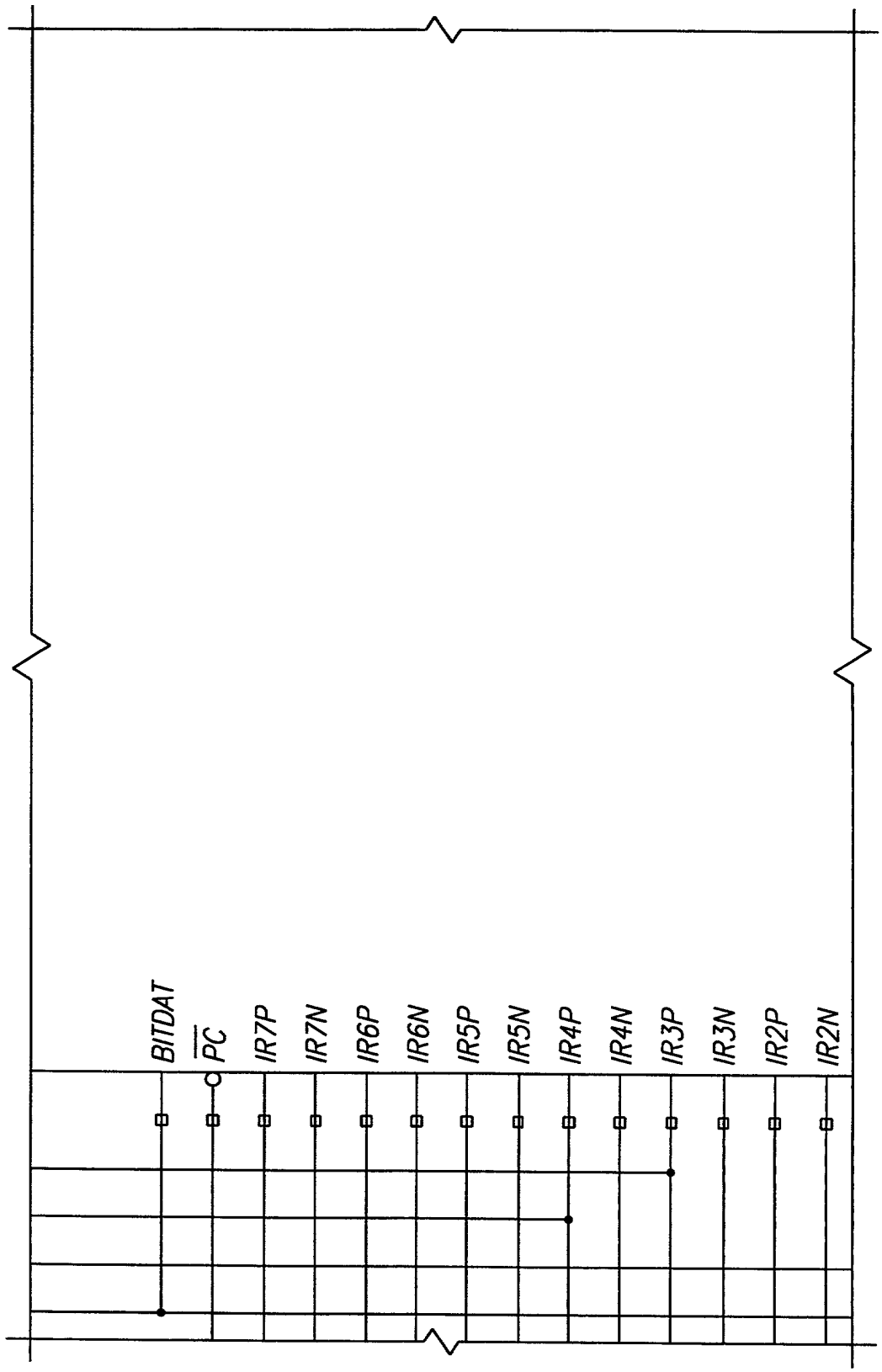


FIG 11

Interspace 95/3273

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Plan 59 - 59 - 59 -

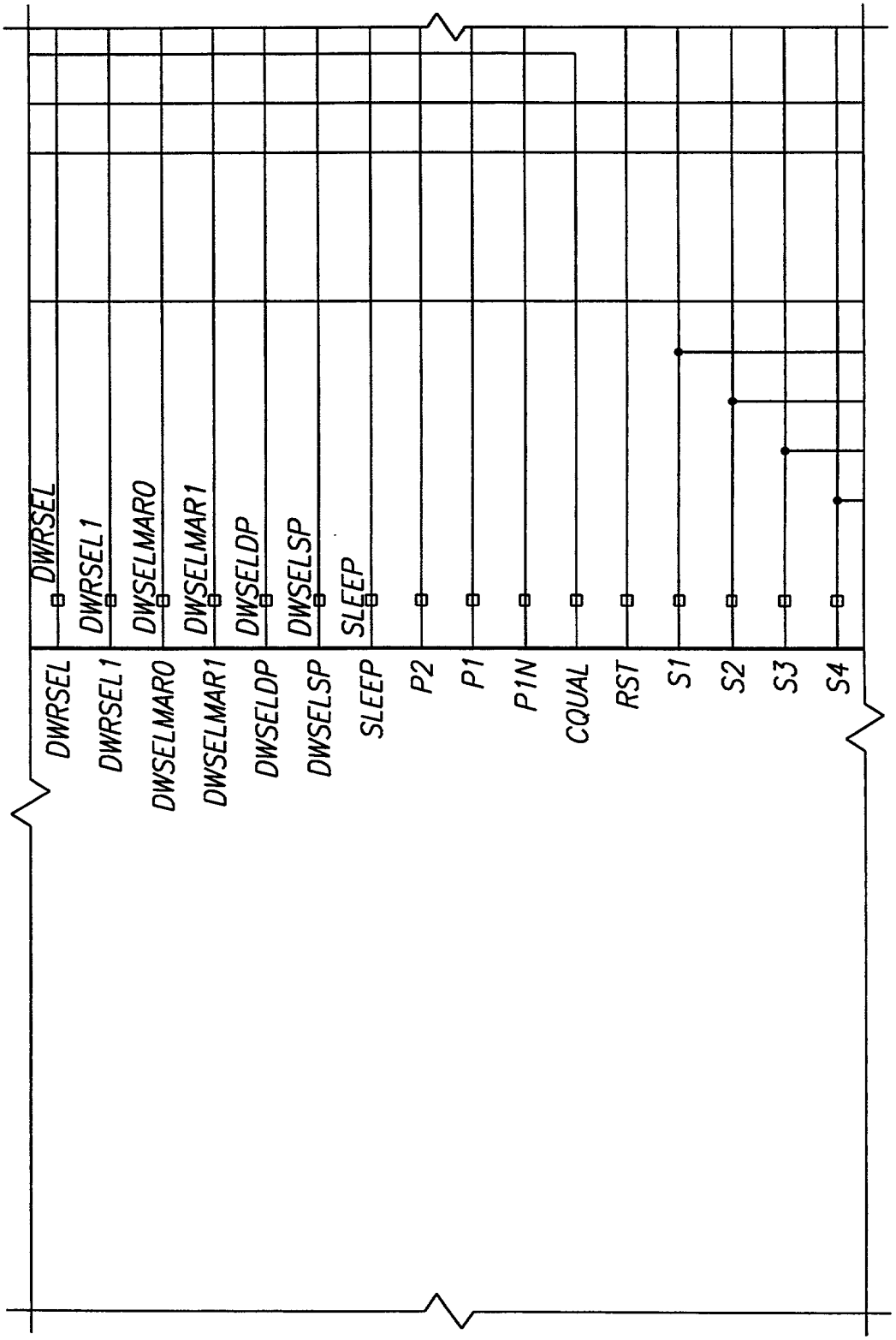


FIG 7E

replacement sheet

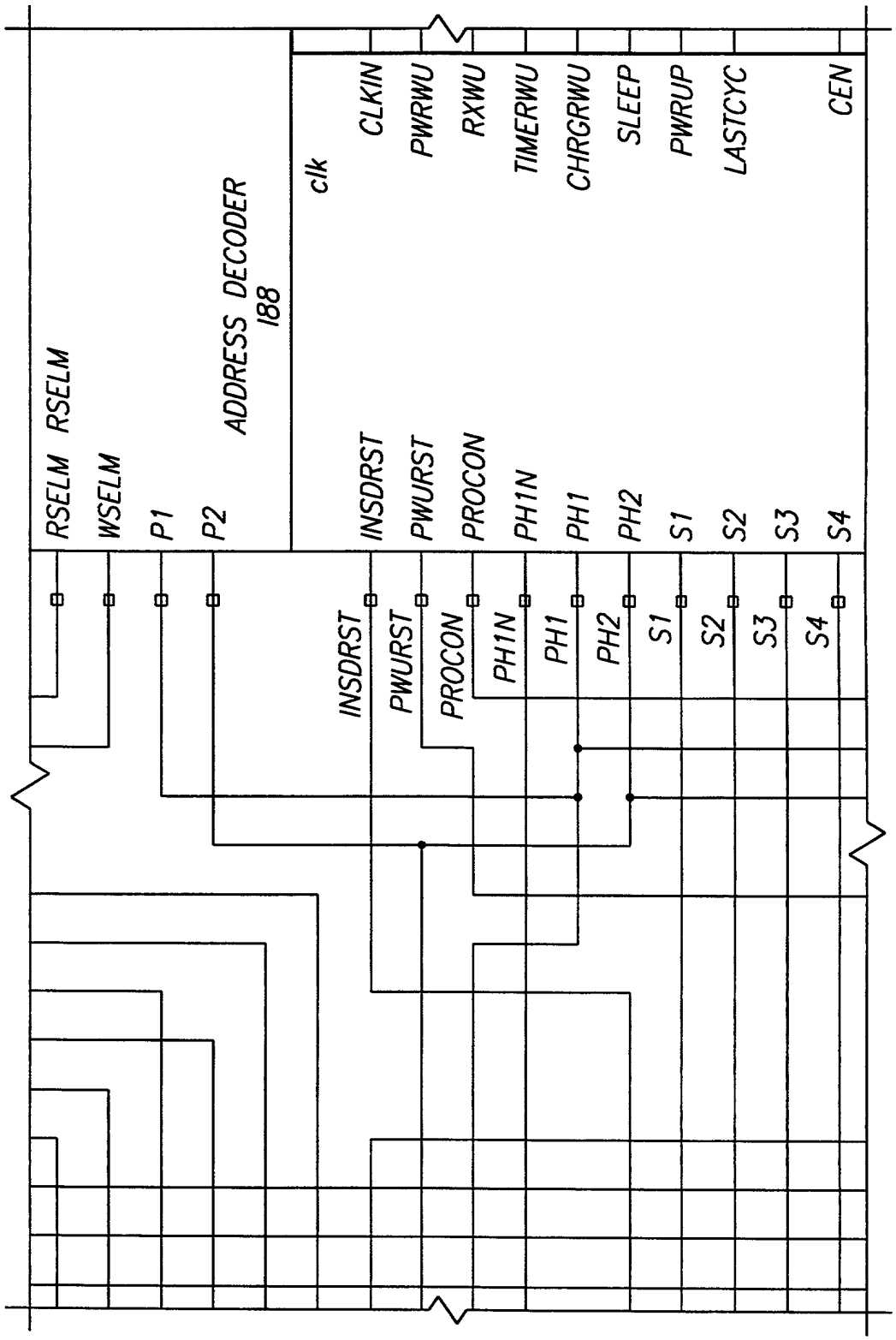
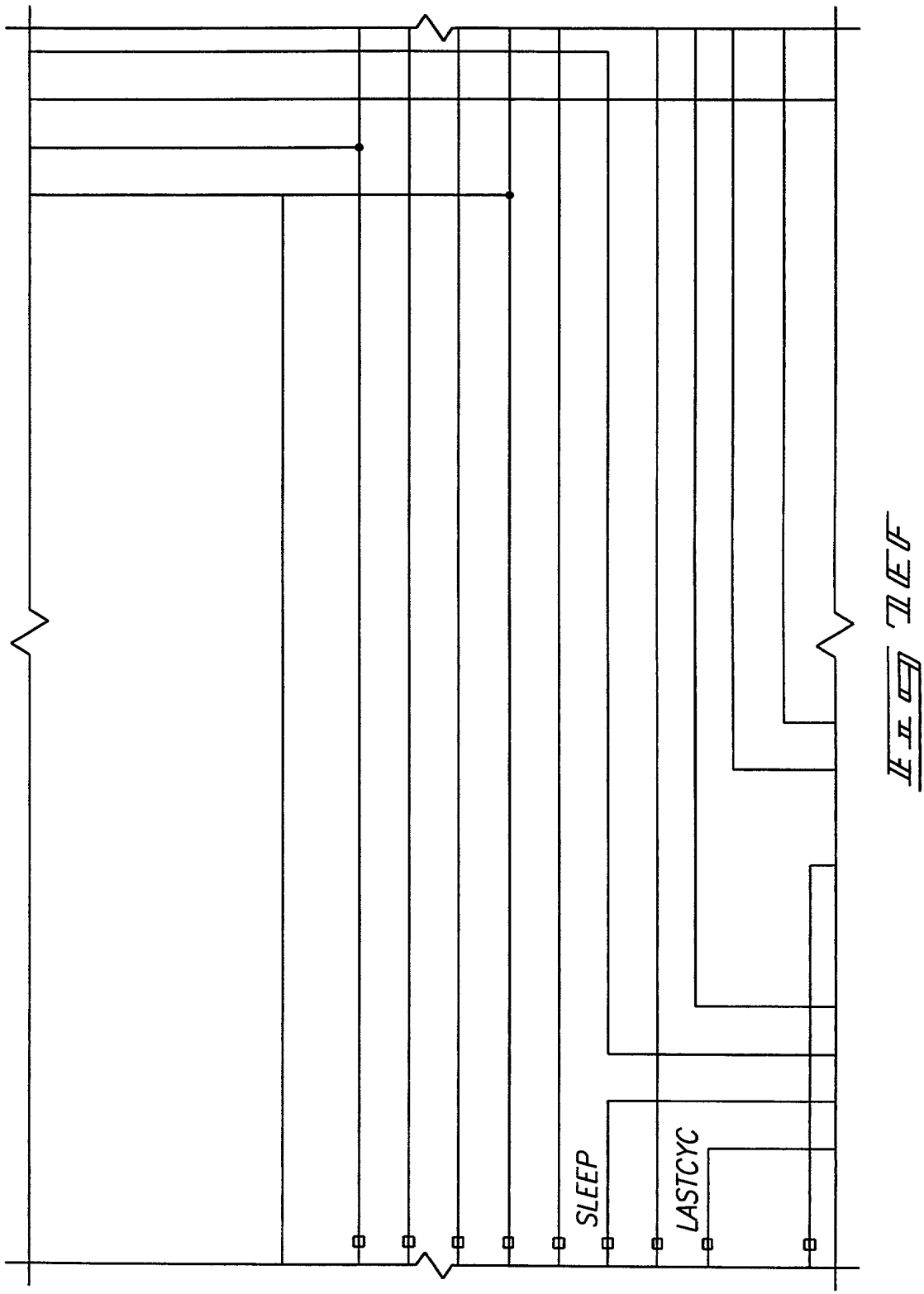
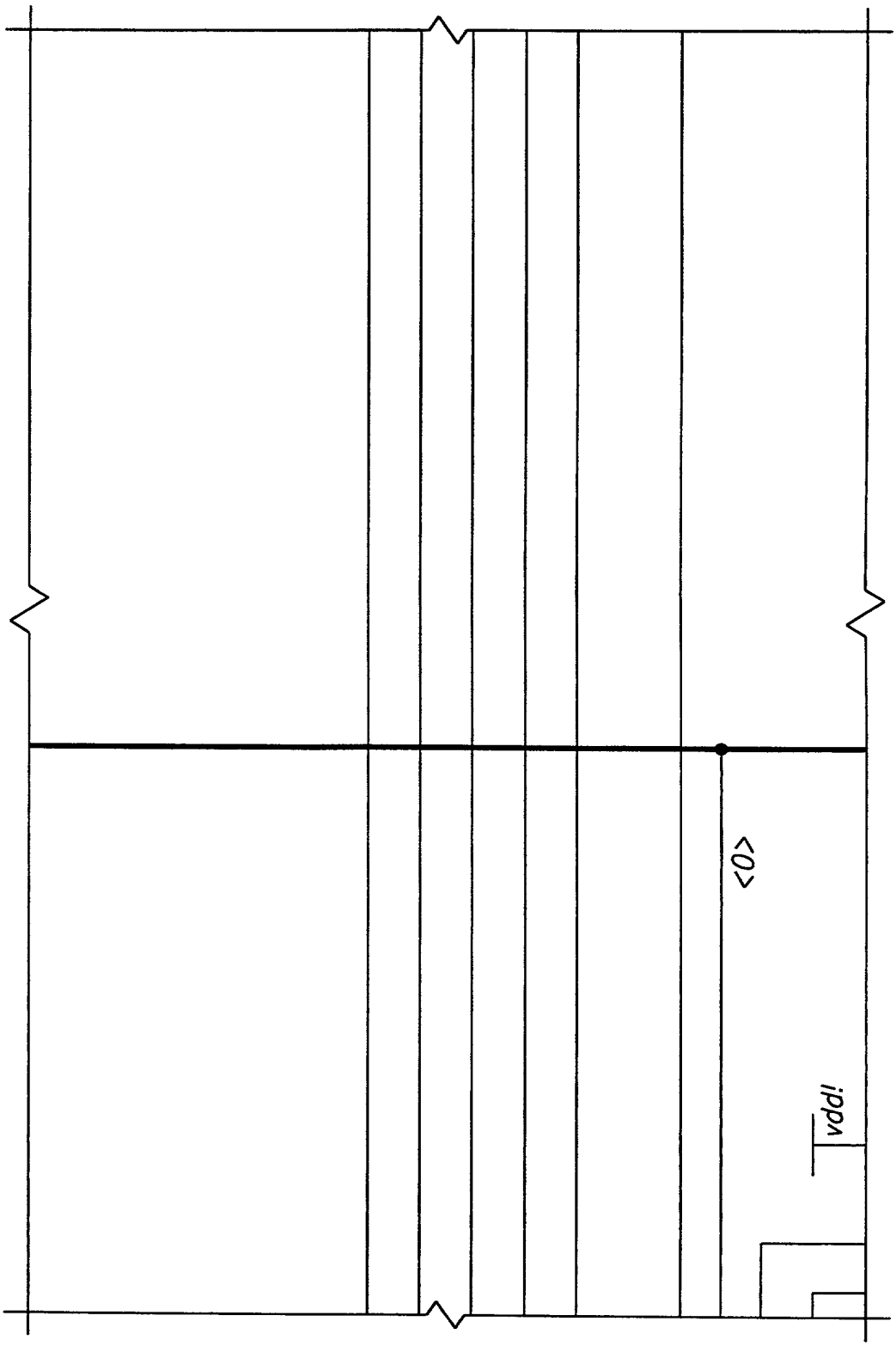

RSELM
WSELM
P1
P2
ADDRESS DECODER
188
clk
CLKIN
PWRWU
RXWU
TIMERWU
CHRGRWU
SLEEP
PWRUP
LASTCYC
CEN
INSDRST
PWURST
PROCON
PH1N
PH1
PH2
S1
S2
S3
S4

FIG 11E

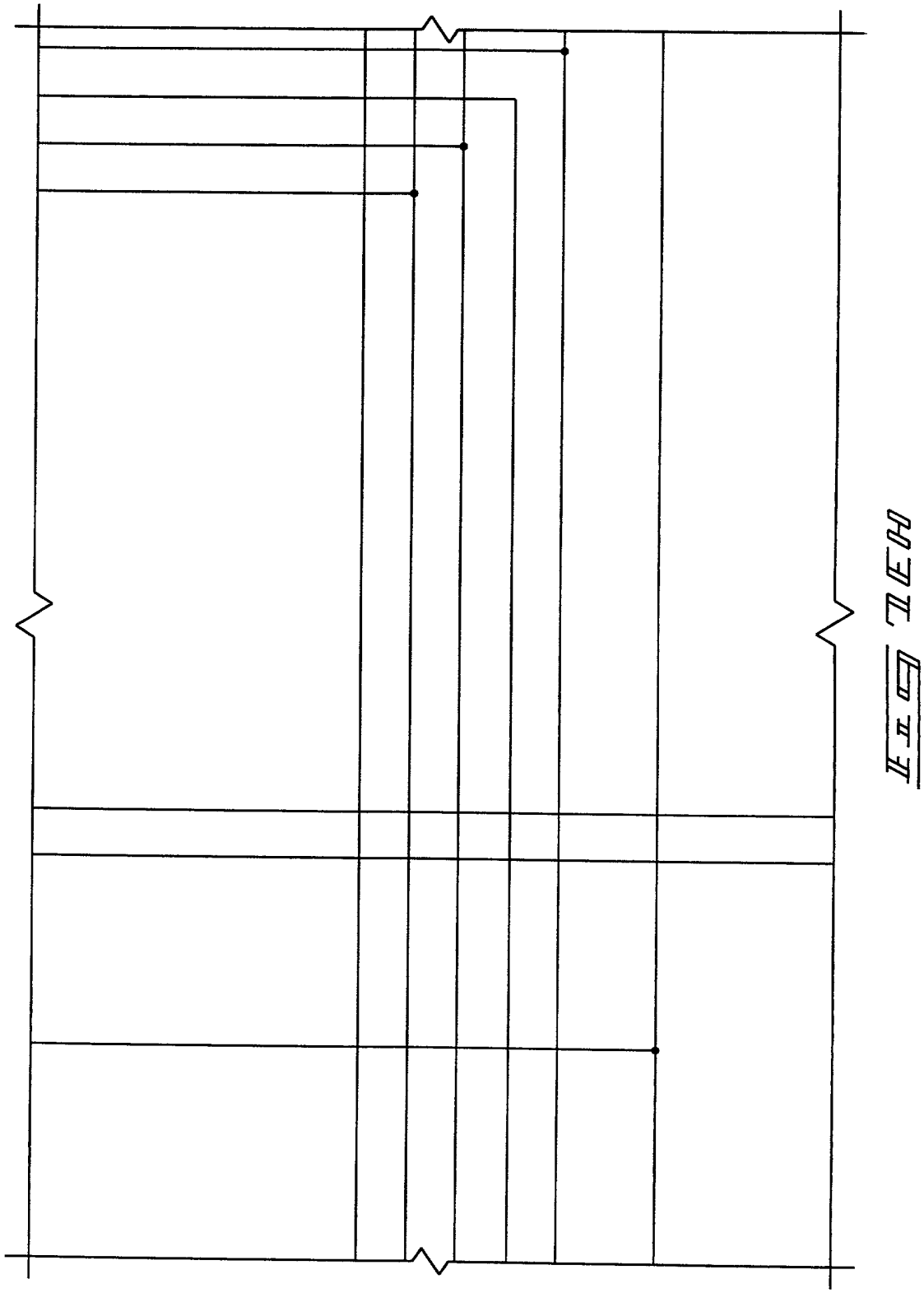


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EP 0 954 902 B1

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9 5 8 2 2 0 5 5 - 5 5 4 5 0 4

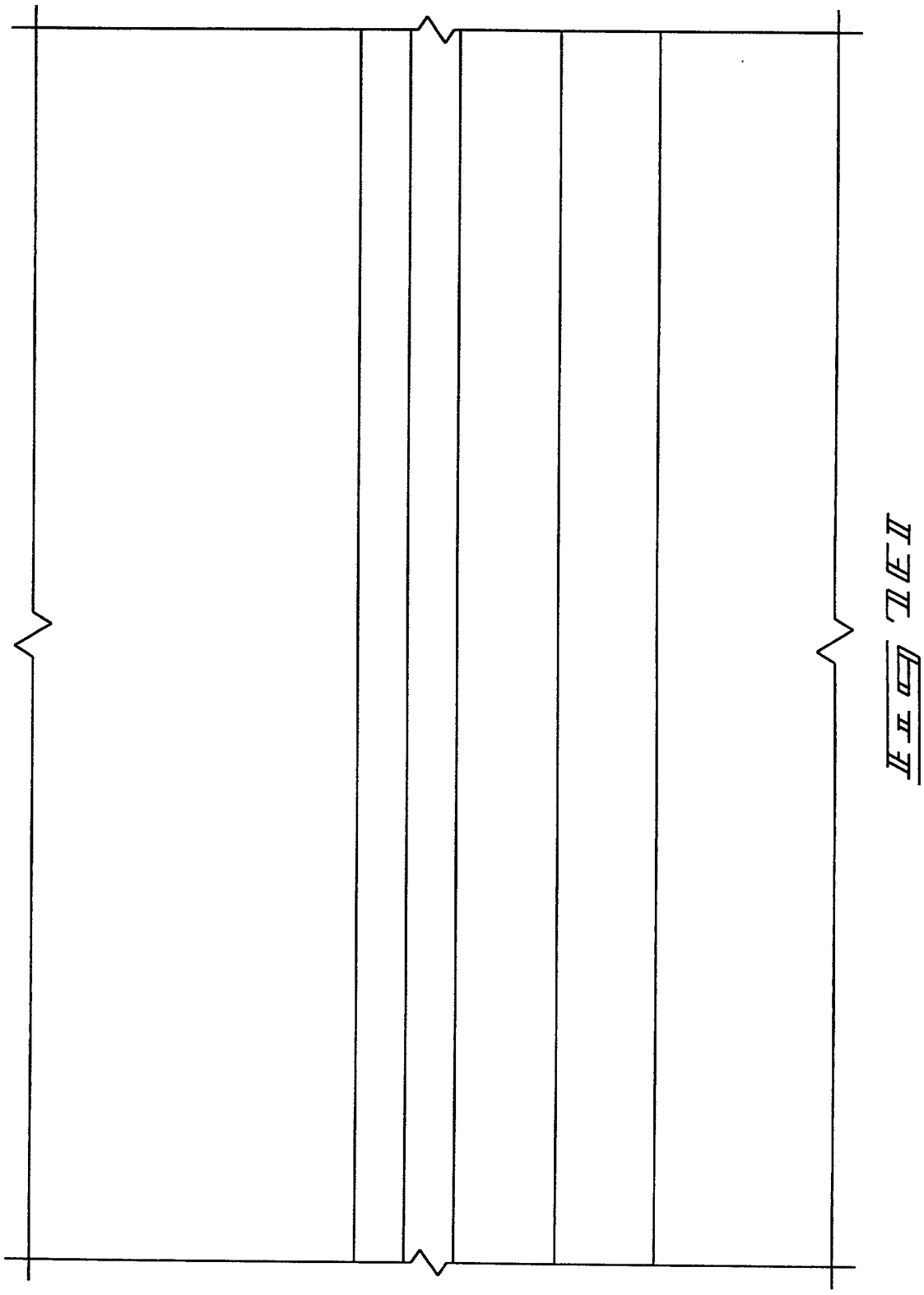


FIG 6a

0962026 - 05/14/04

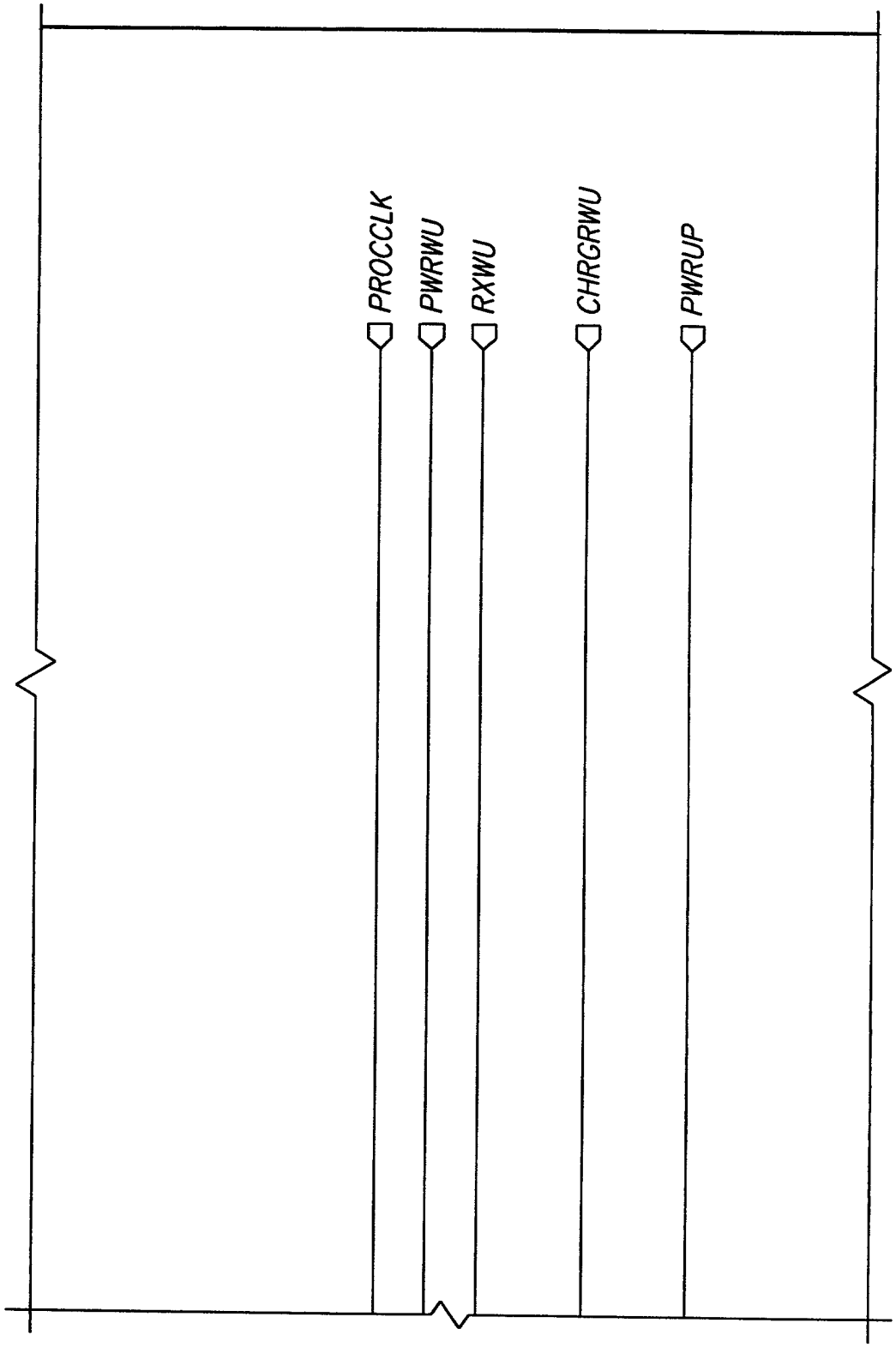


Fig 11

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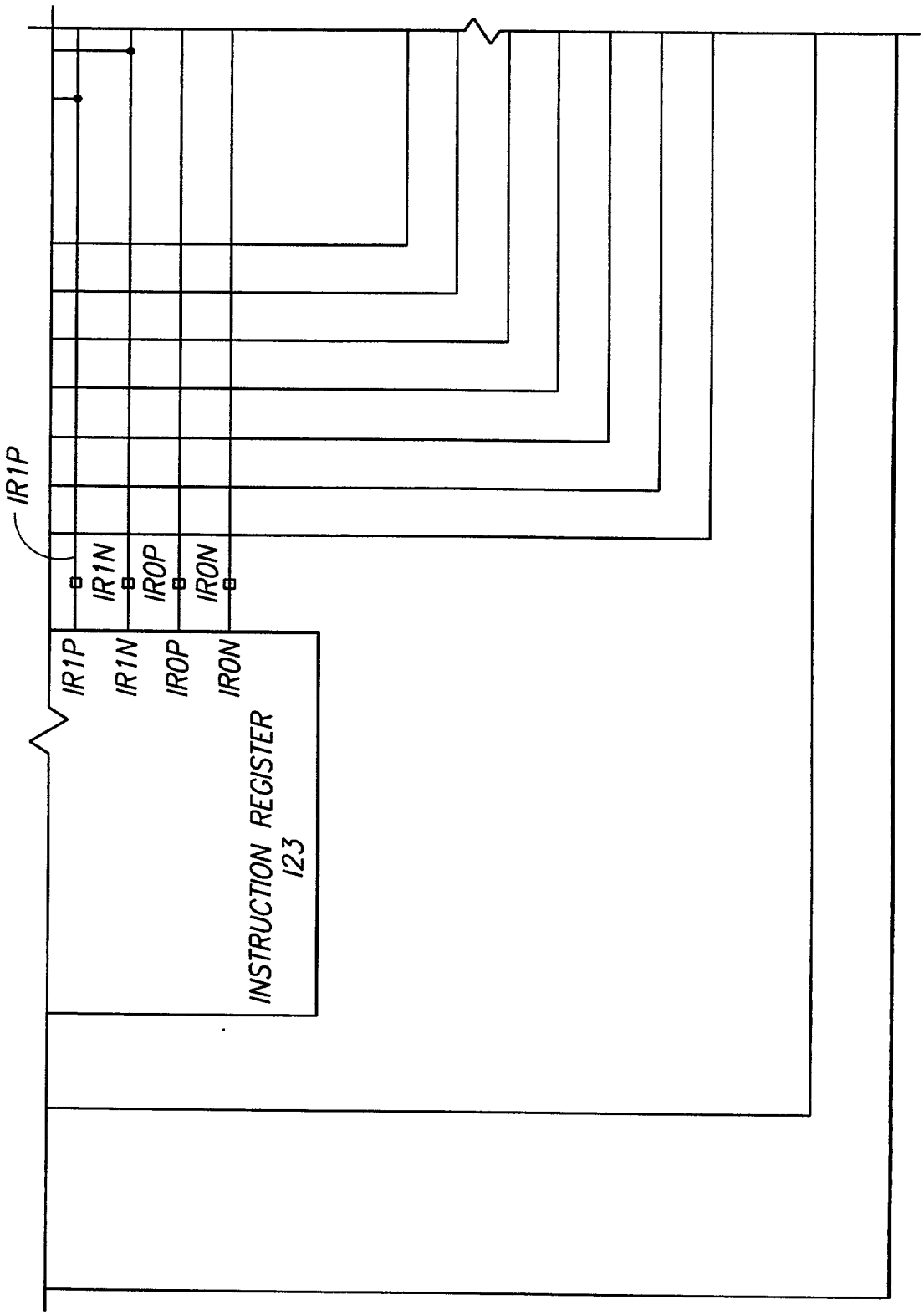

IR1P
IR1N
IR0P
IR0N
IR1P
IR1N
IR0P
IR0N
INSTRUCTION REGISTER
123

Fig 11A

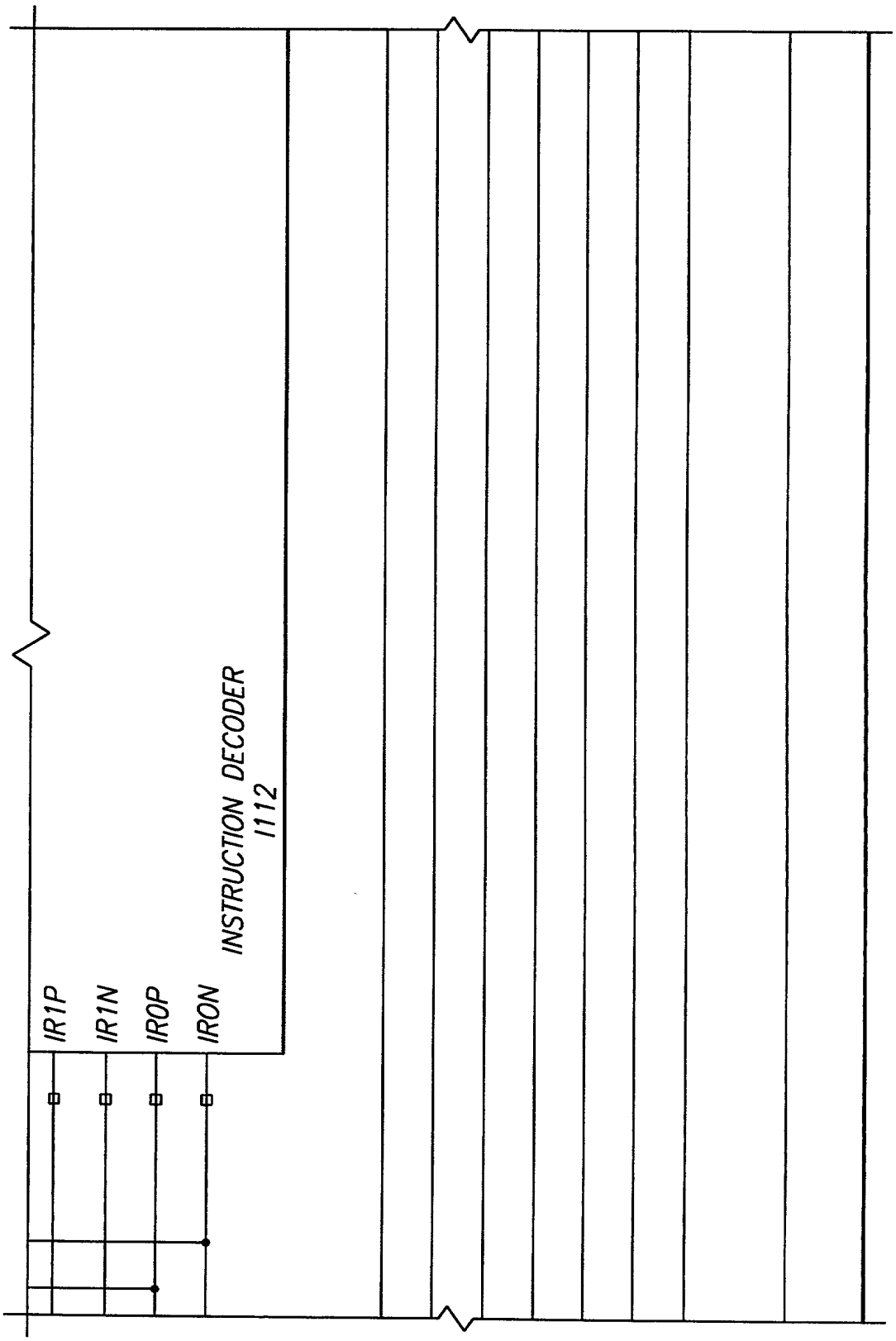


FIG 5B

0015150 • 20050940

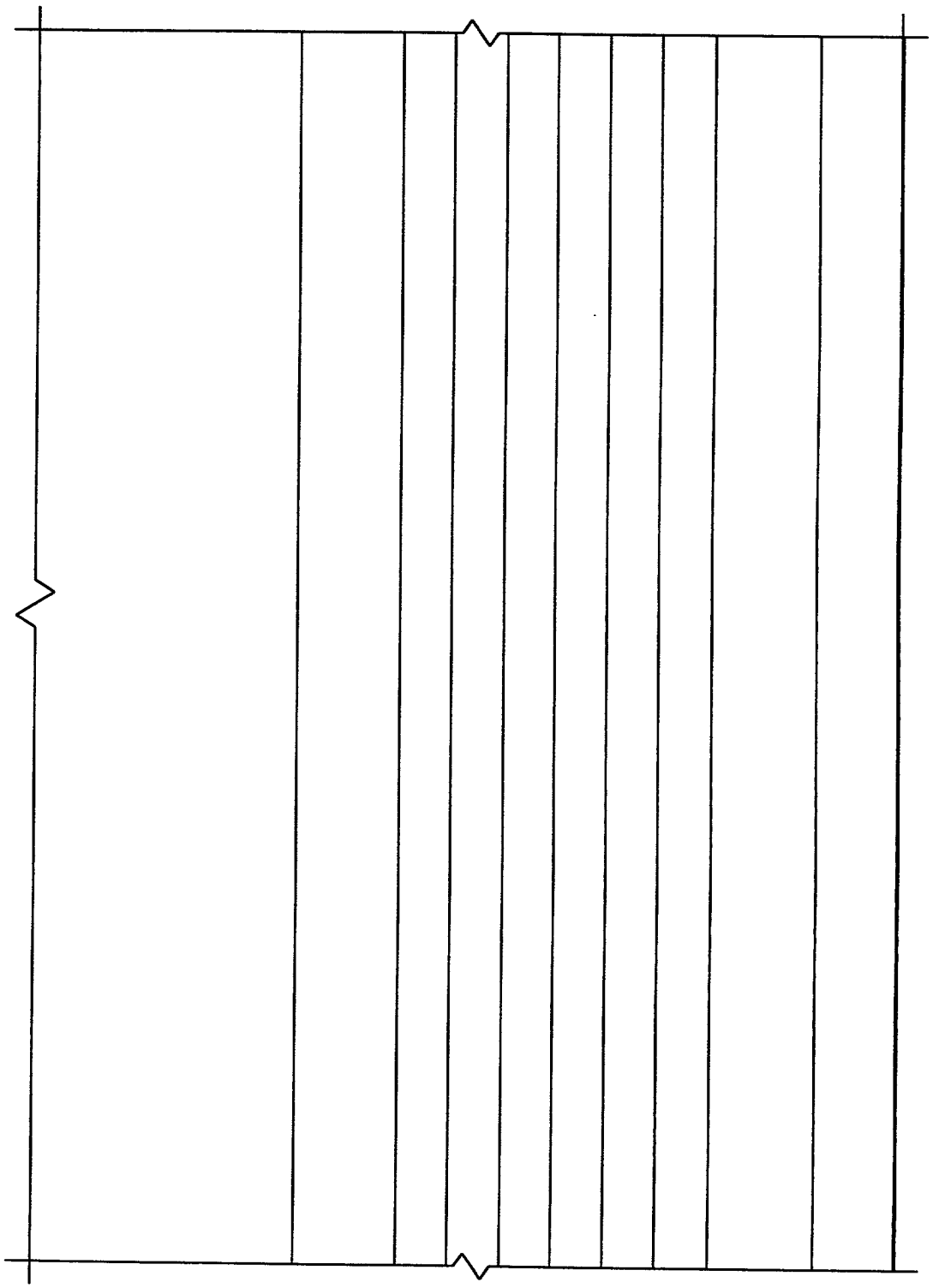
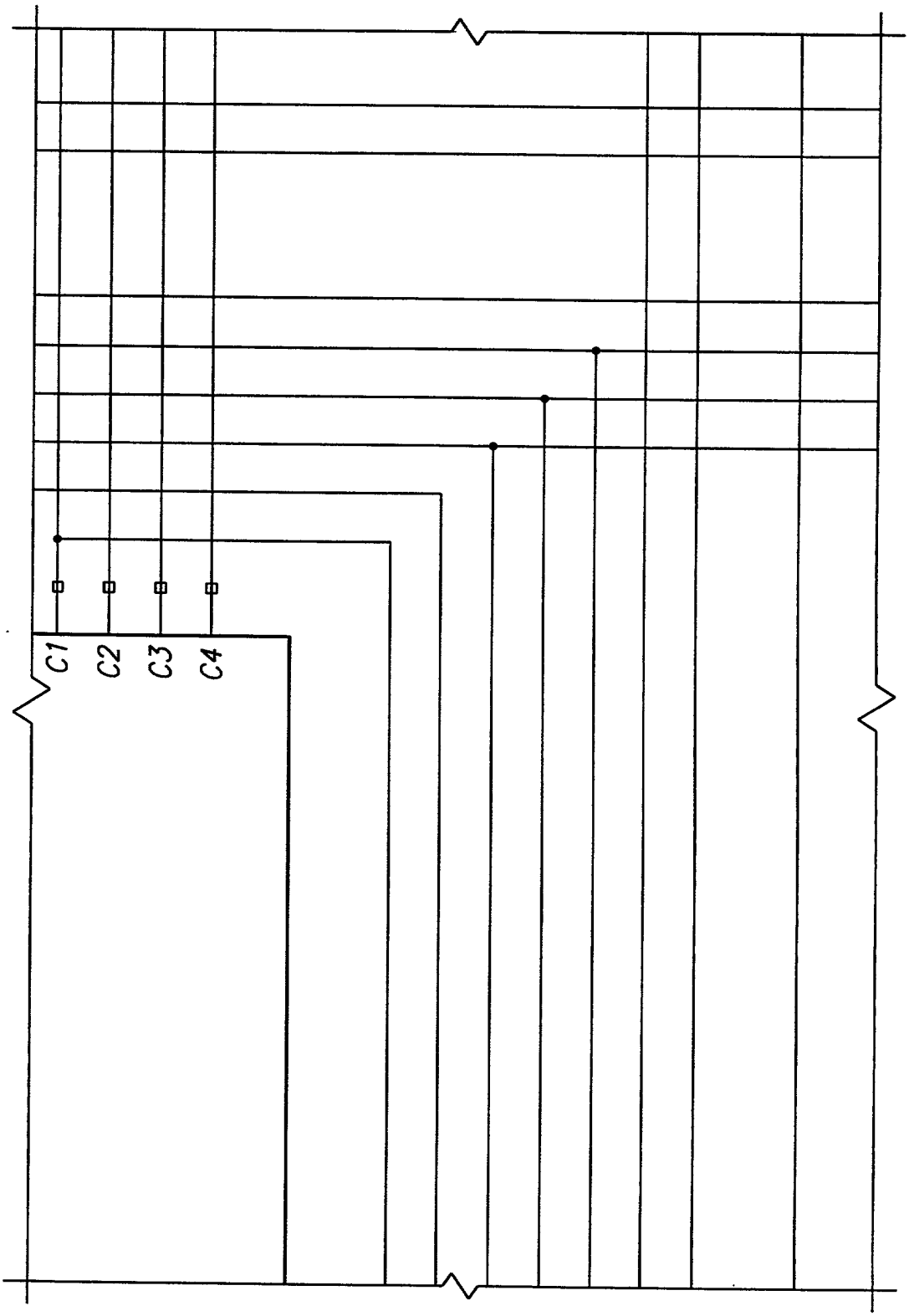
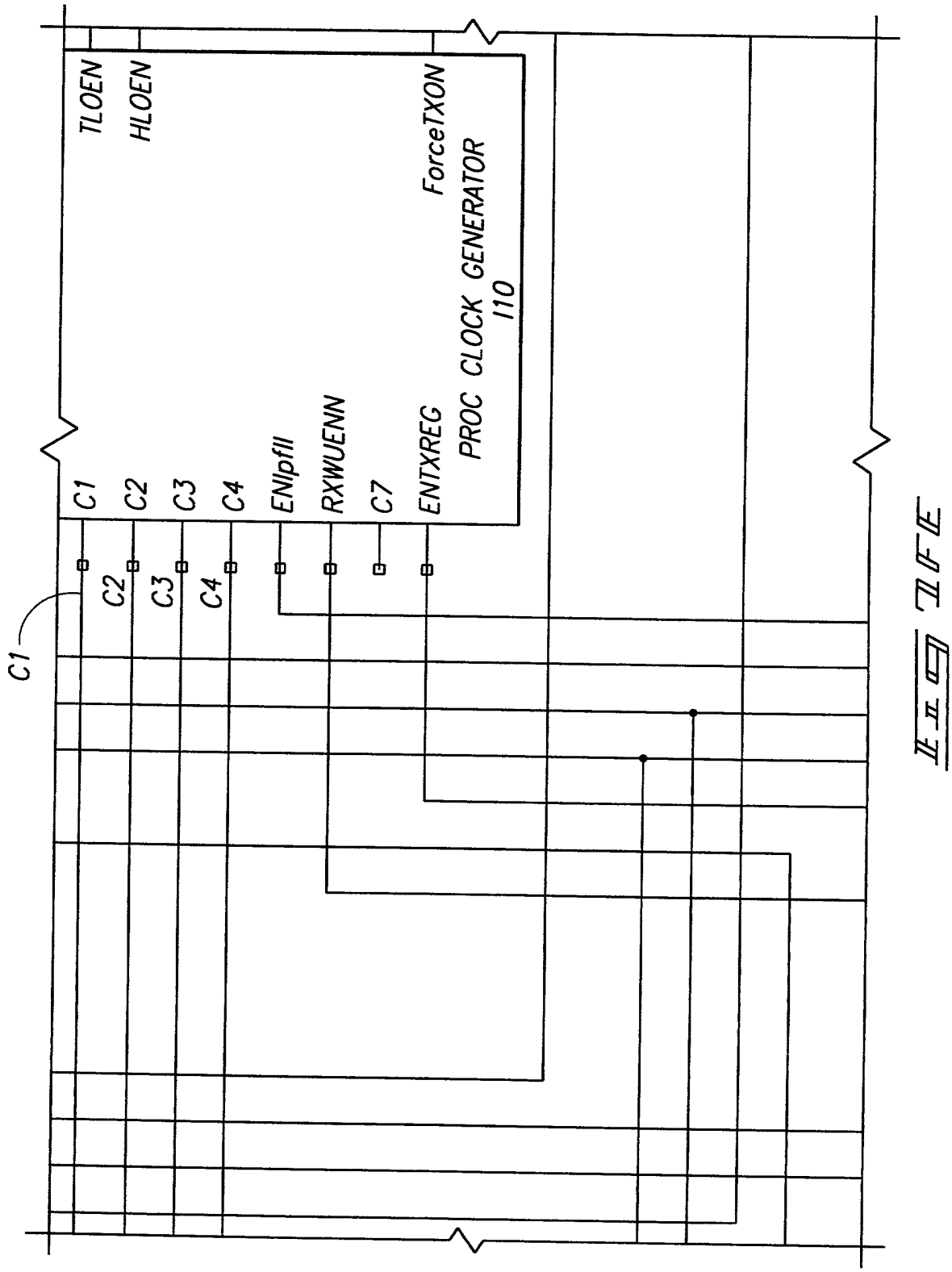


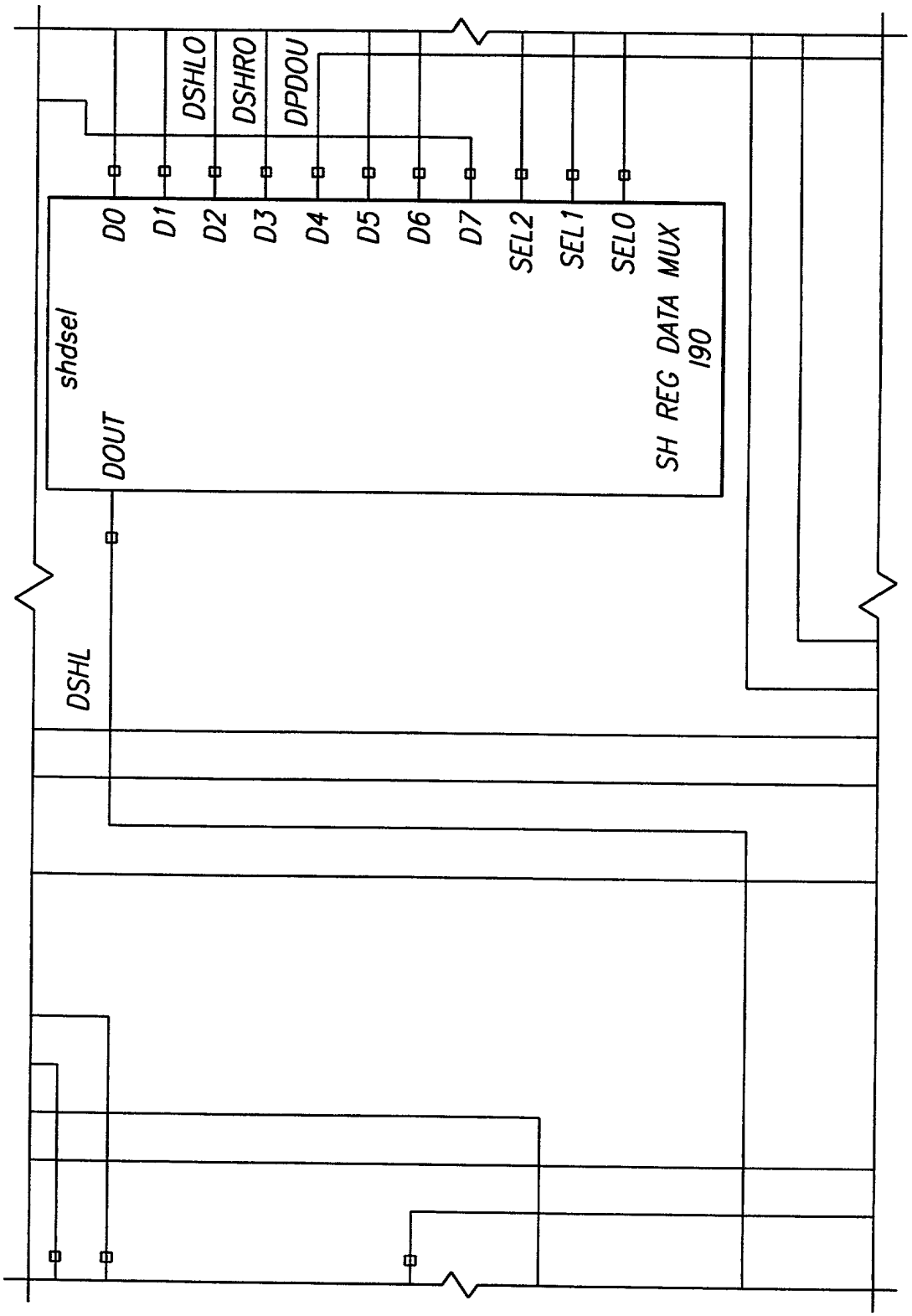
Fig 3A

EP 0 992 265 A1



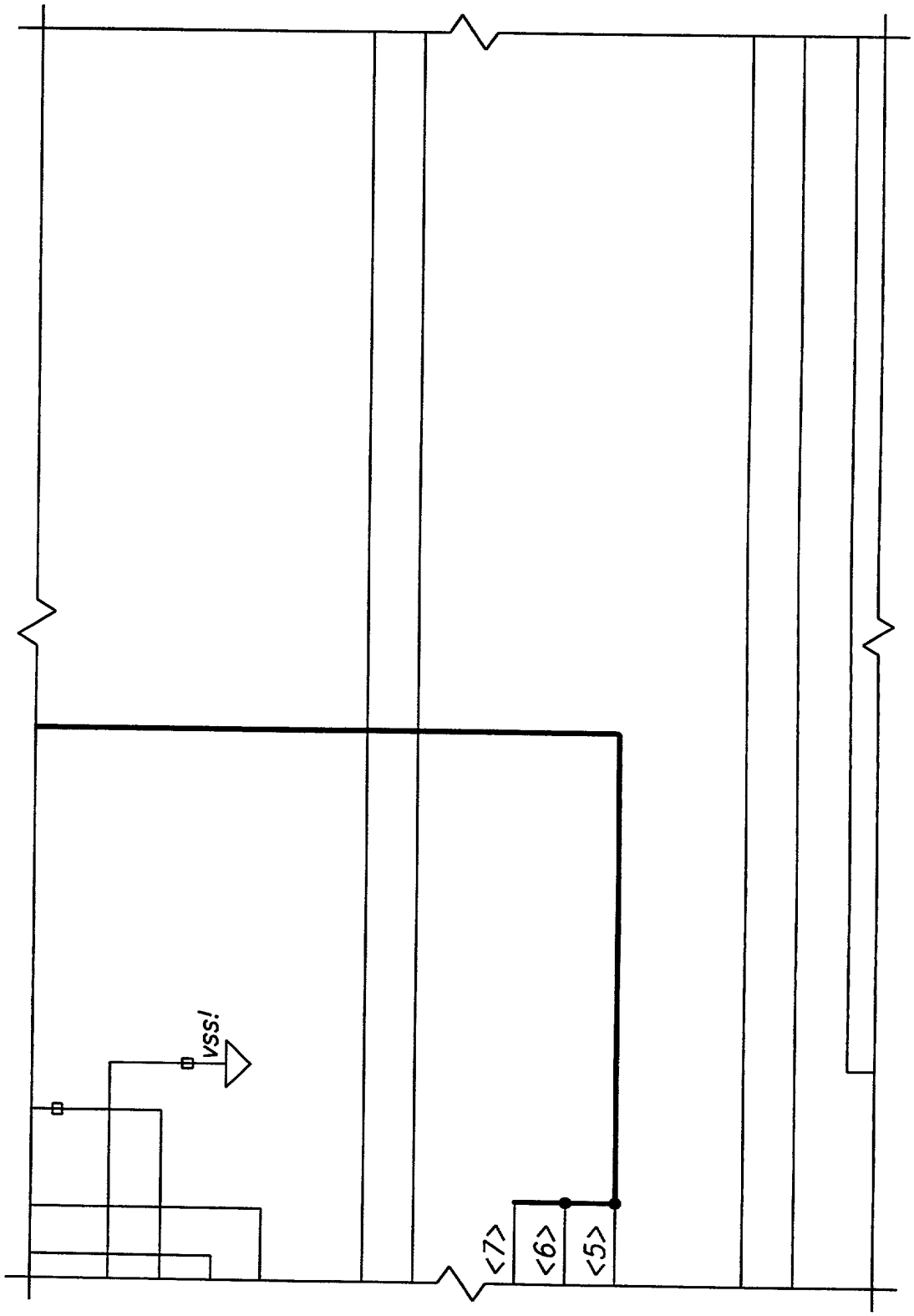
RU2150145C1 20000520


TLOEN
HLOEN
ForceTXON
PROC CLOCK GENERATOR
110
C1
C2
C3
C4
ENIpfII
RXWUENN
C7
ENTXREG
C1
C2
C3
C4
FIG 11E



Фиг 11F

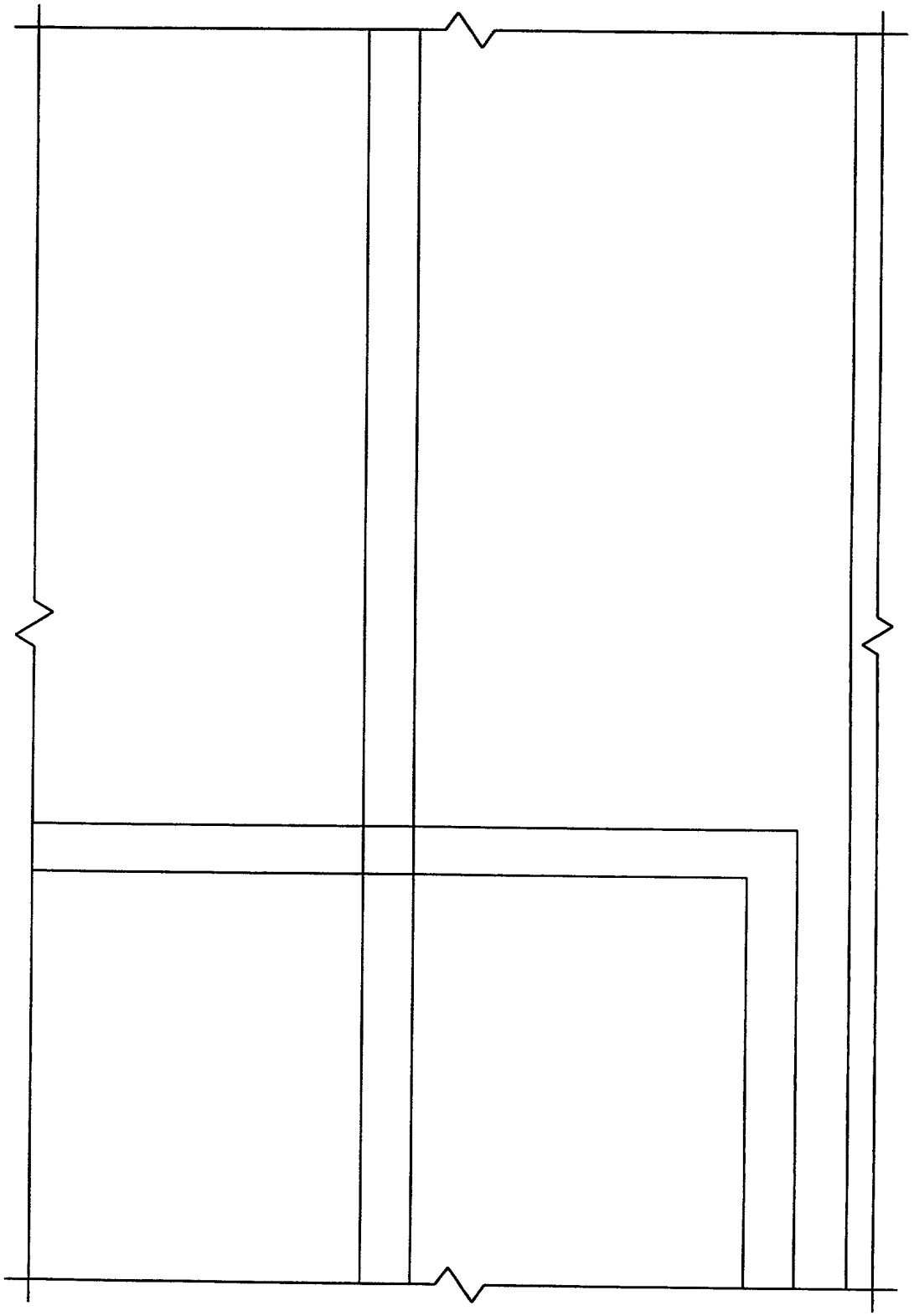
EP 0 952 595 A1



Фиг 6

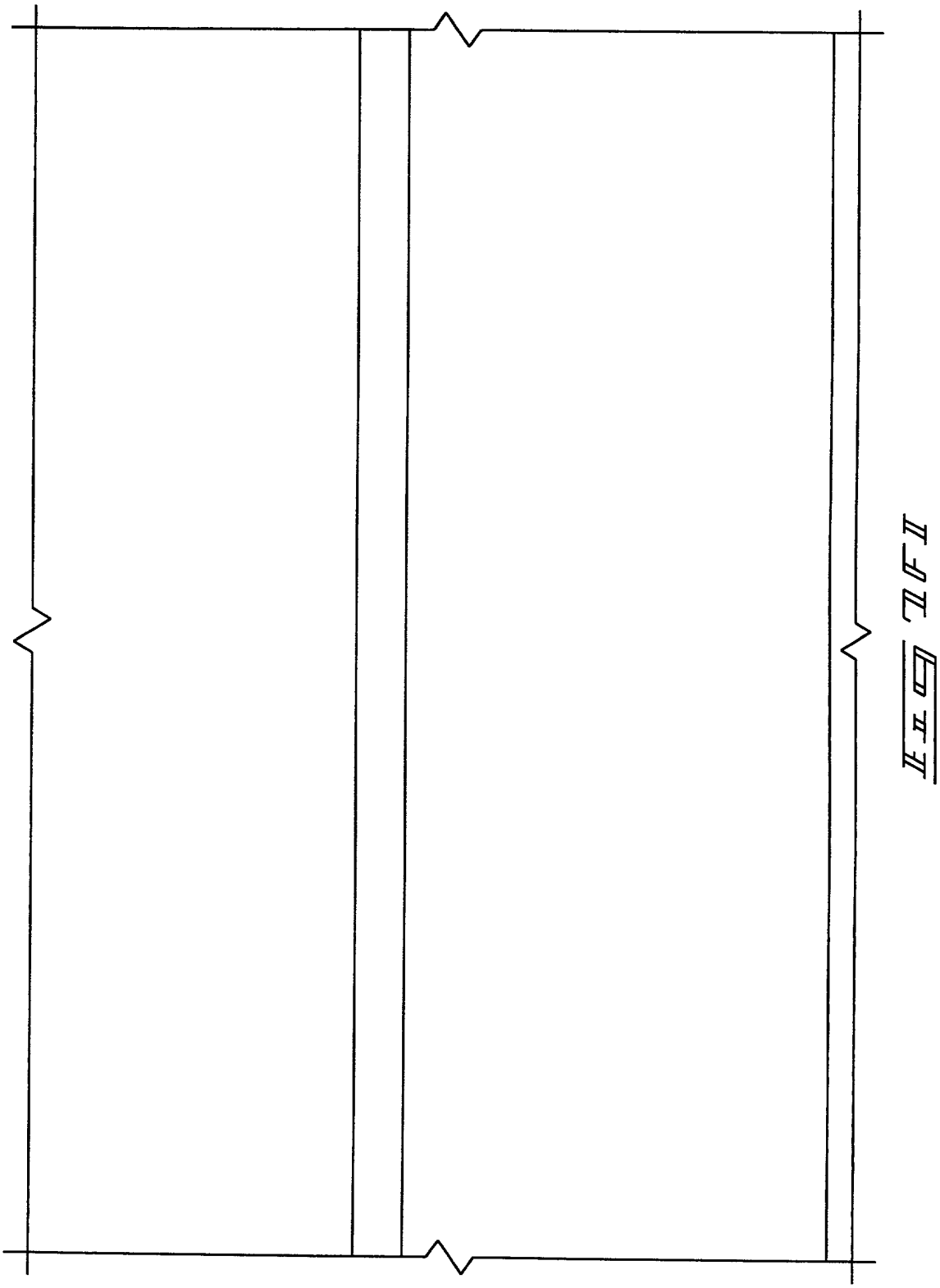
ТОЛКОВЫЙ ПЕРЕВОД

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Инв. № 59-2-2359-0

112/3273



0960205 - 05/10/96

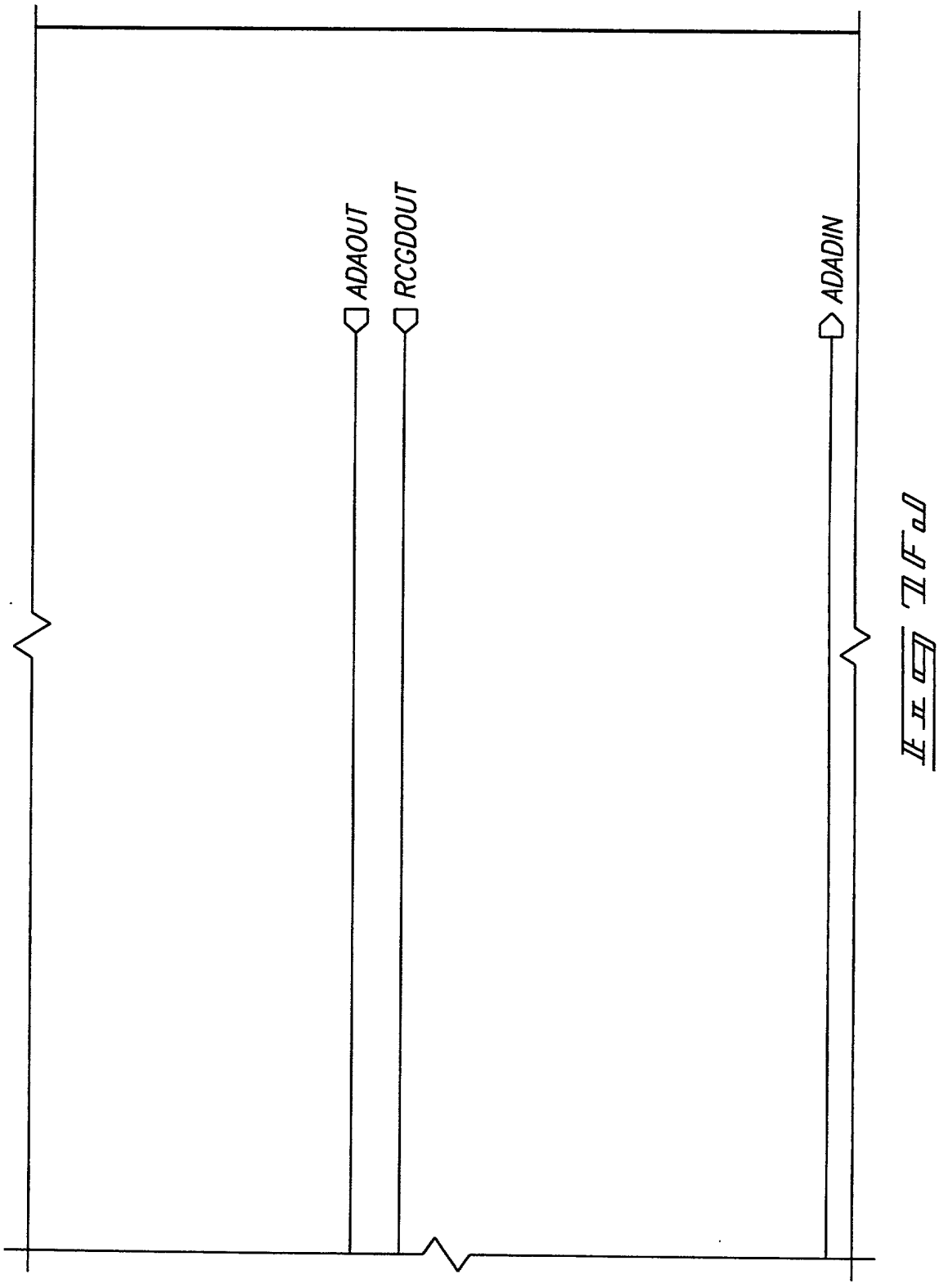
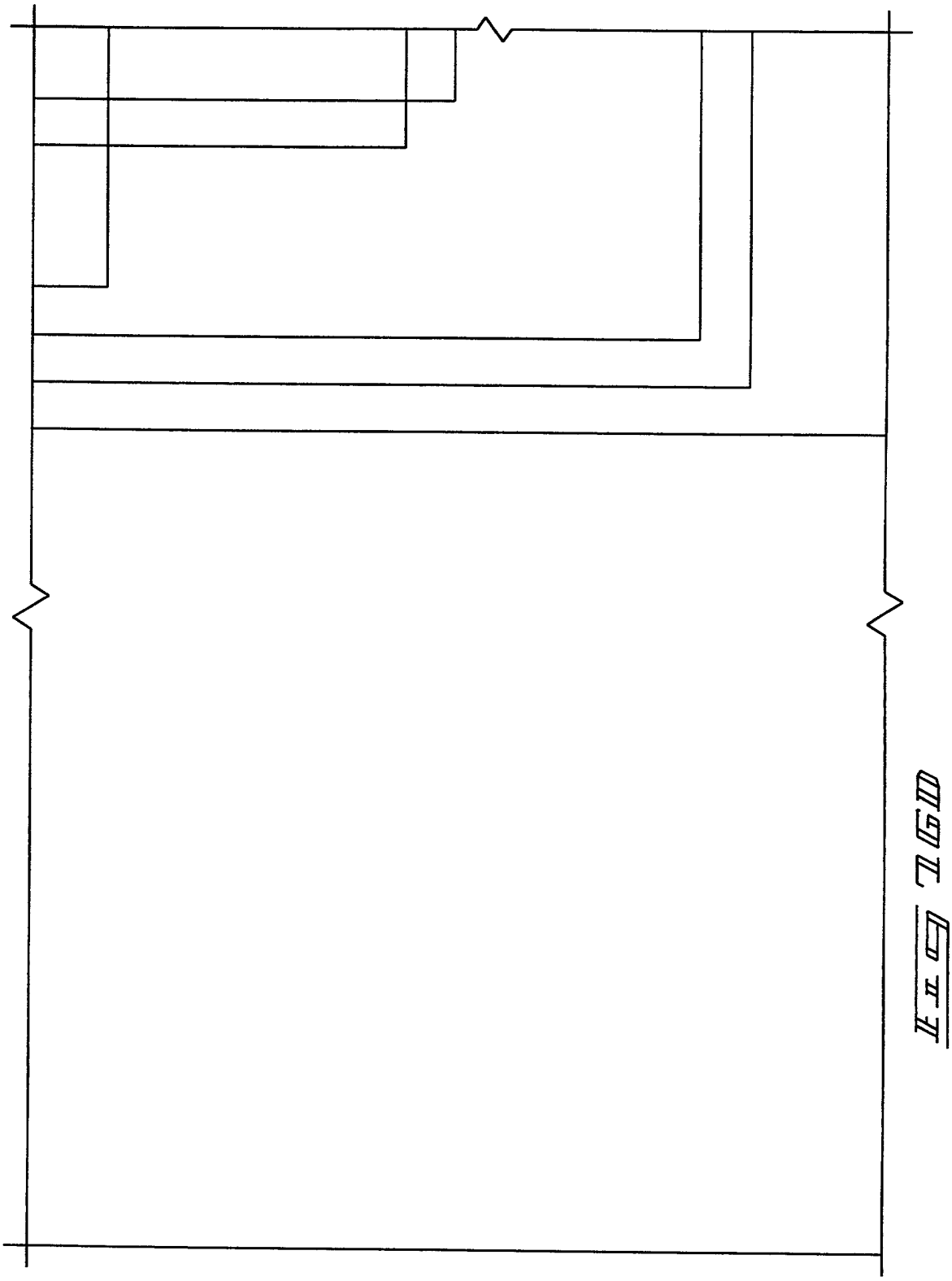
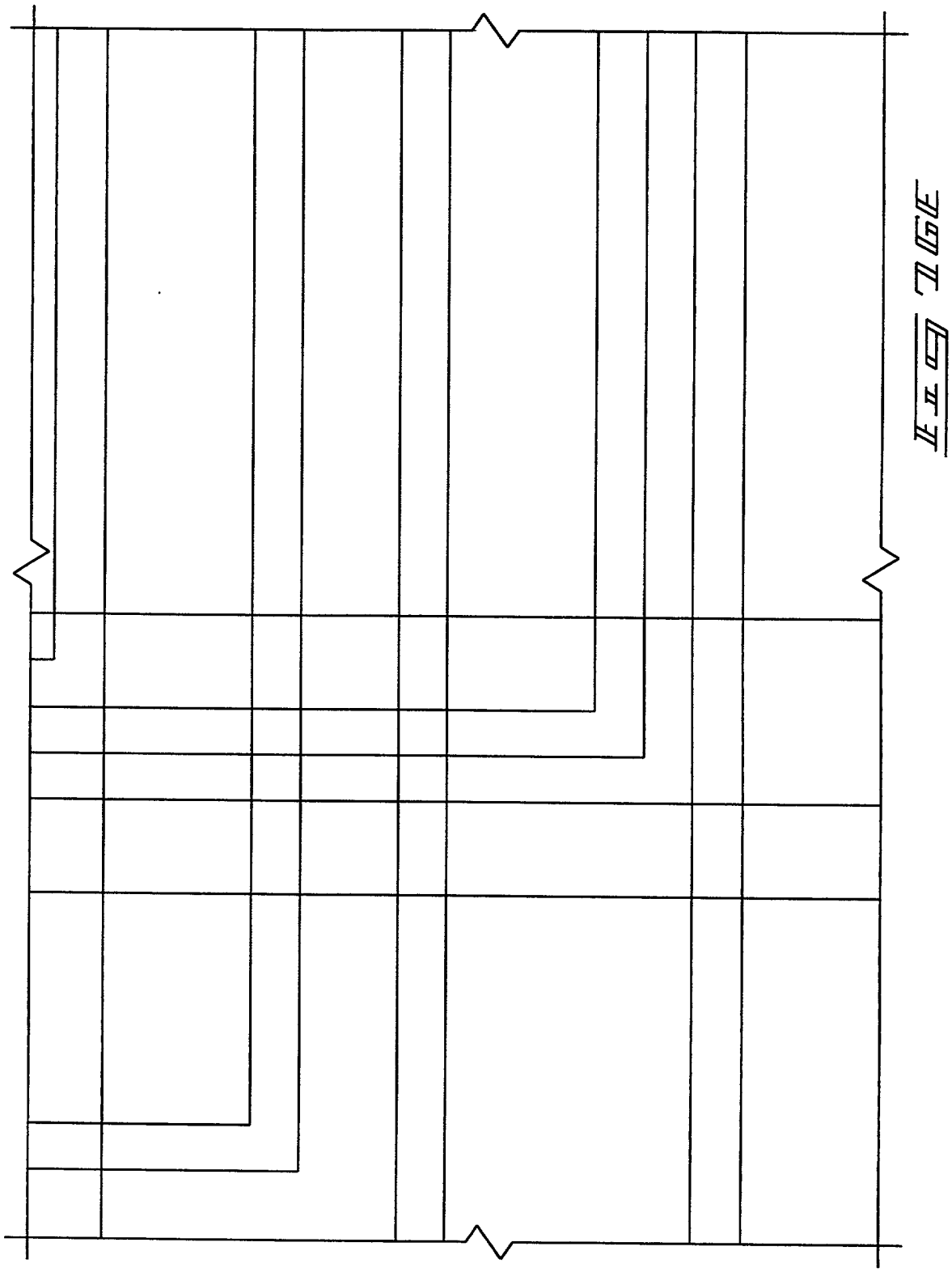


FIG 31

Petitioners Exhibit 1004

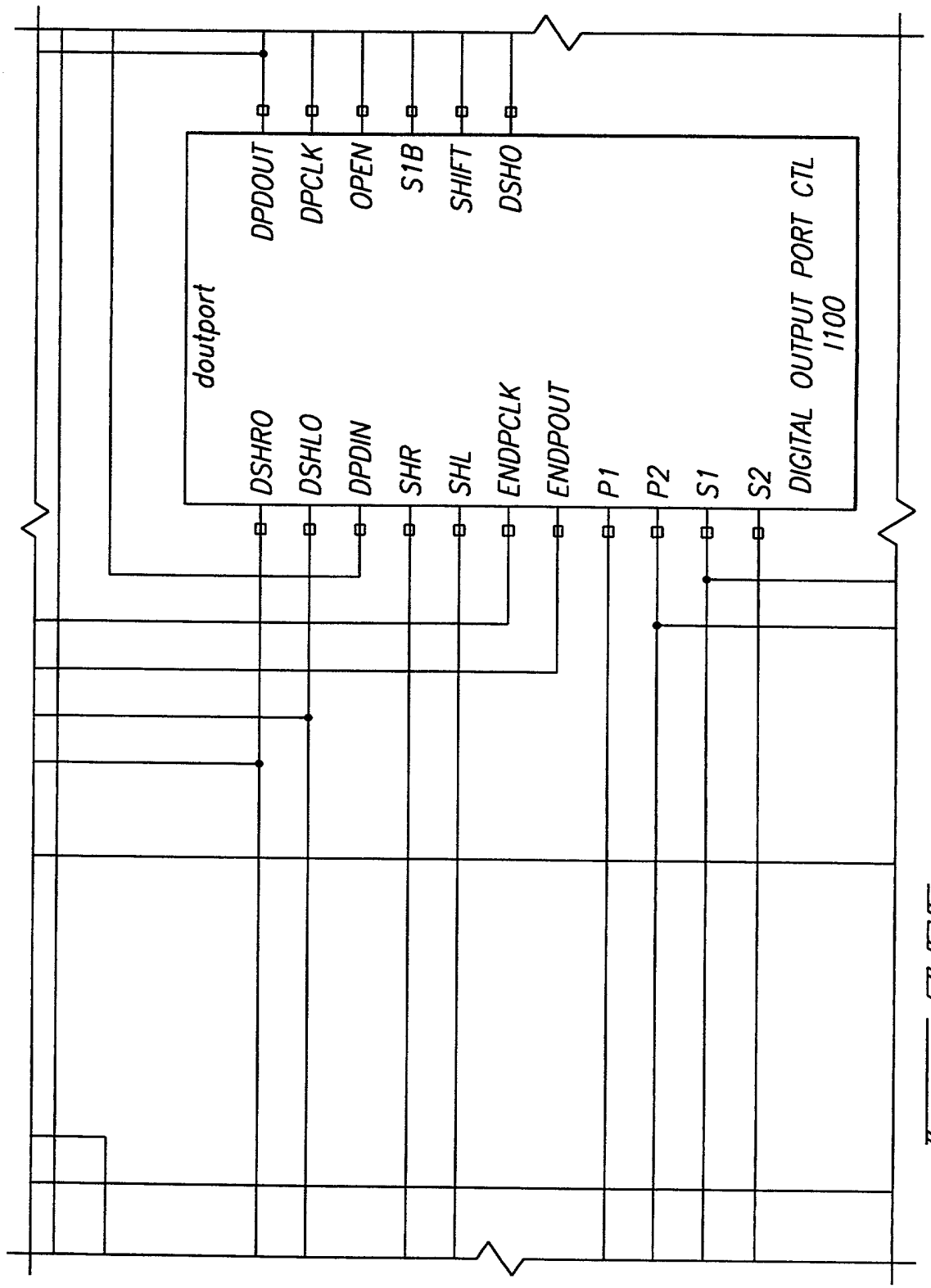


4,359,595 - 05/15/2012



ЭЛЕМЕНТ

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Фиг. 59

Patentscope - 05.11.2009

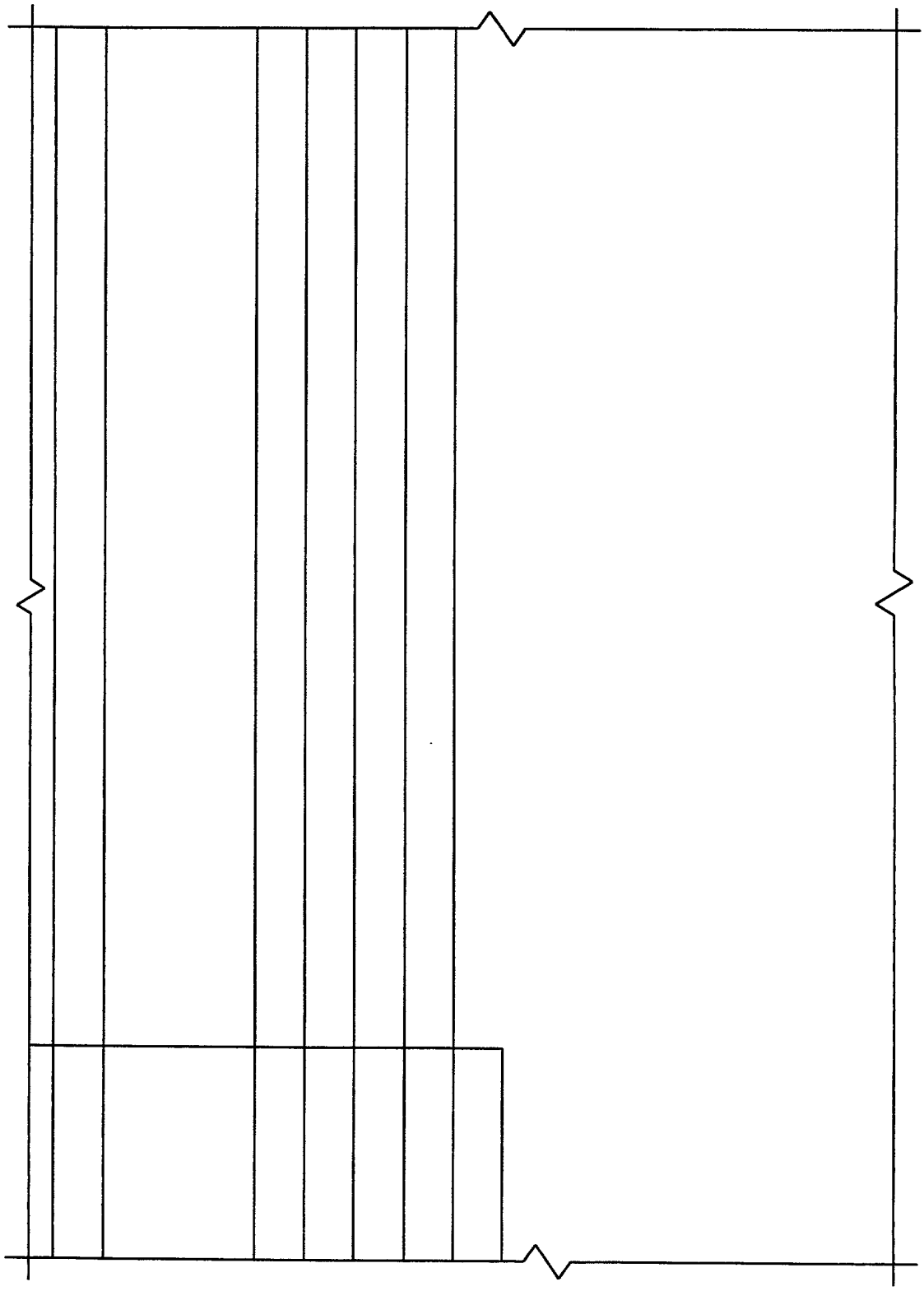
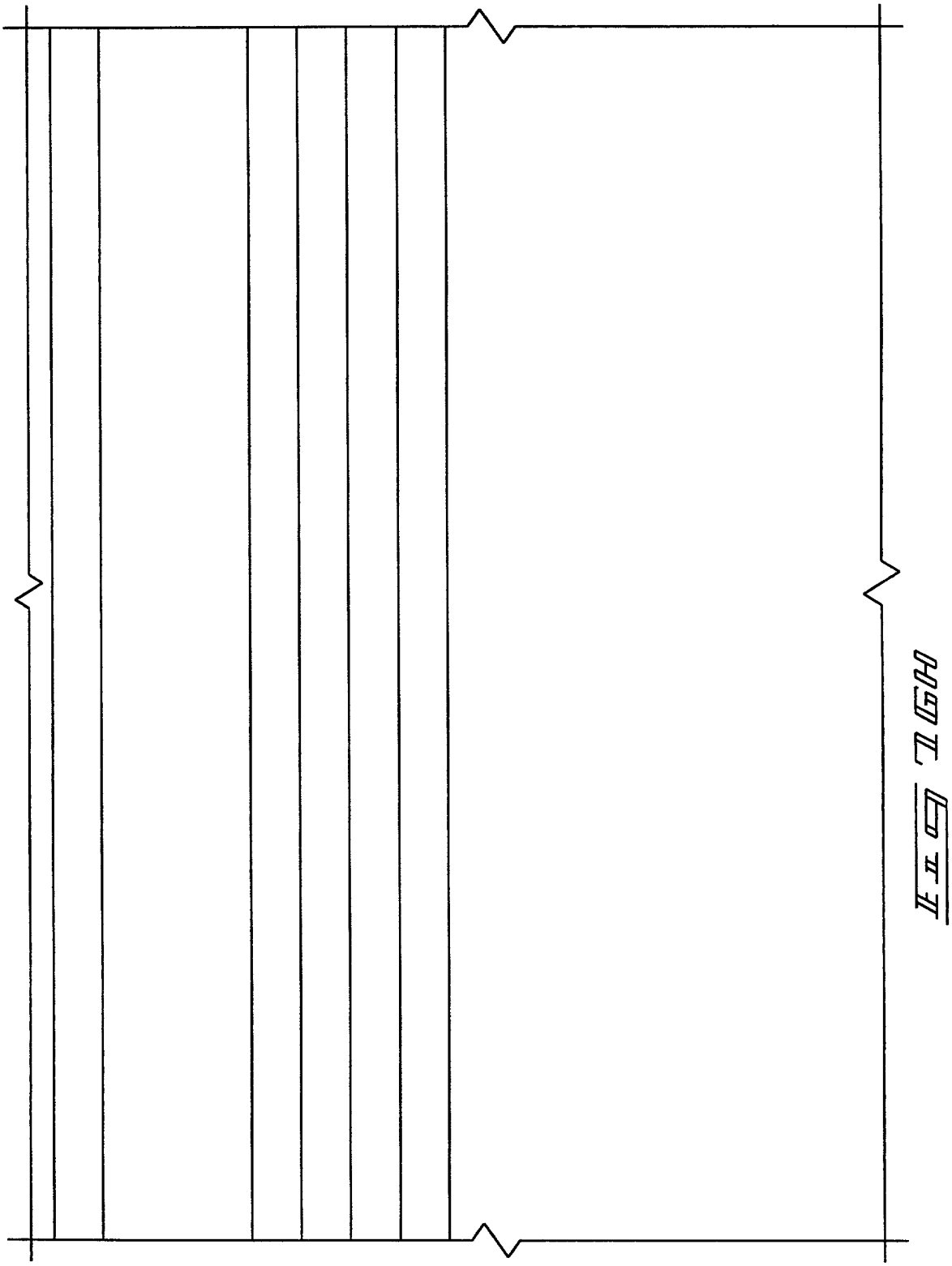
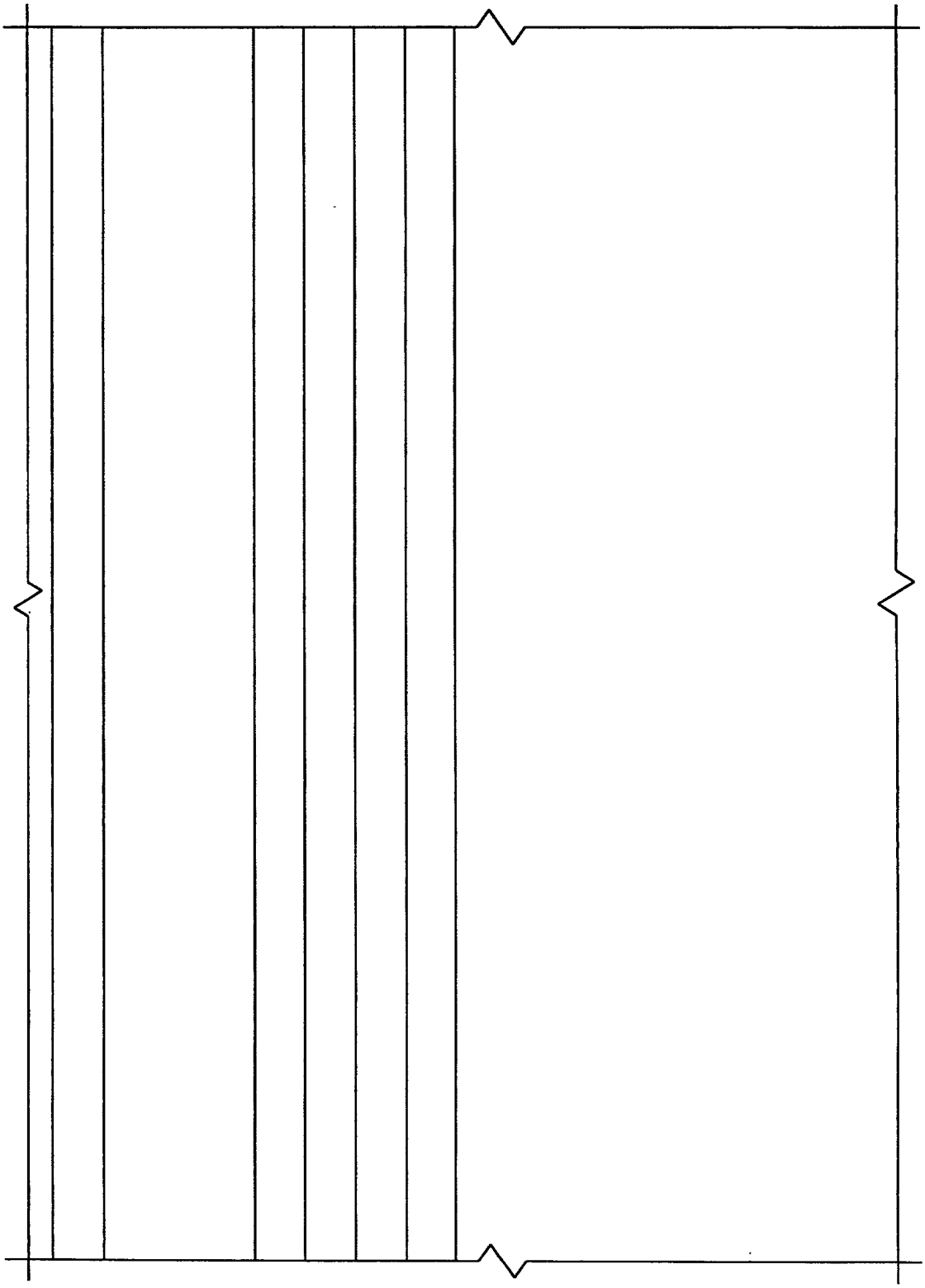


Fig 59

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ТОЧНЫЙ ПЕРЕВОД



ТУ 14-3-1959-2005

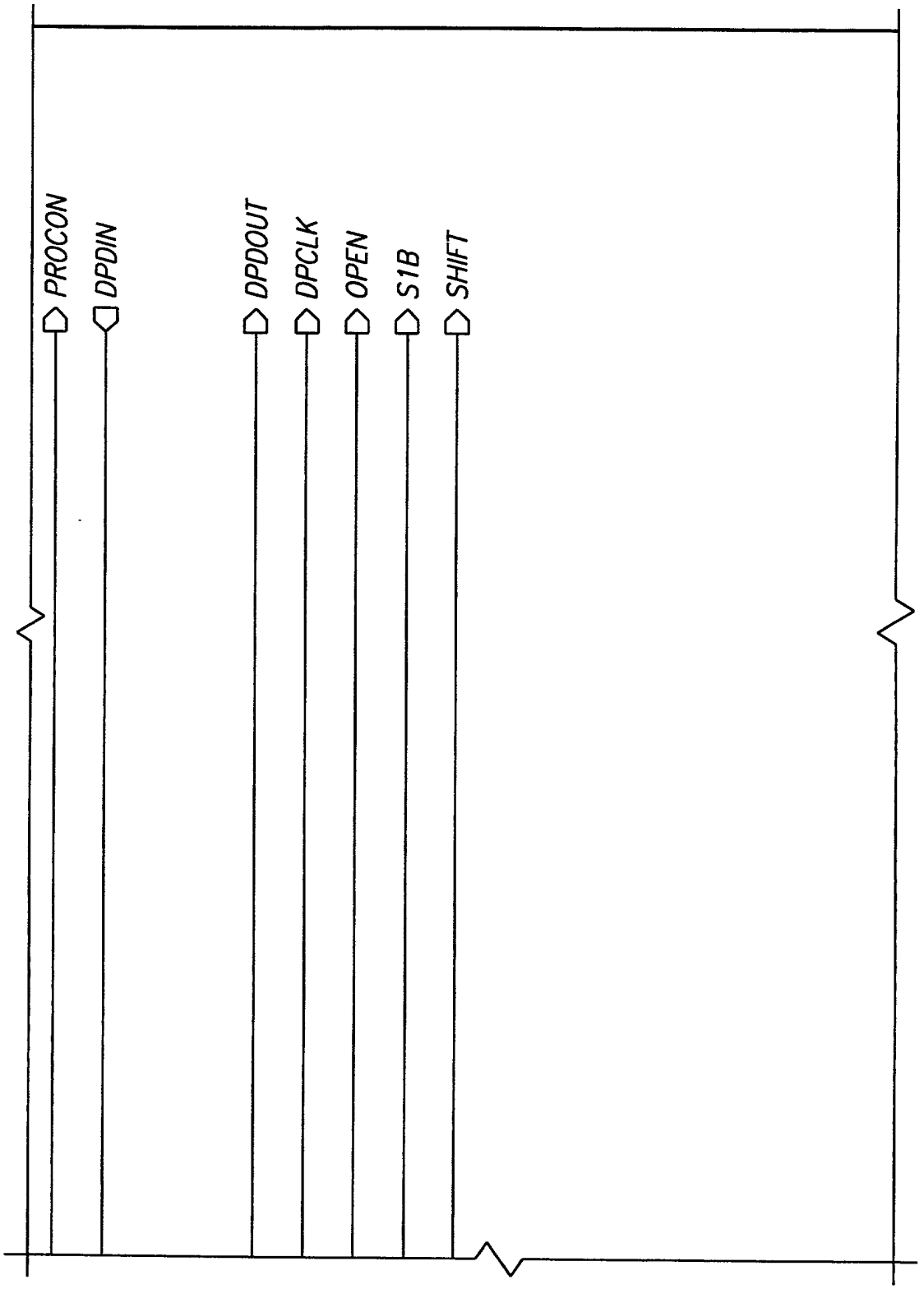
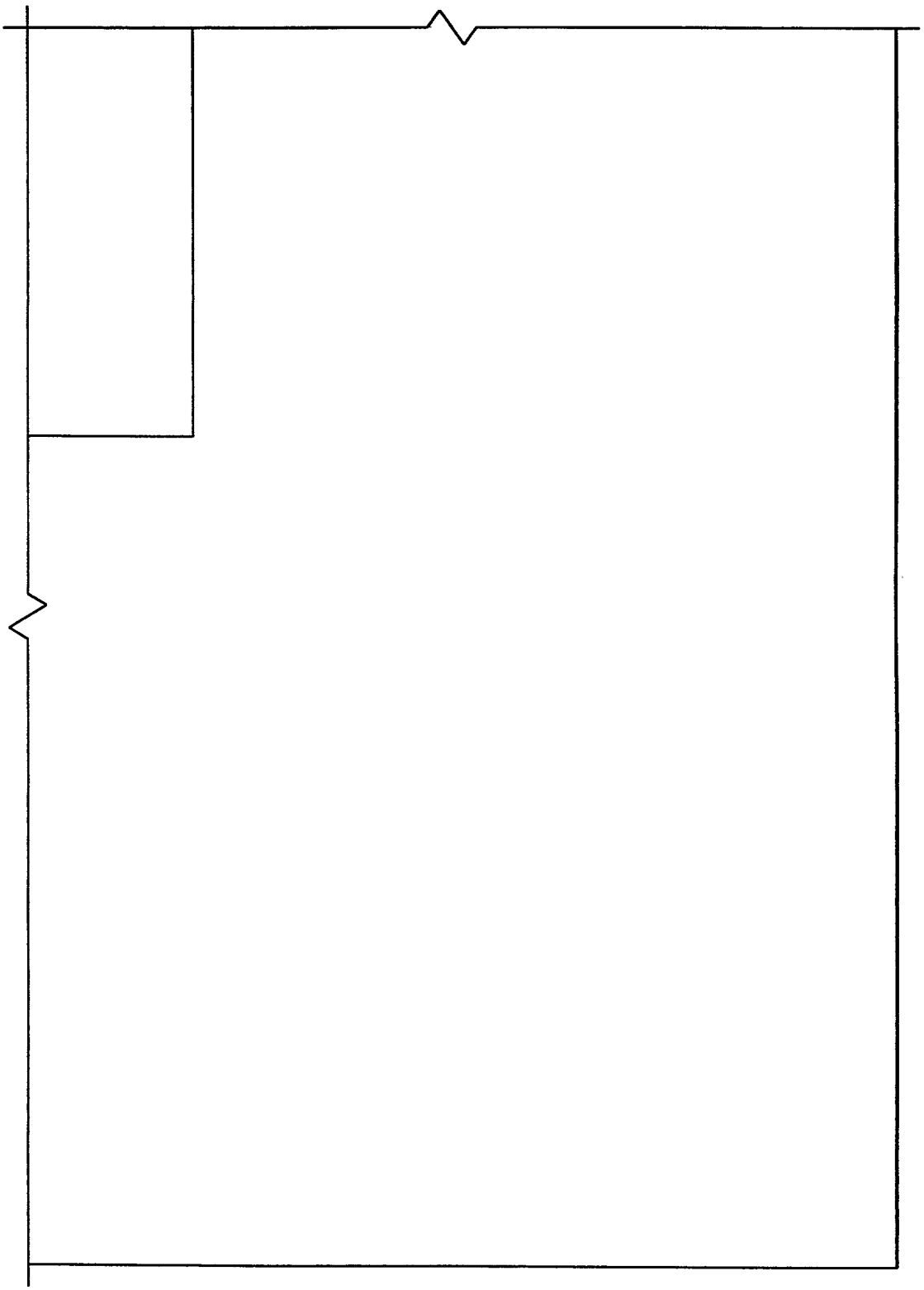


FIG 3

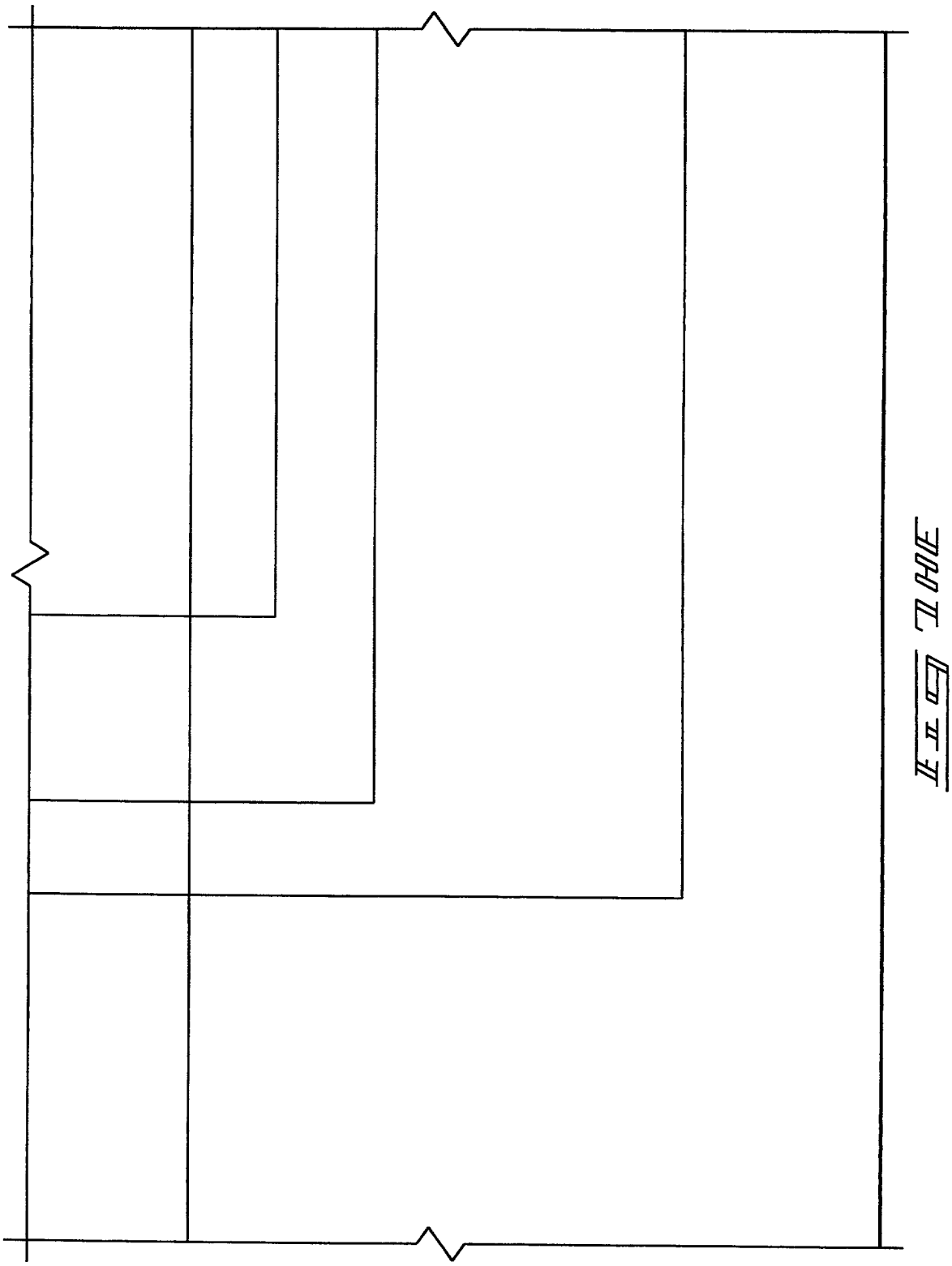
EP 1 524 650 A1 20050420

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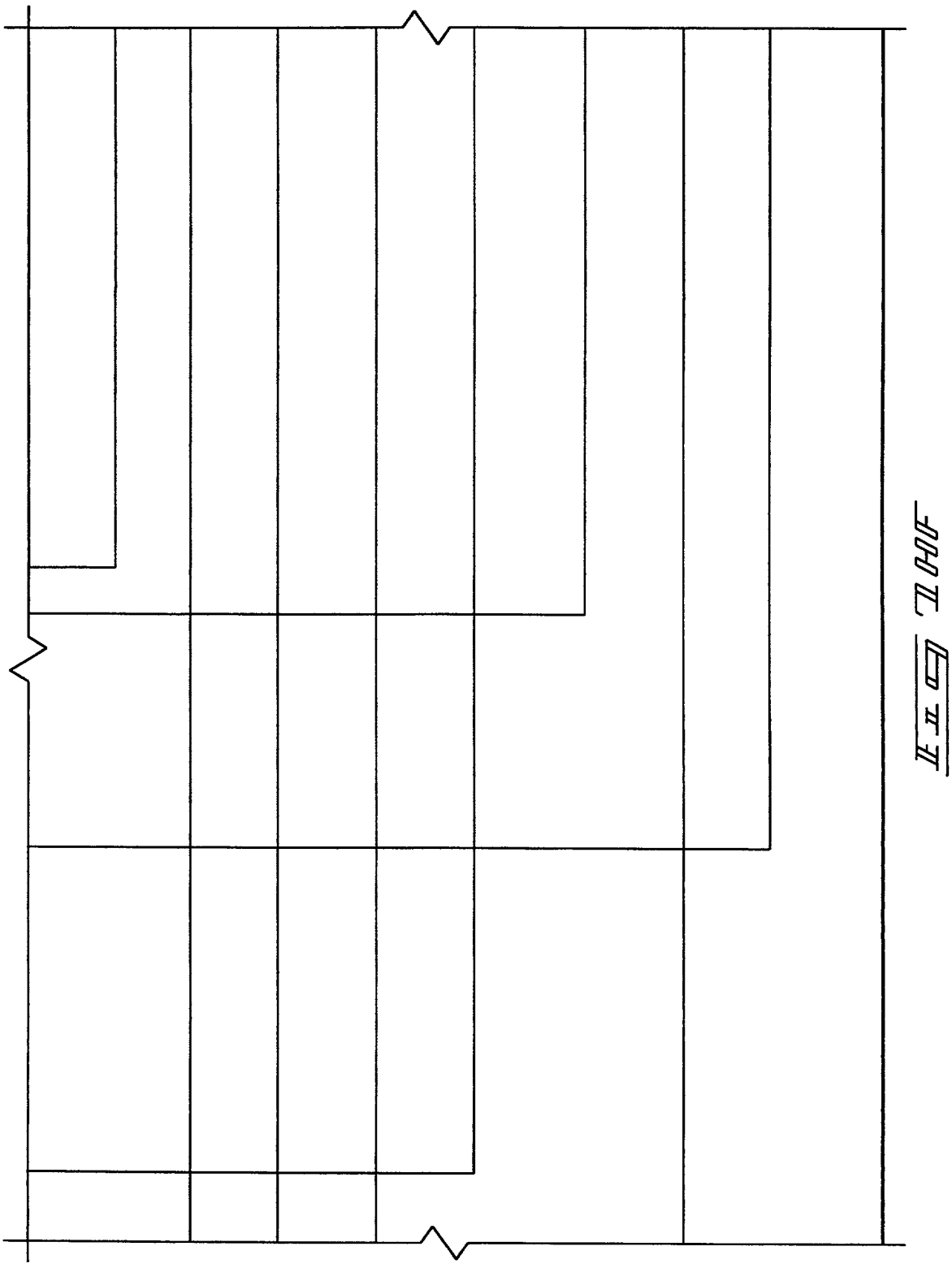
Copyright © 2005-2014

122/3273

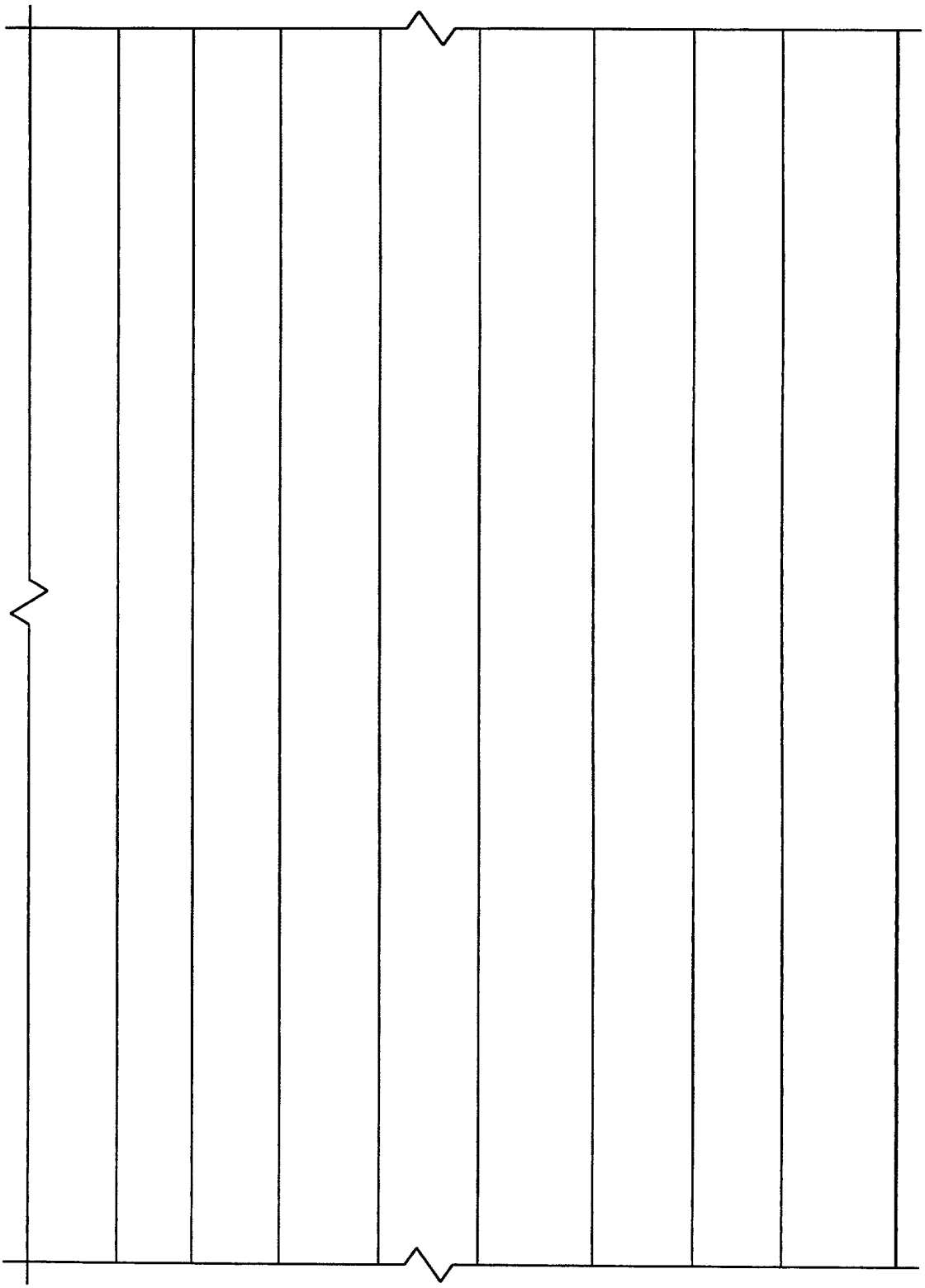


Plan 4950 - 1974

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5,562,656 - 15 - 5,554,168



SOUTH EAST

GB 2 095 259 B

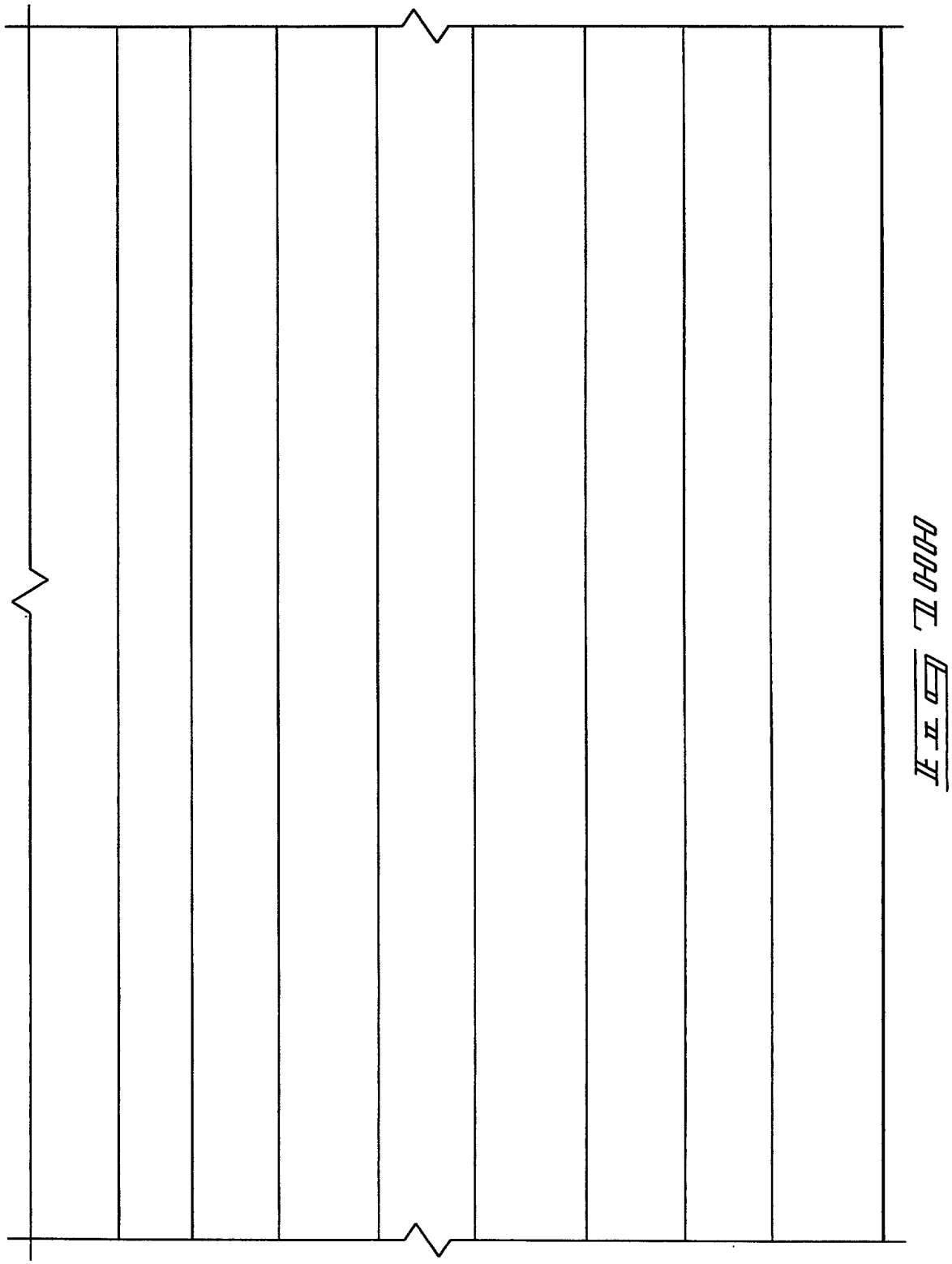


FIG 1

Copyright Patentscope

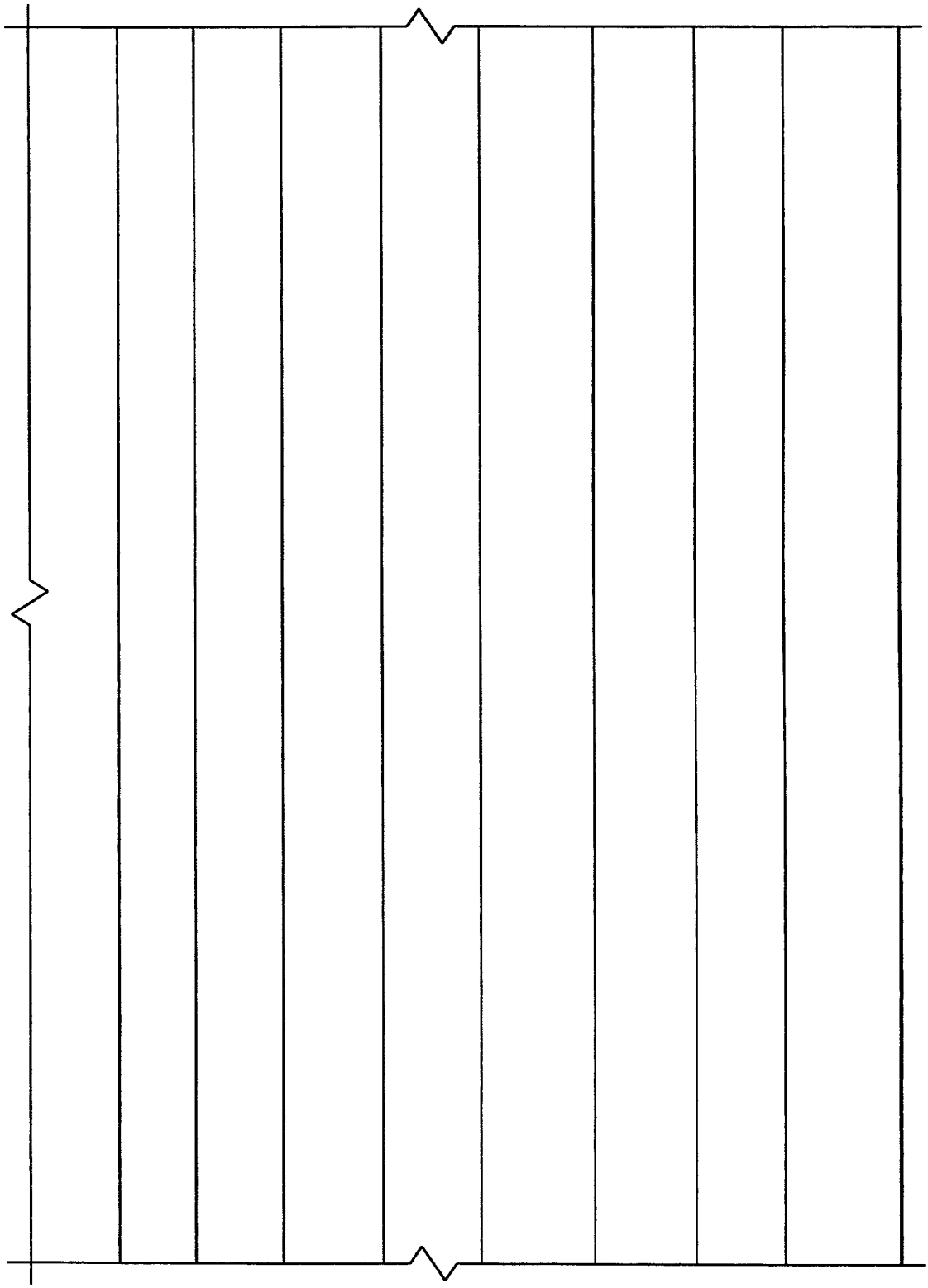


FIG 1

Printed: 05/12/2005

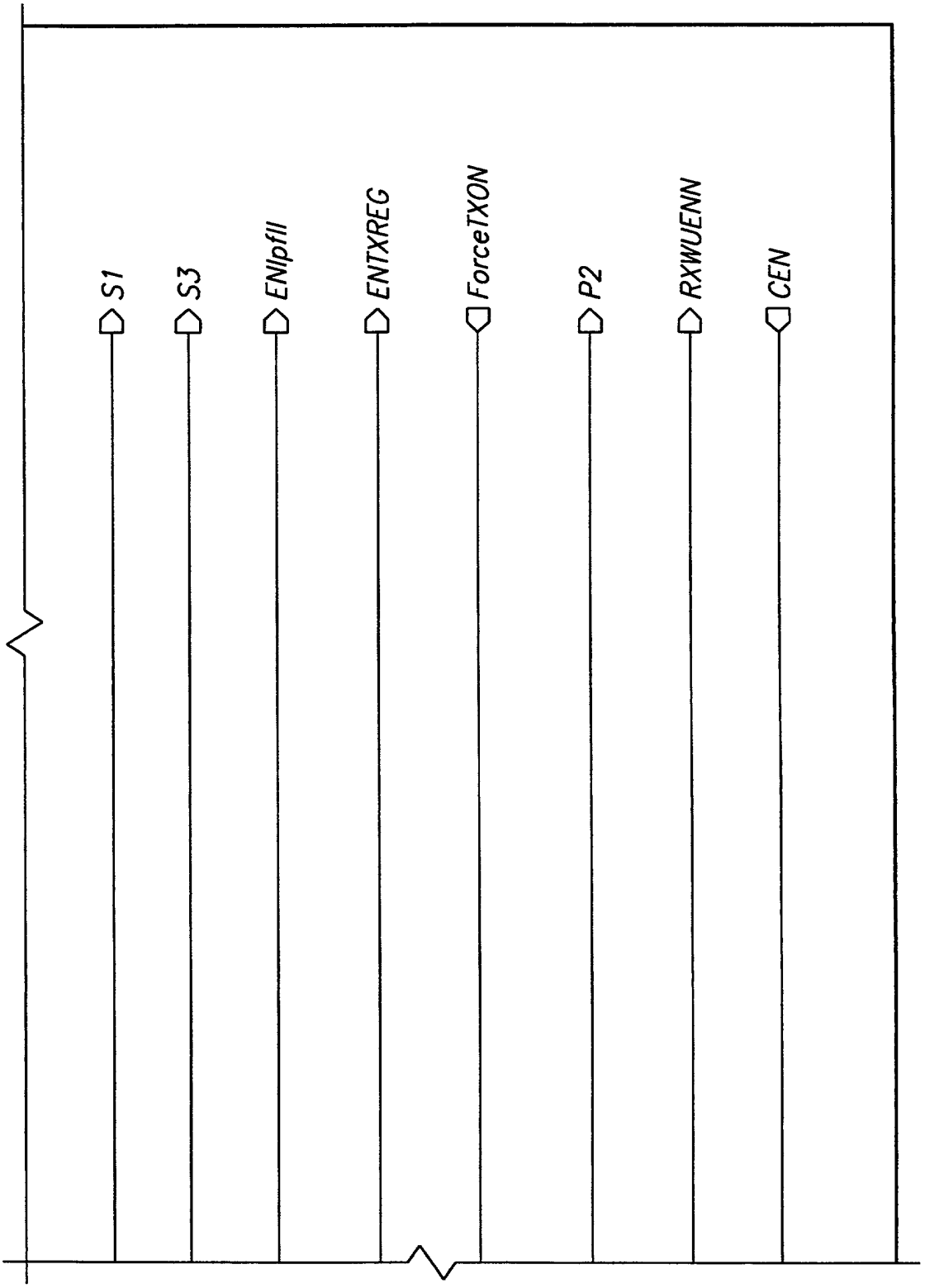


FIG 11

FOR PERSONAL USE ONLY

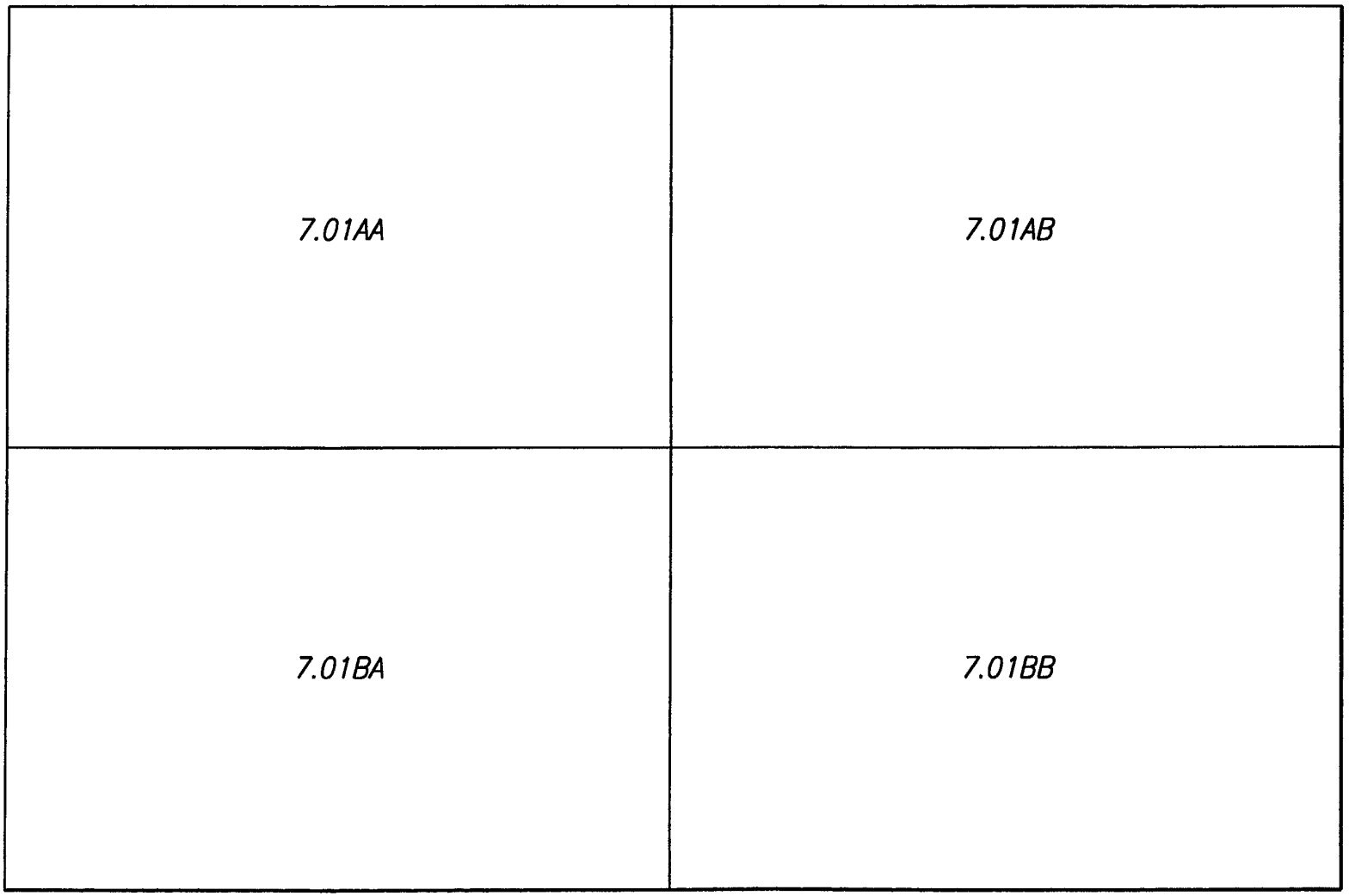


Fig 7.01

EP 1 791 290 A2

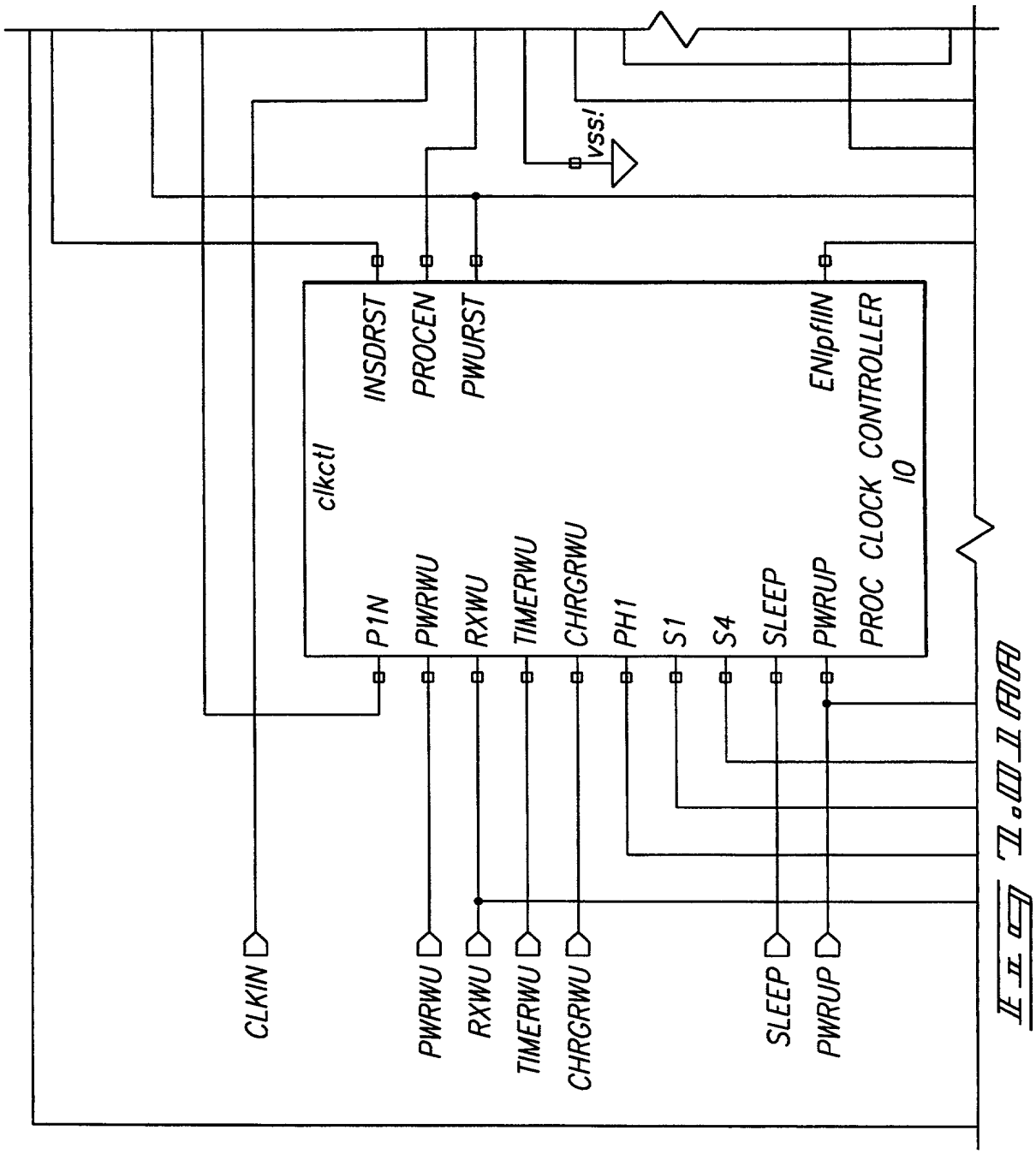
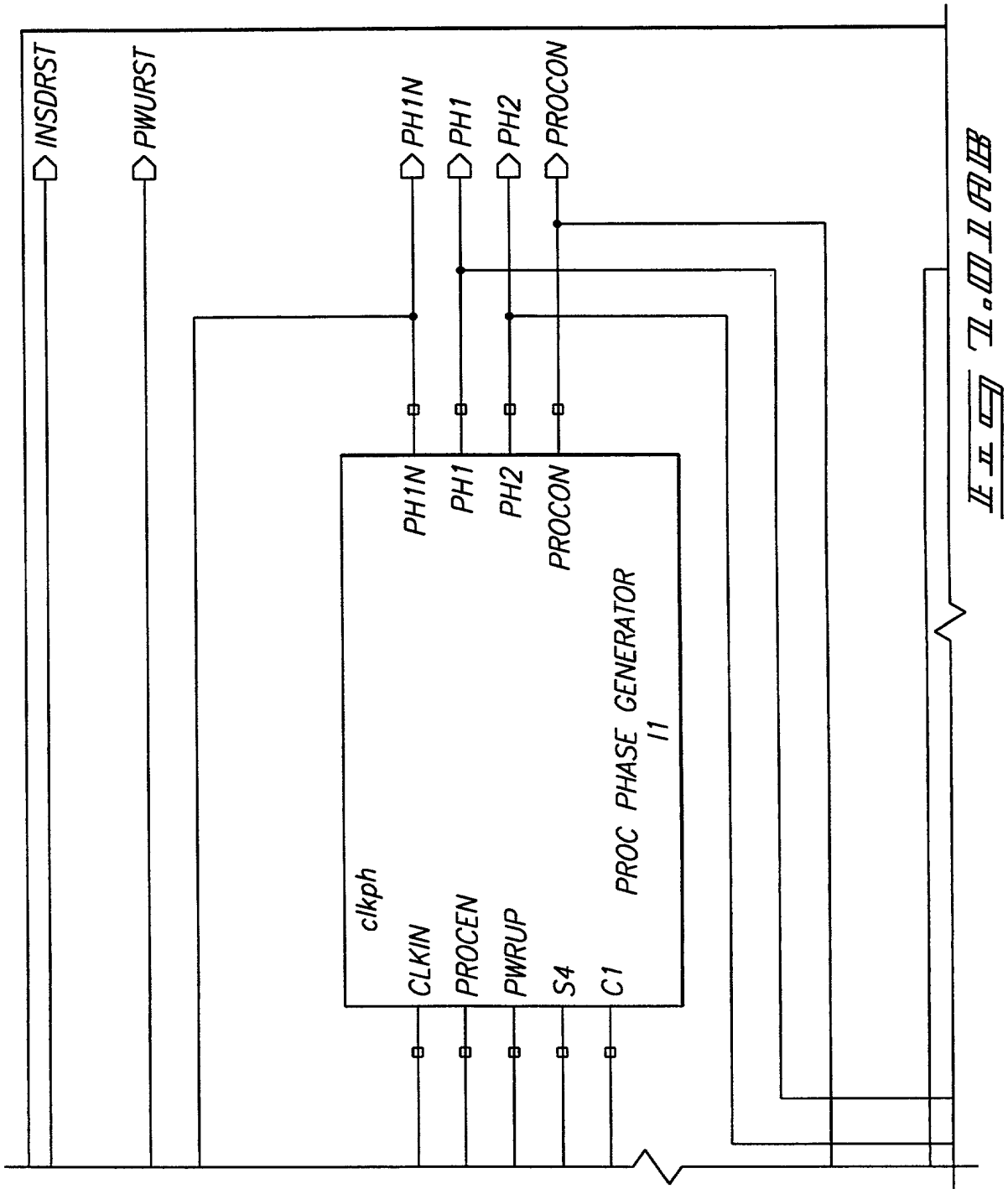


FIG 1


INSDRST
PWURST
PH1N
PH1
PH2
PROCON
clkph
CLKIN
PROCEN
PWRUP
S4
C1
PROC PHASE GENERATOR
I1

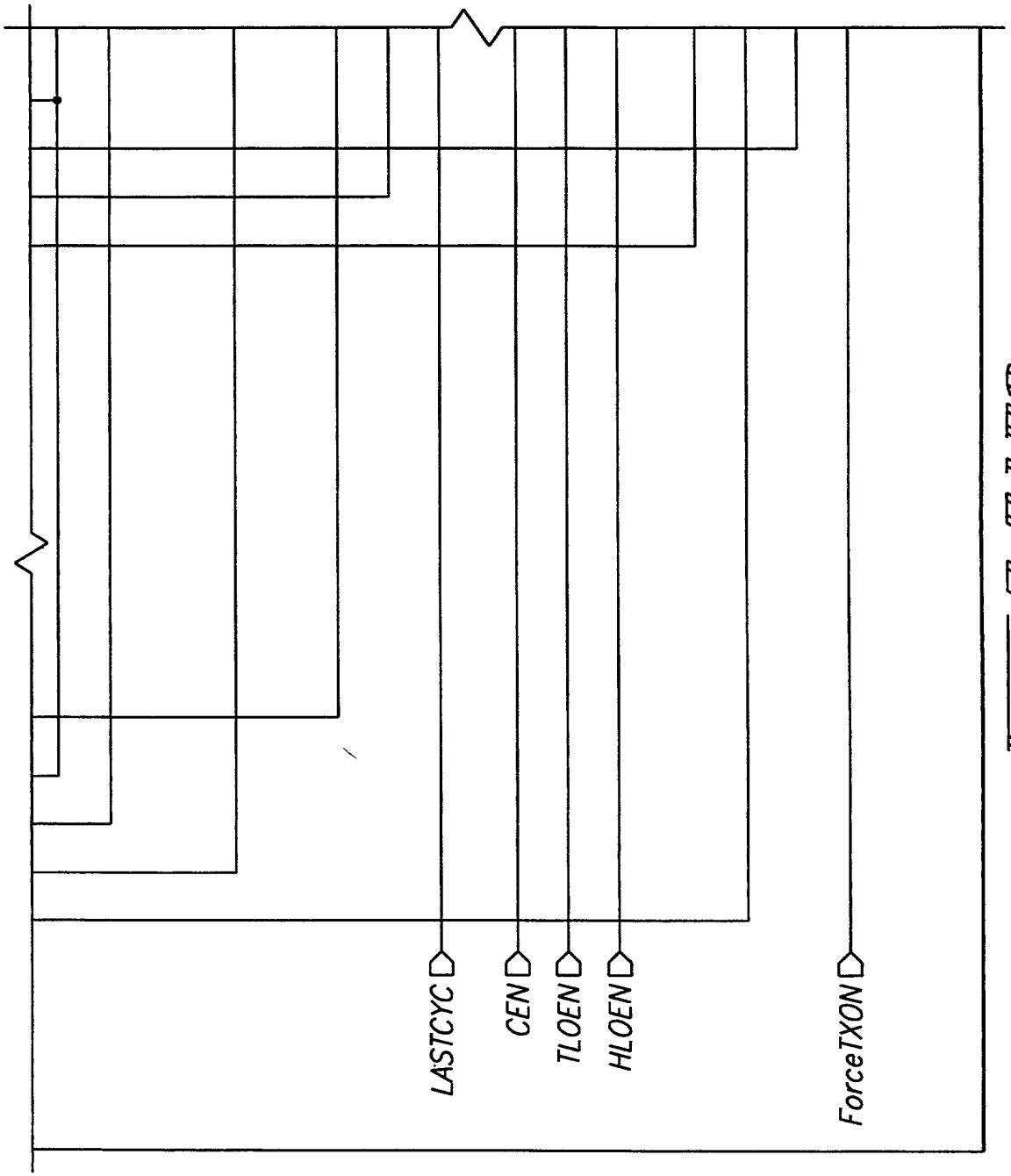


Fig 1.0 IBA

Patent application 95142056.4

FOTESO-2002640

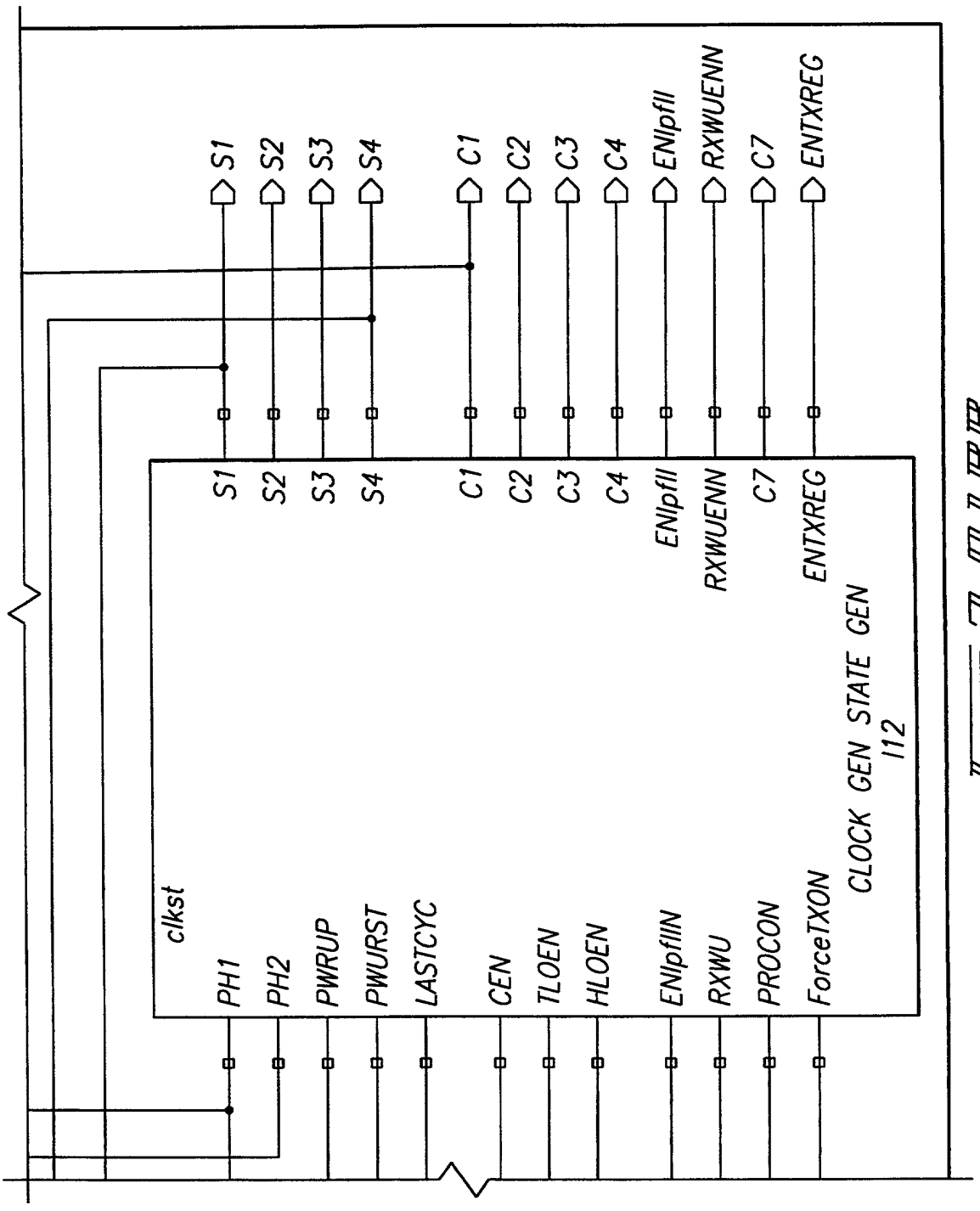


Fig. 11

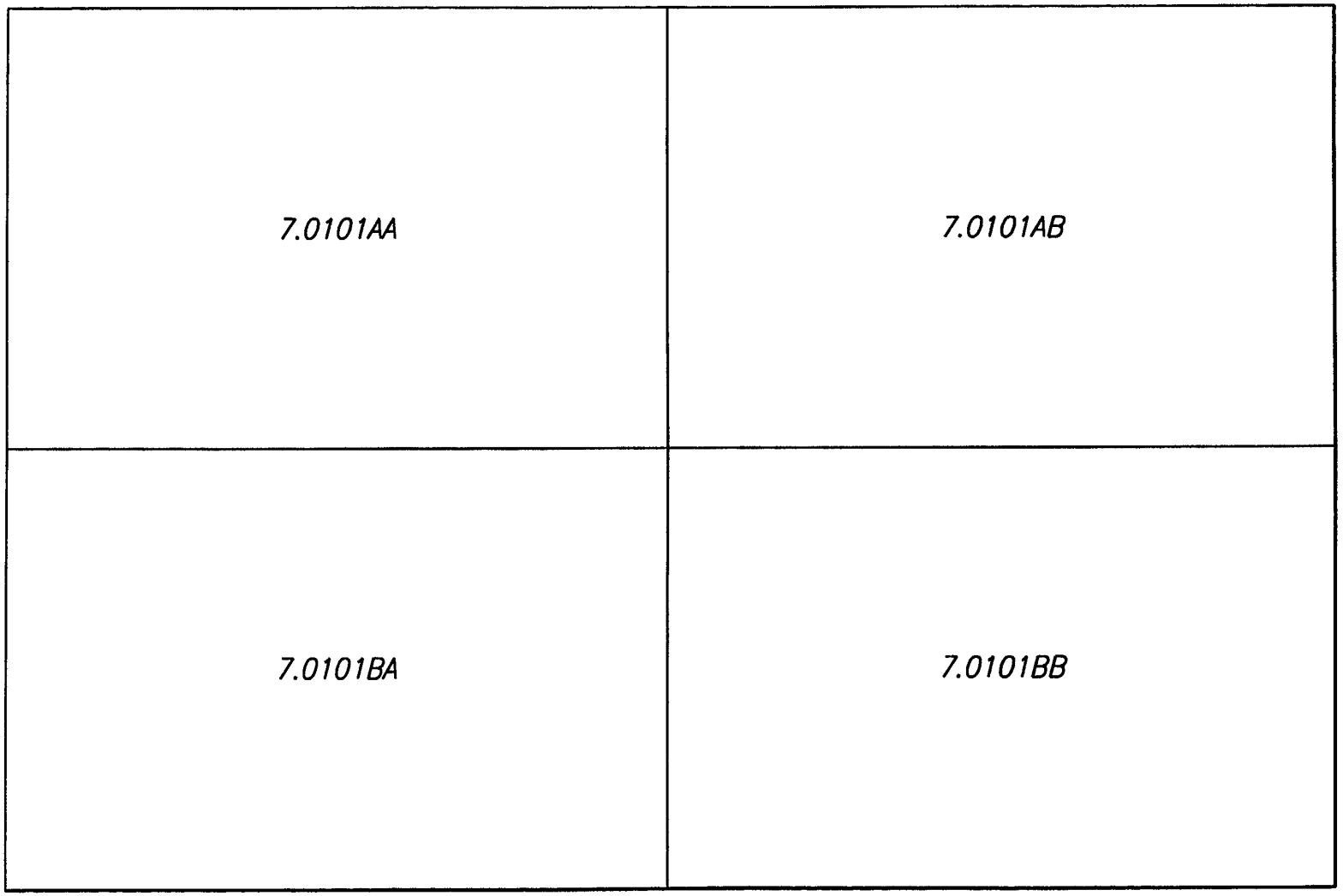


Fig 7.0101

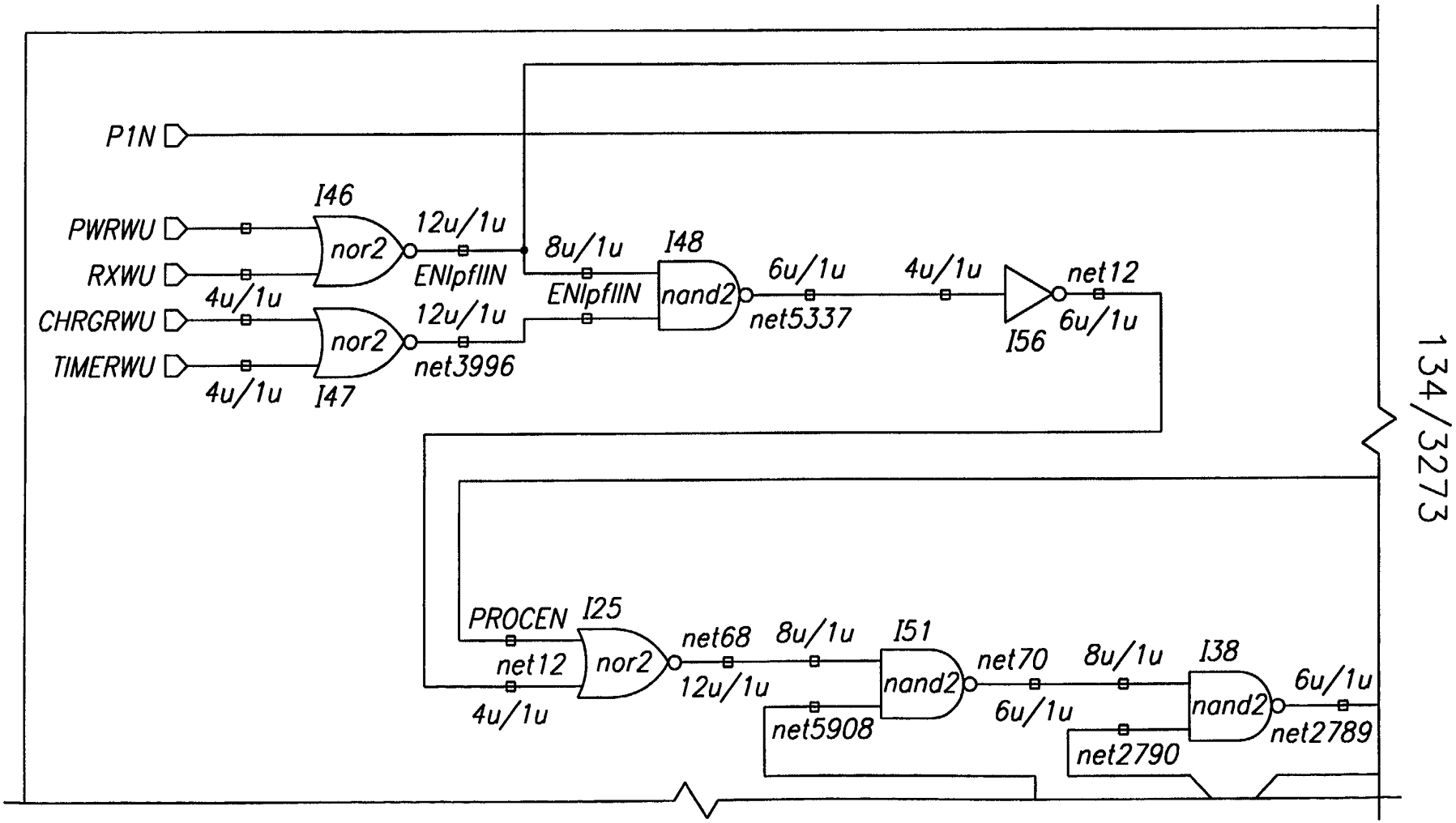


Fig 1.0I0I0AA

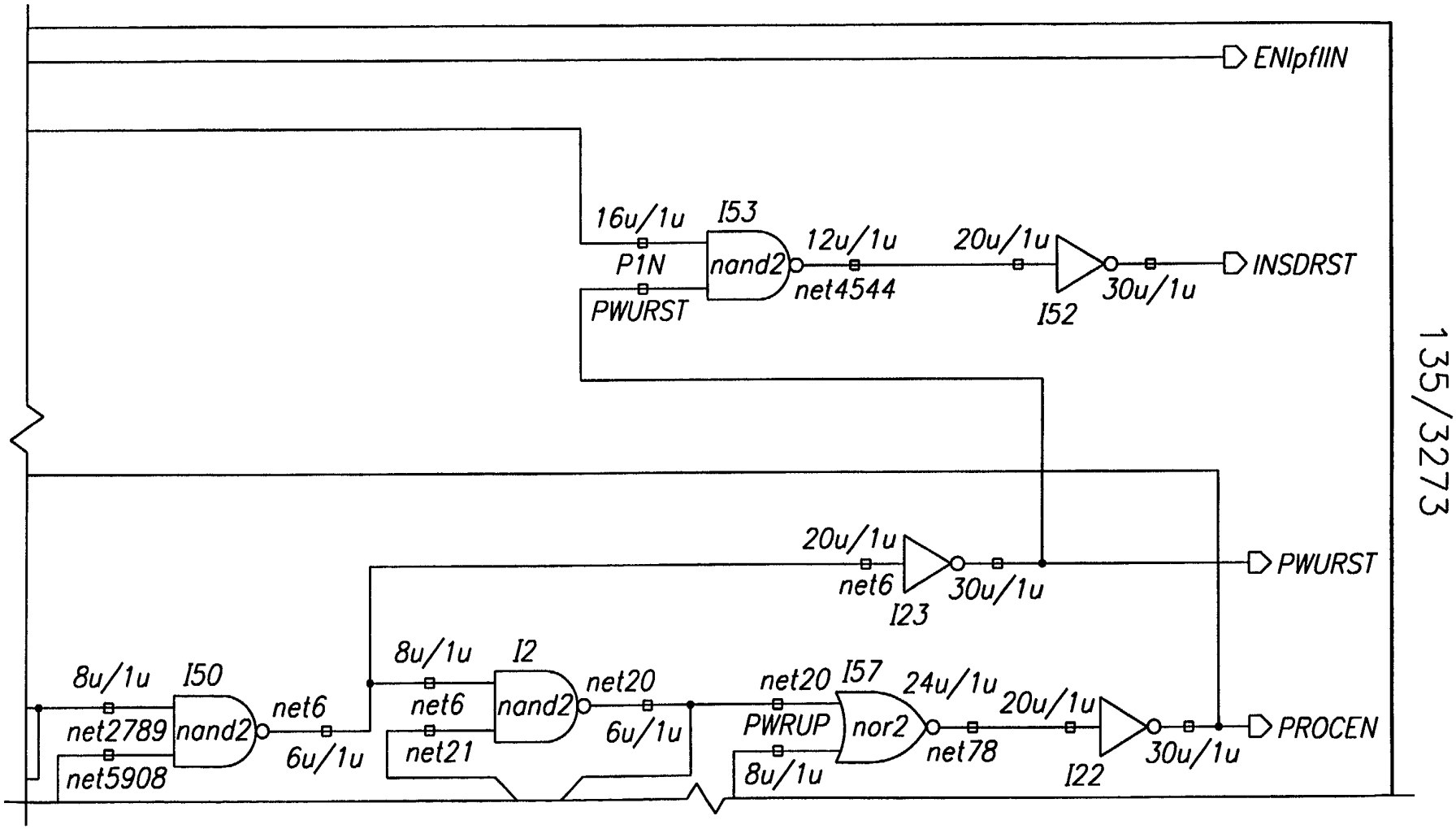


Fig 1.0I0I0IAB

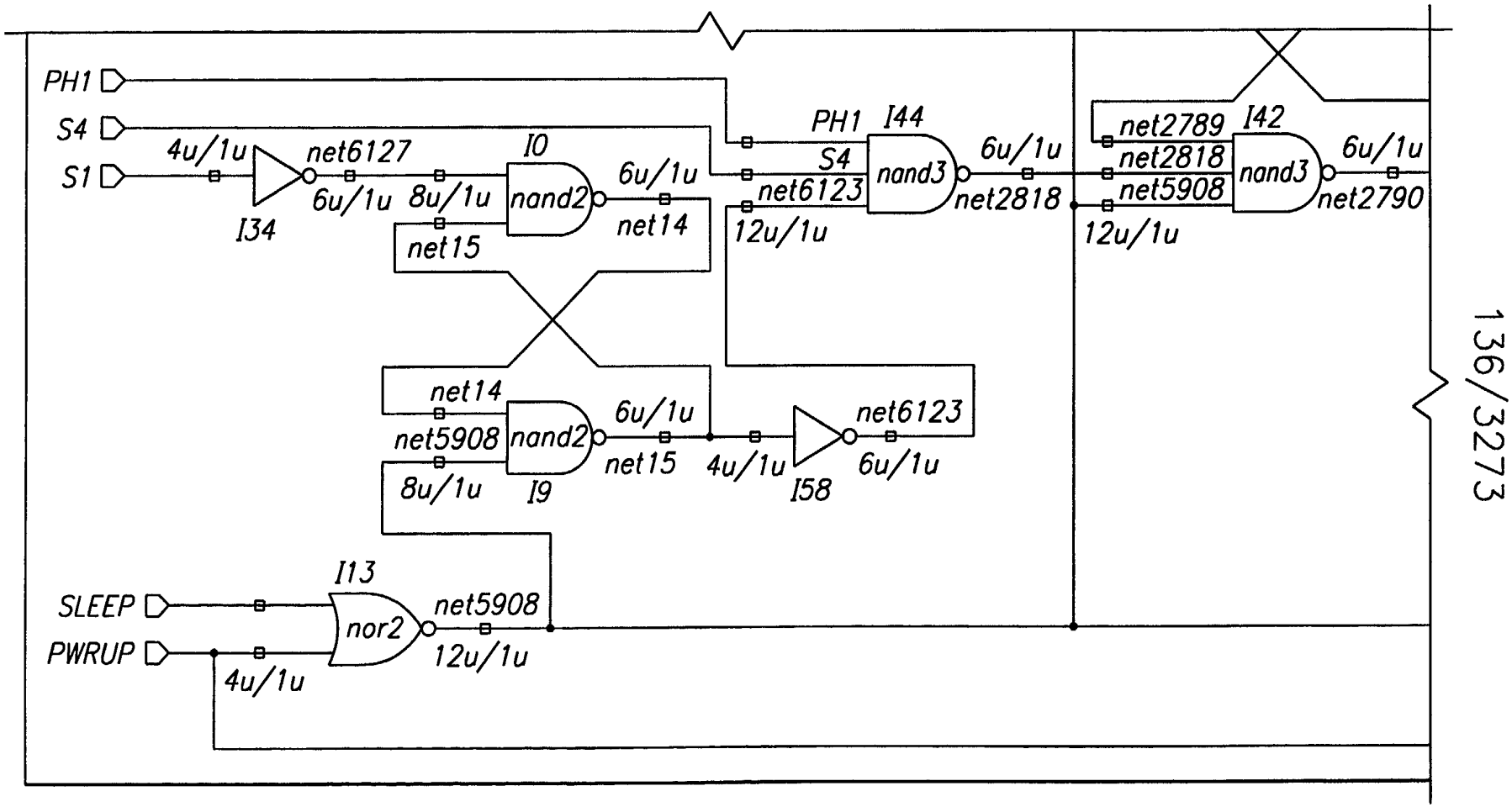

PH1
S4
S1
4u/1u
I34
net6127
6u/1u
I0
8u/1u
nand2
net15
6u/1u
net14
PH1
I44
S4
net6123
nand3
12u/1u
6u/1u
net2818
net2789
I42
net2818
net5908
nand3
12u/1u
6u/1u
net2790
net14
net5908
nand2
8u/1u
I9
6u/1u
net15
4u/1u
I58
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136/3273

Fig 1.0100

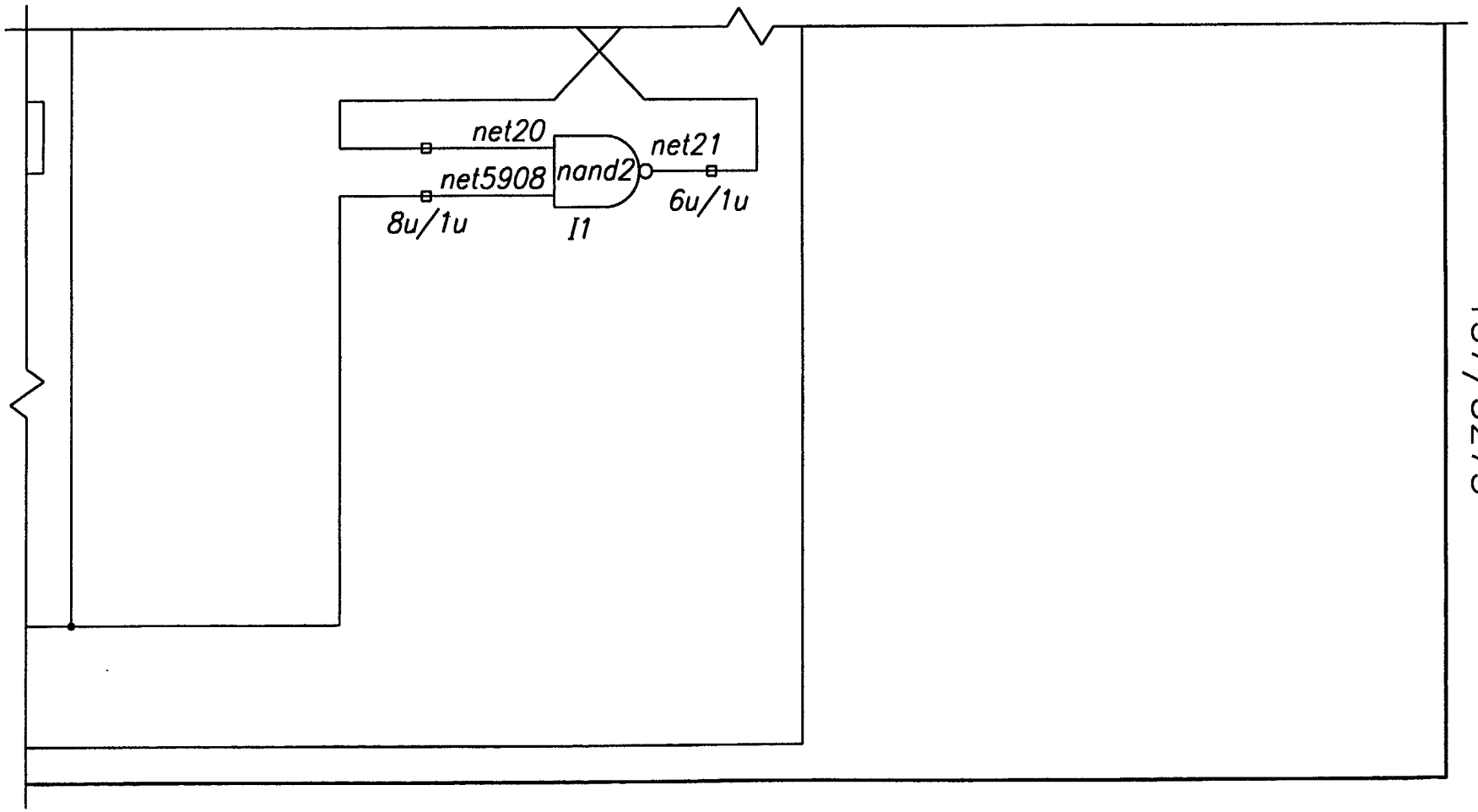


Fig 3.0101BB

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7.0102CA	7.0102CB	7.0102CC	7.0102CD	7.0102CE	7.0102CF	7.0102CG	7.0102CH	7.0102CI	7.0102CJ
7.0102DA	7.0102DB	7.0102DC	7.0102DD	7.0102DE	7.0102DF	7.0102DG	7.0102DH	7.0102DI	7.0102DJ

Fig 7.0102

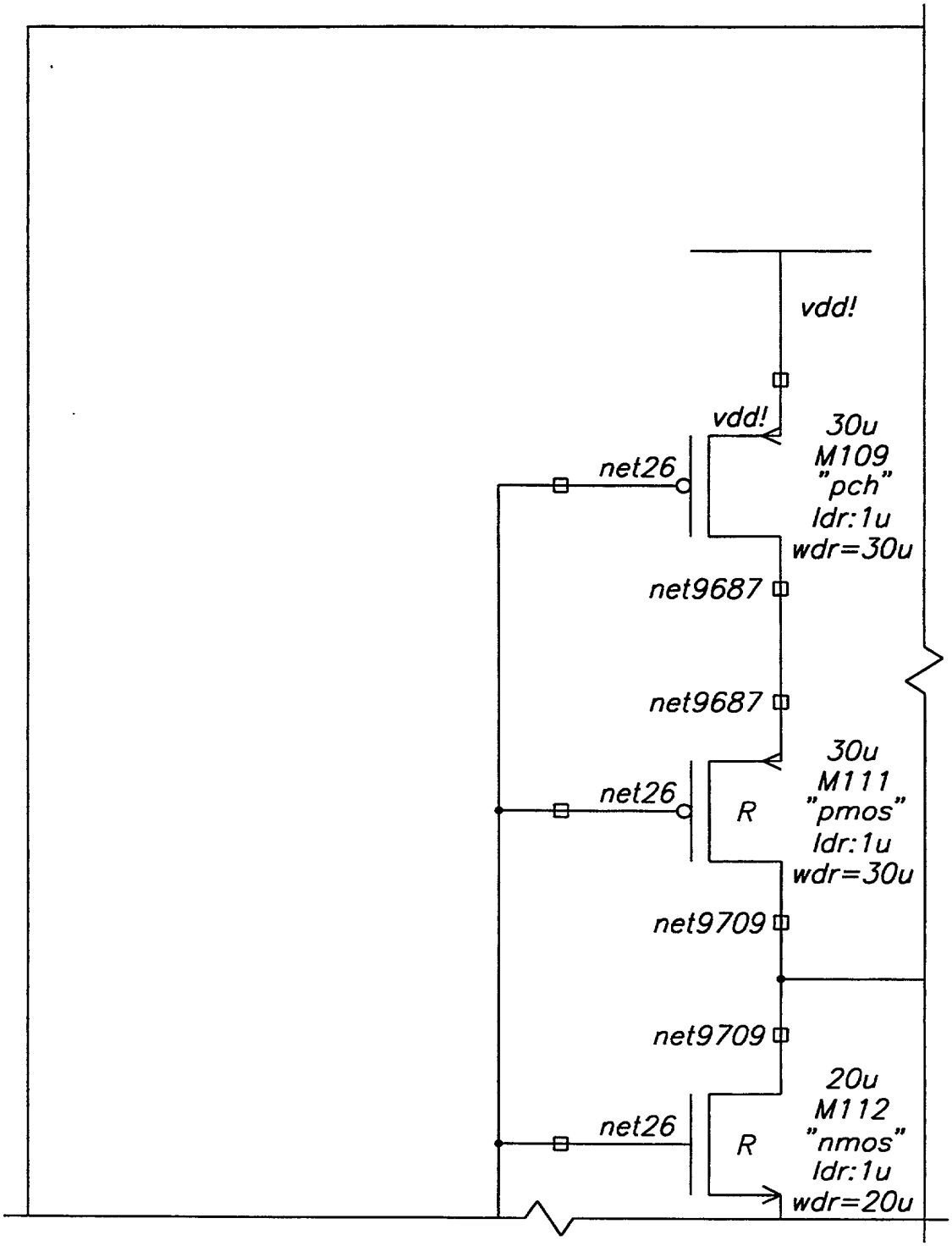

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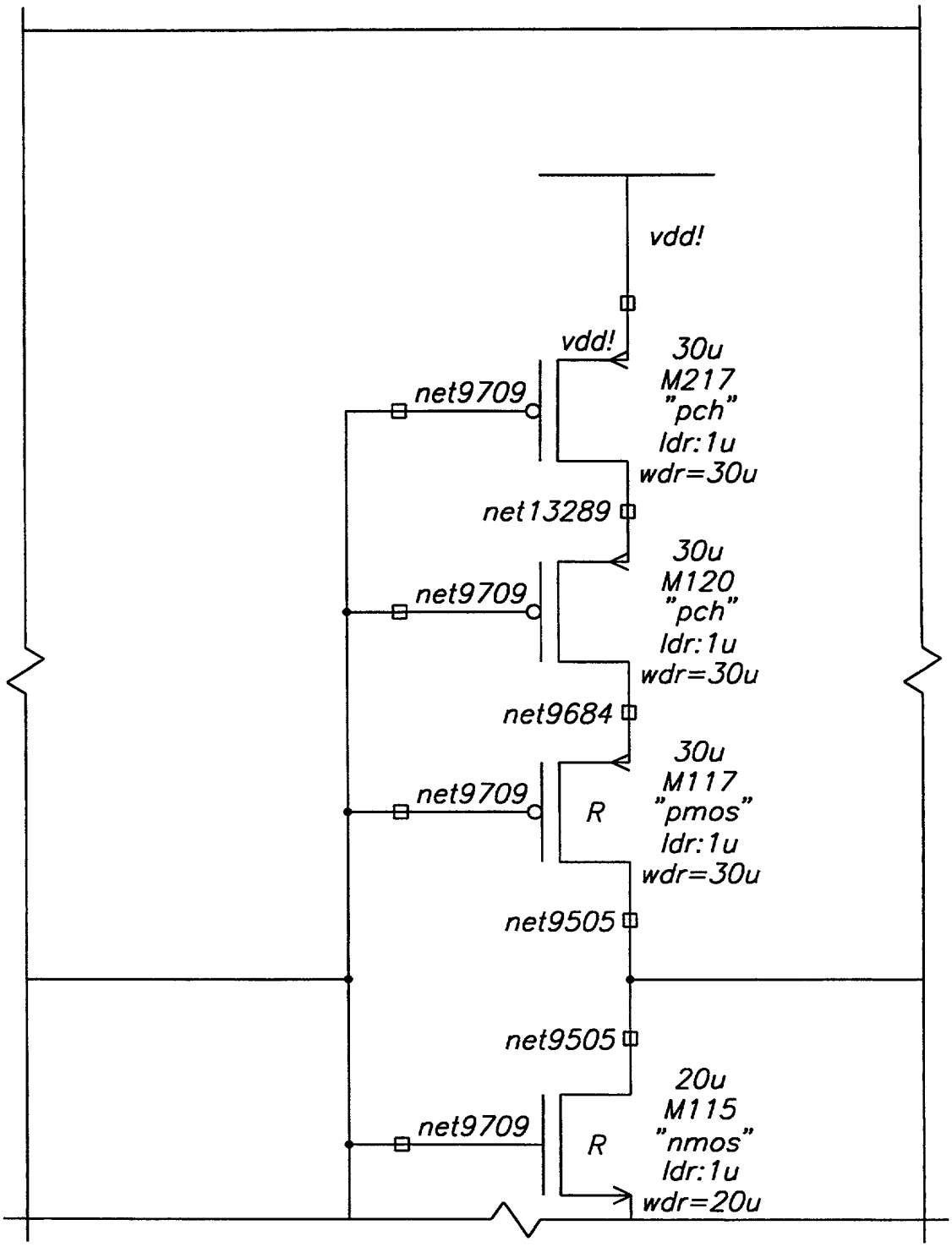

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Fig 1.0110AF

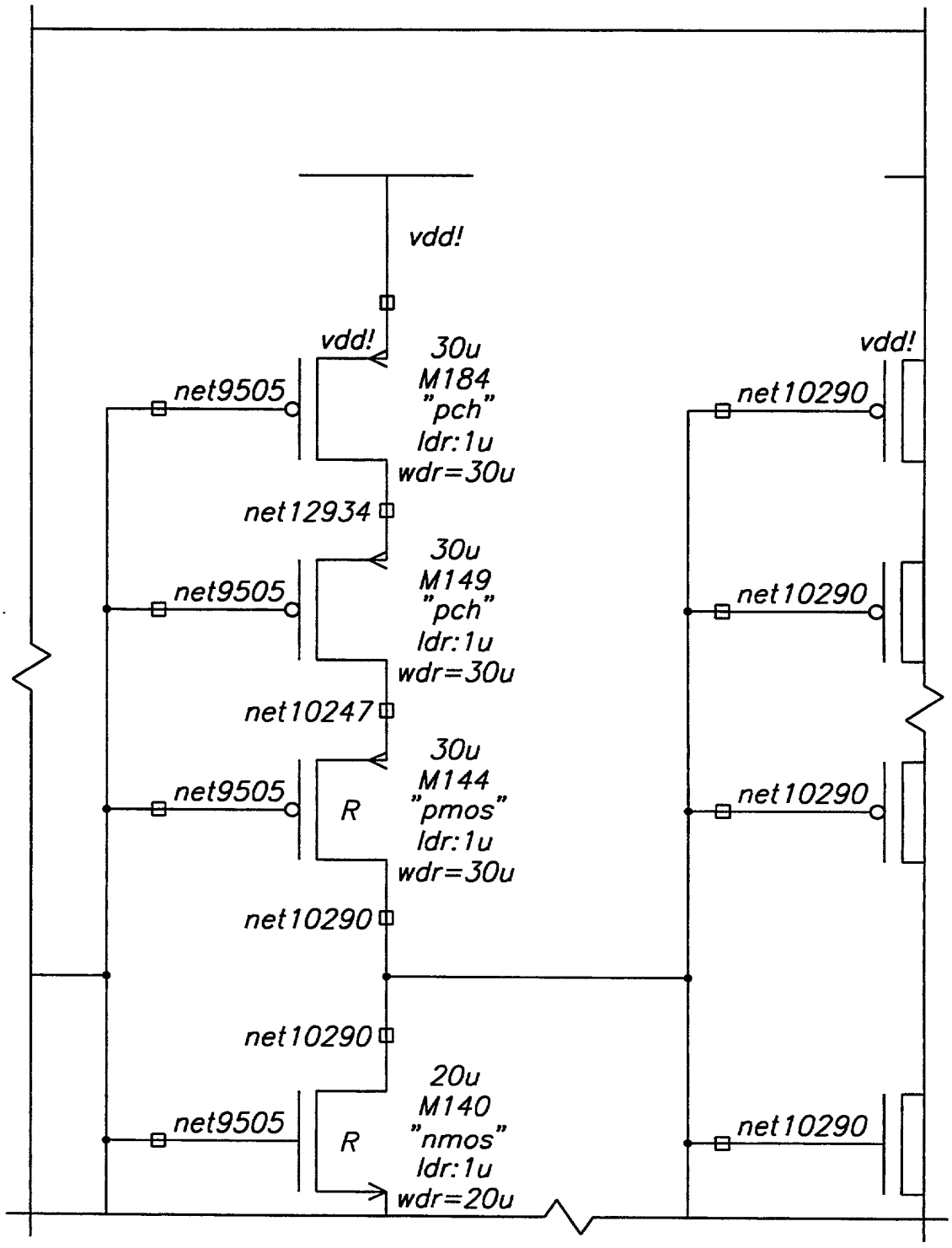
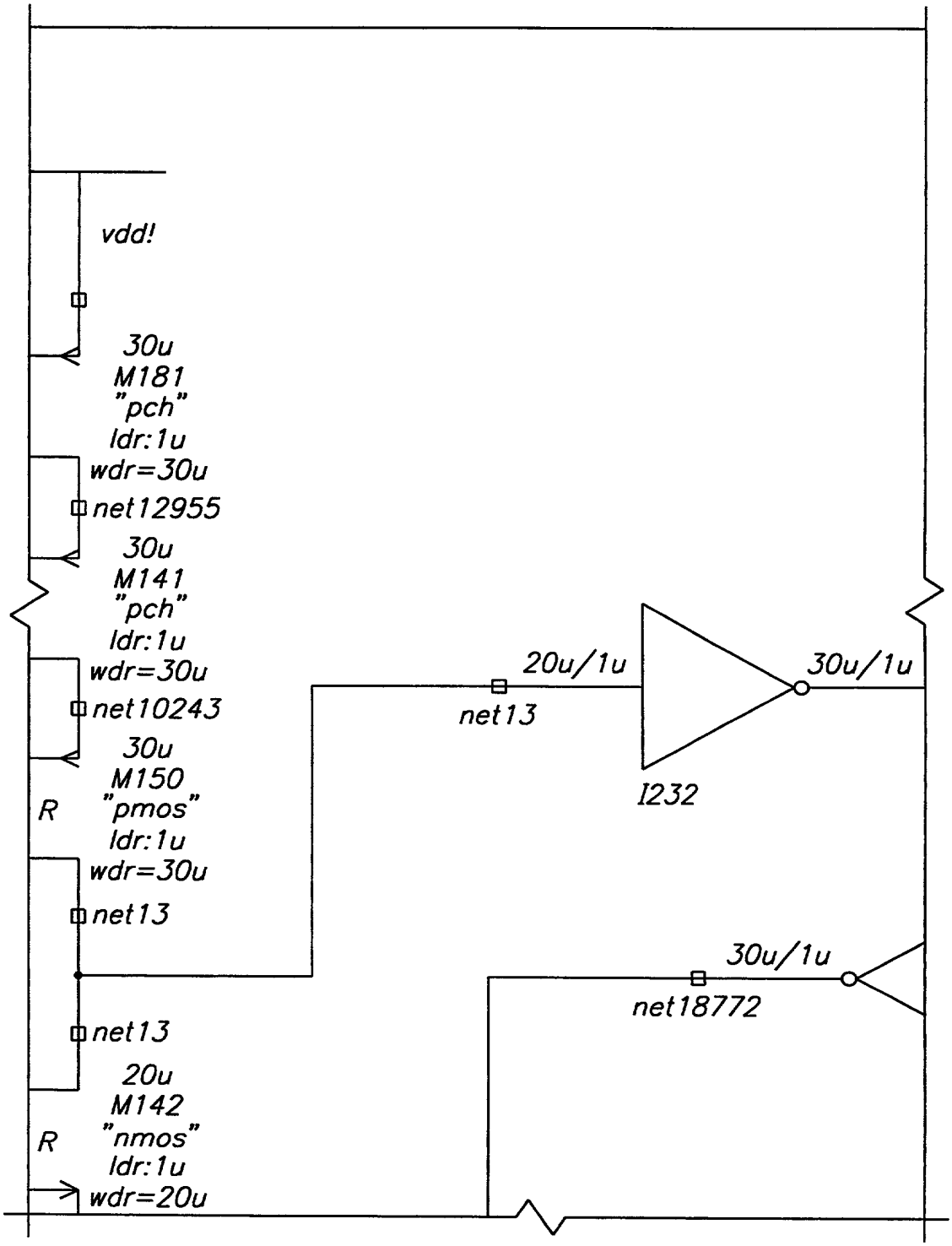

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Fig 1.0102AG



Фиг 1.0102АН

ПРОЕКТ - 05.12.95

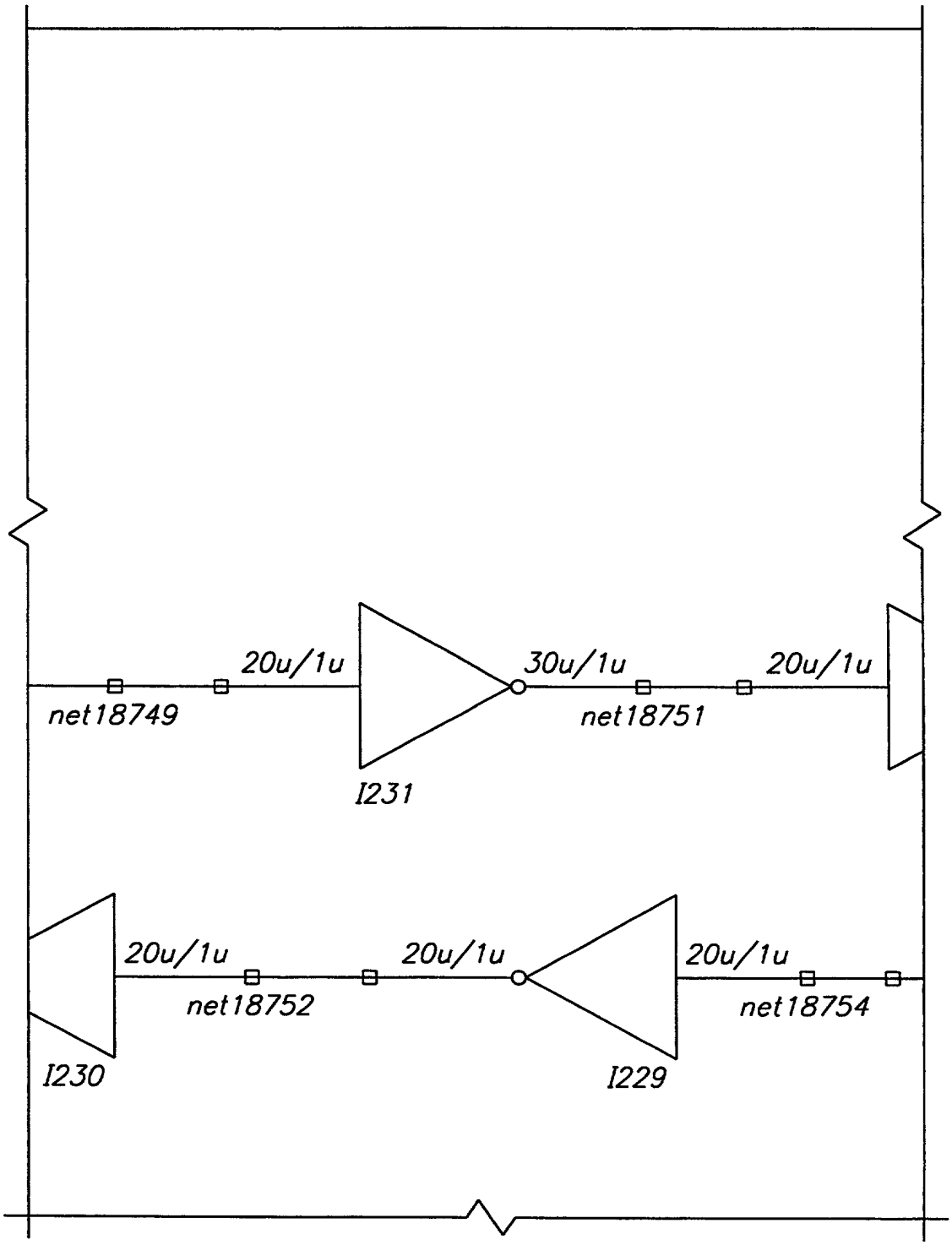


Fig 1.0102AI

US6243854 - 05-12-2001

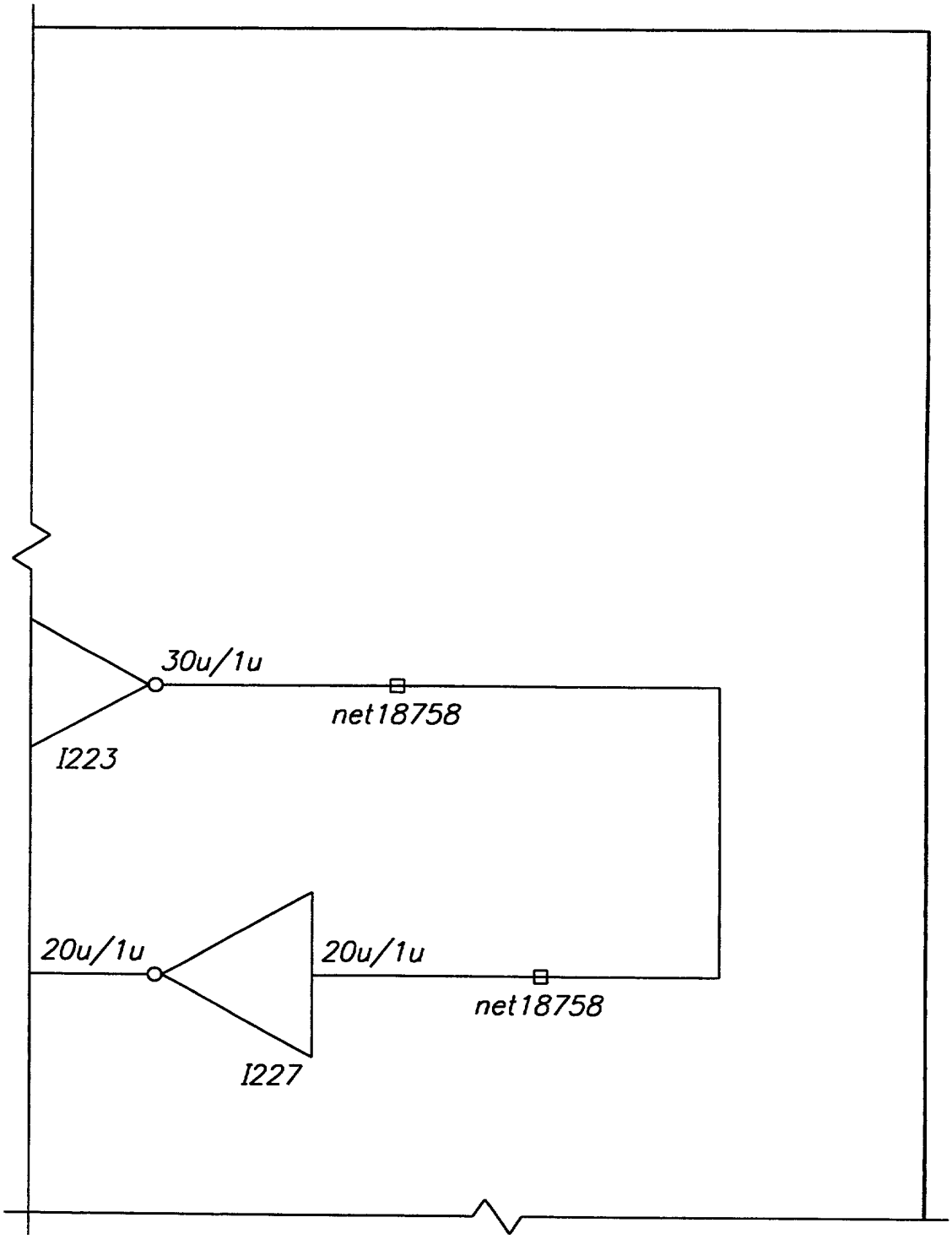


Fig 7.0102Aa

Patent Application Publication

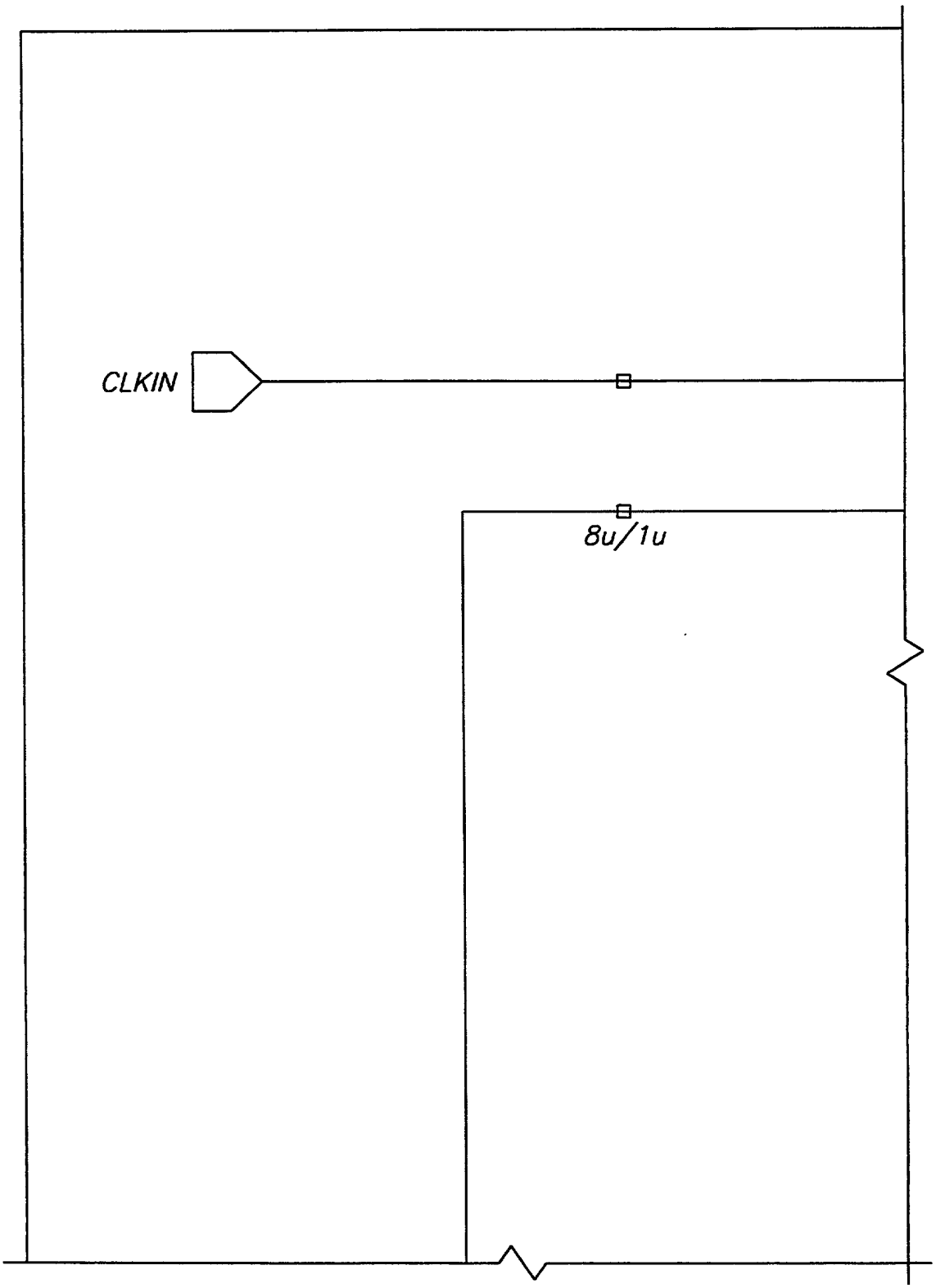


Fig 7.0102BA

Samsung Exhibit 1014

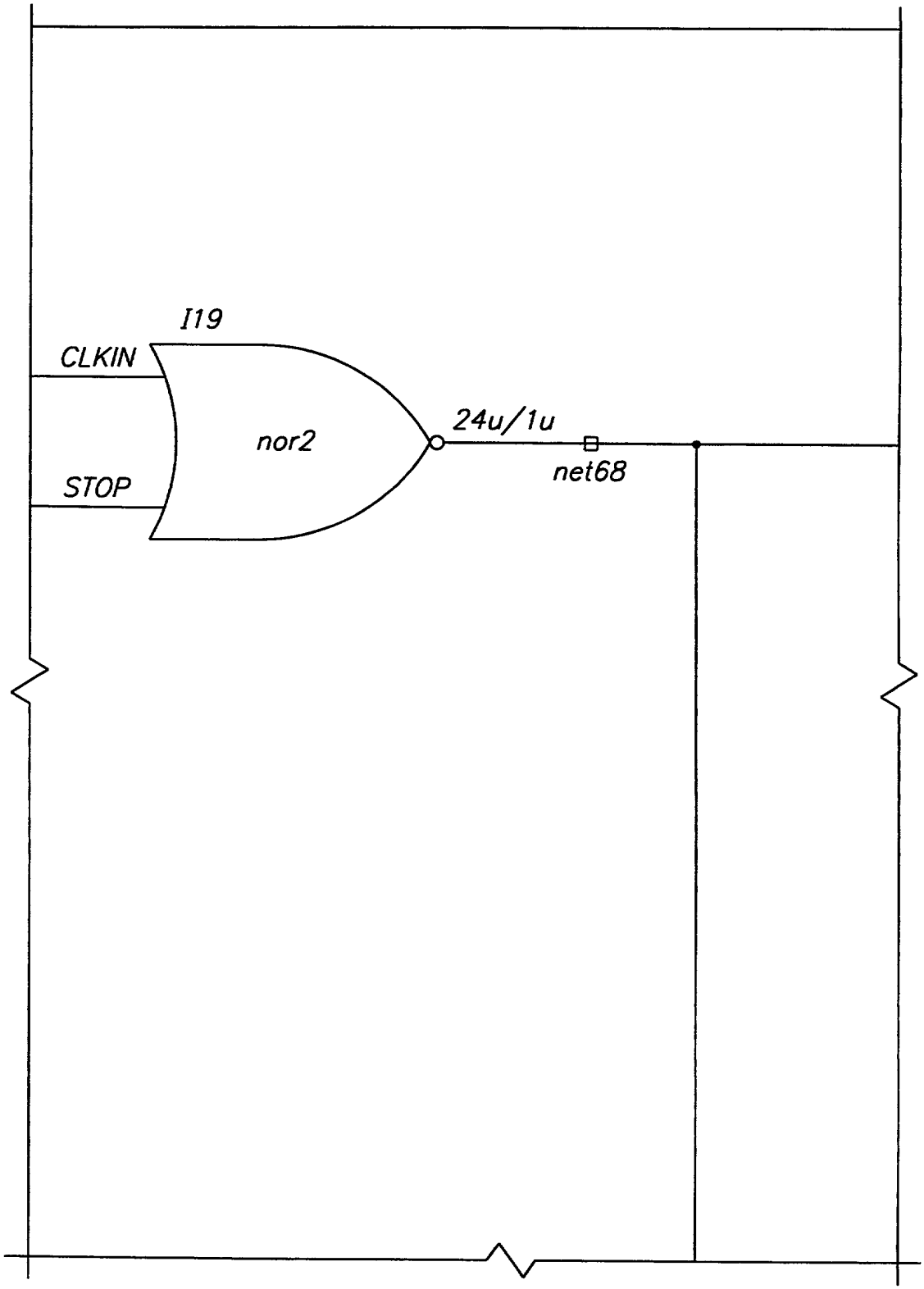


Fig 1.0102BB

US6252459B1

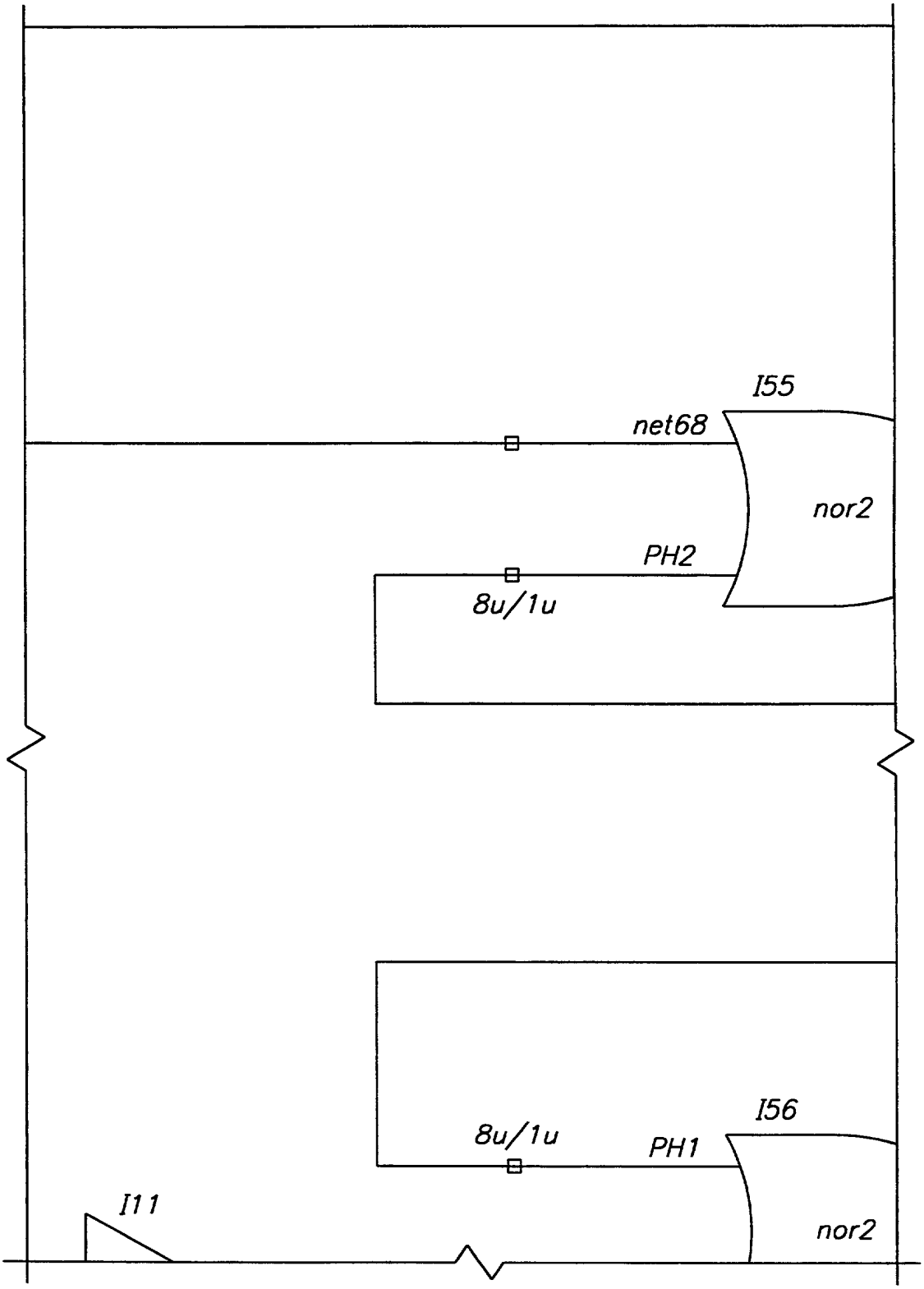


Fig 3.0102BC

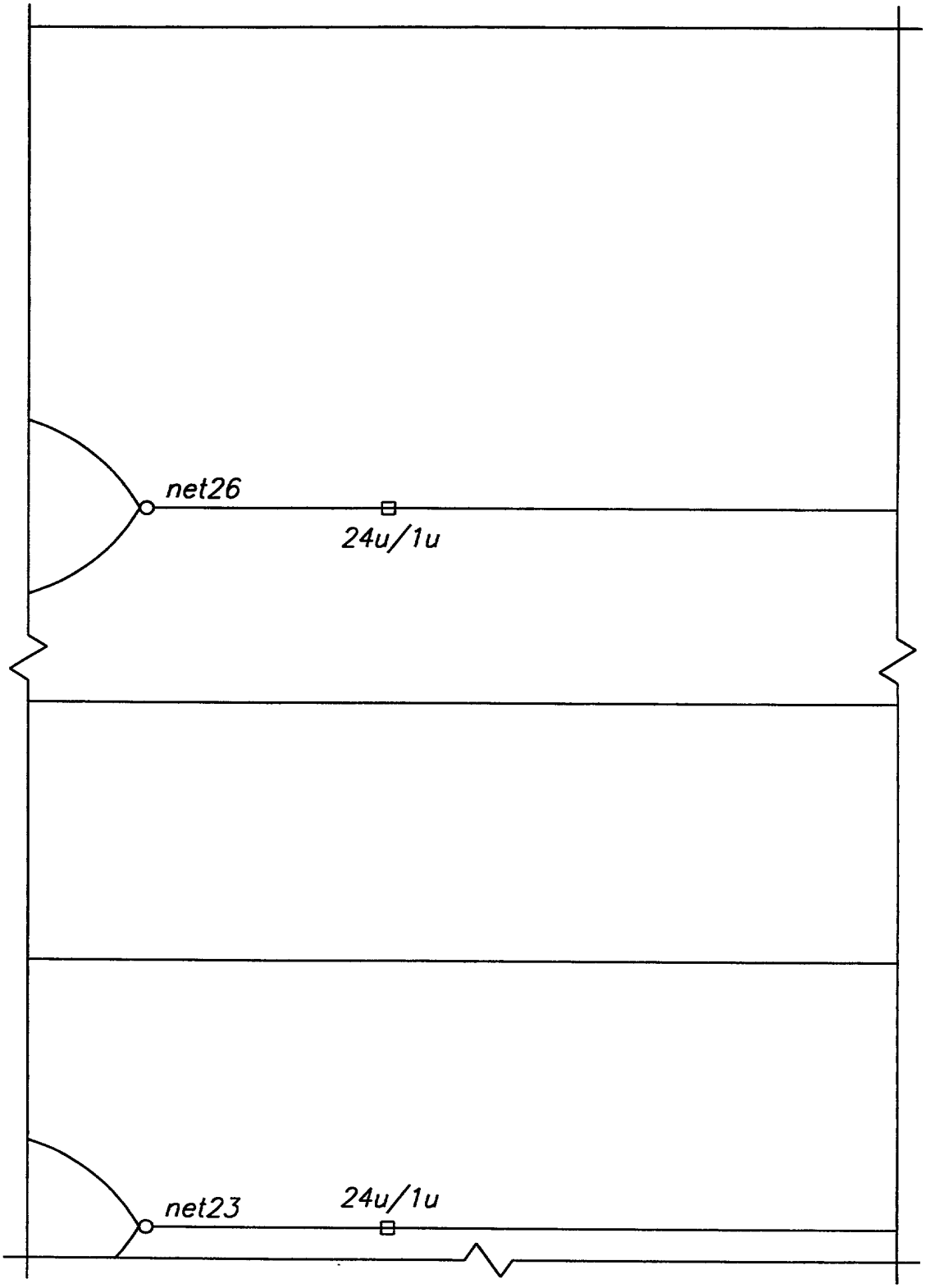


Fig 3.0102BD

Patent application publication

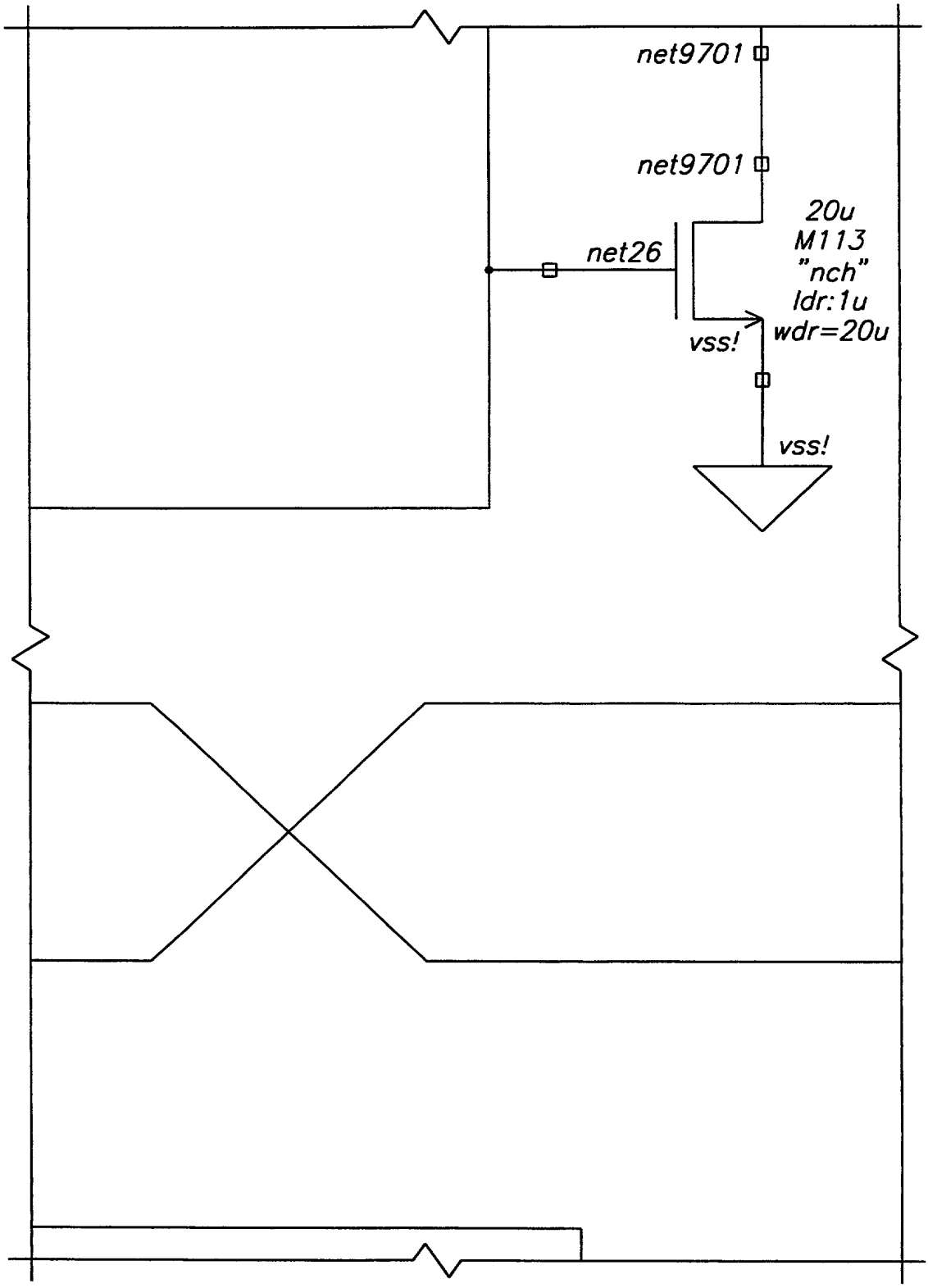


Fig 1.0110286E

FOR EXAMPLE ONLY

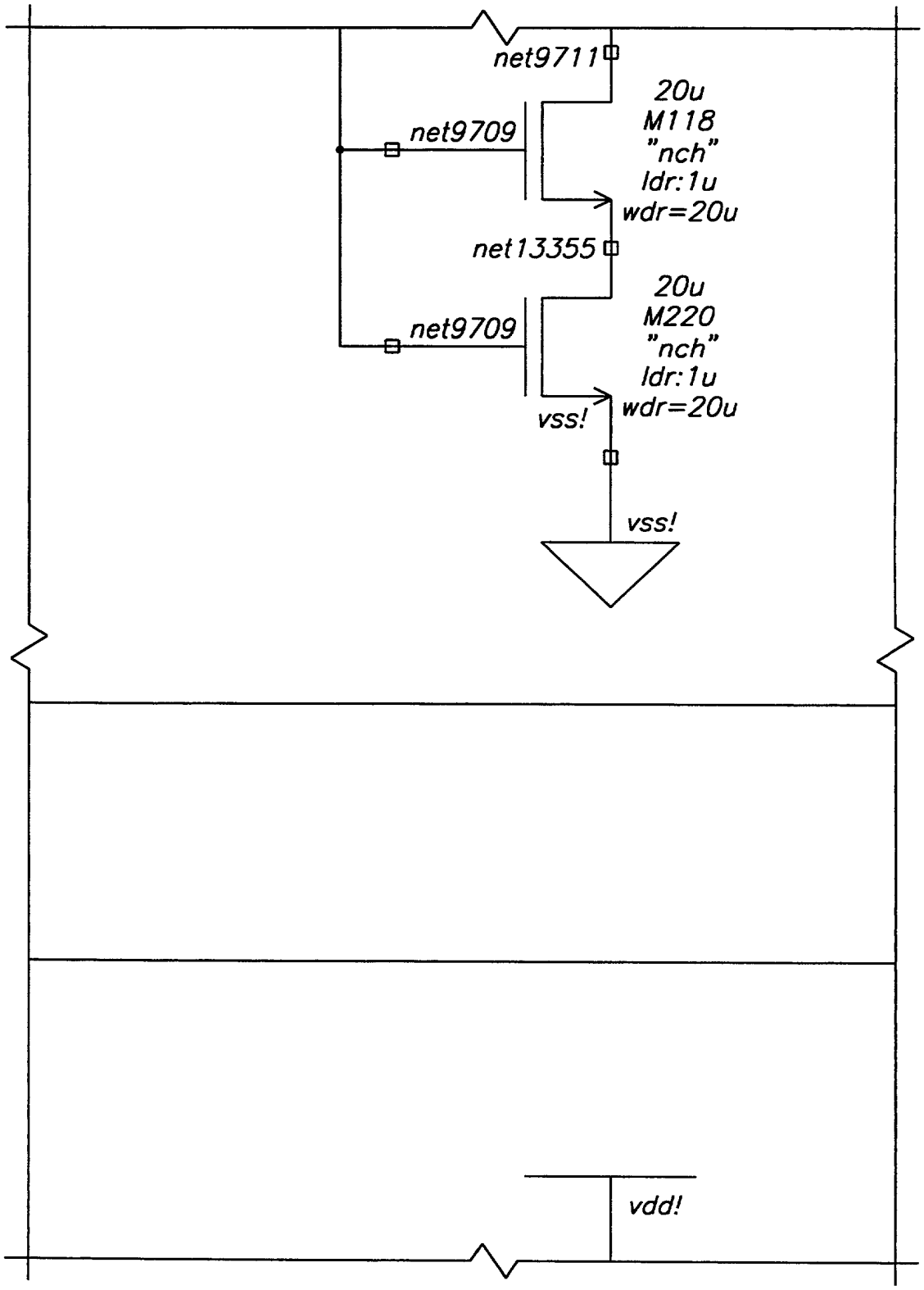


Fig 1.0102BF

Phase 3 - 05/14/01

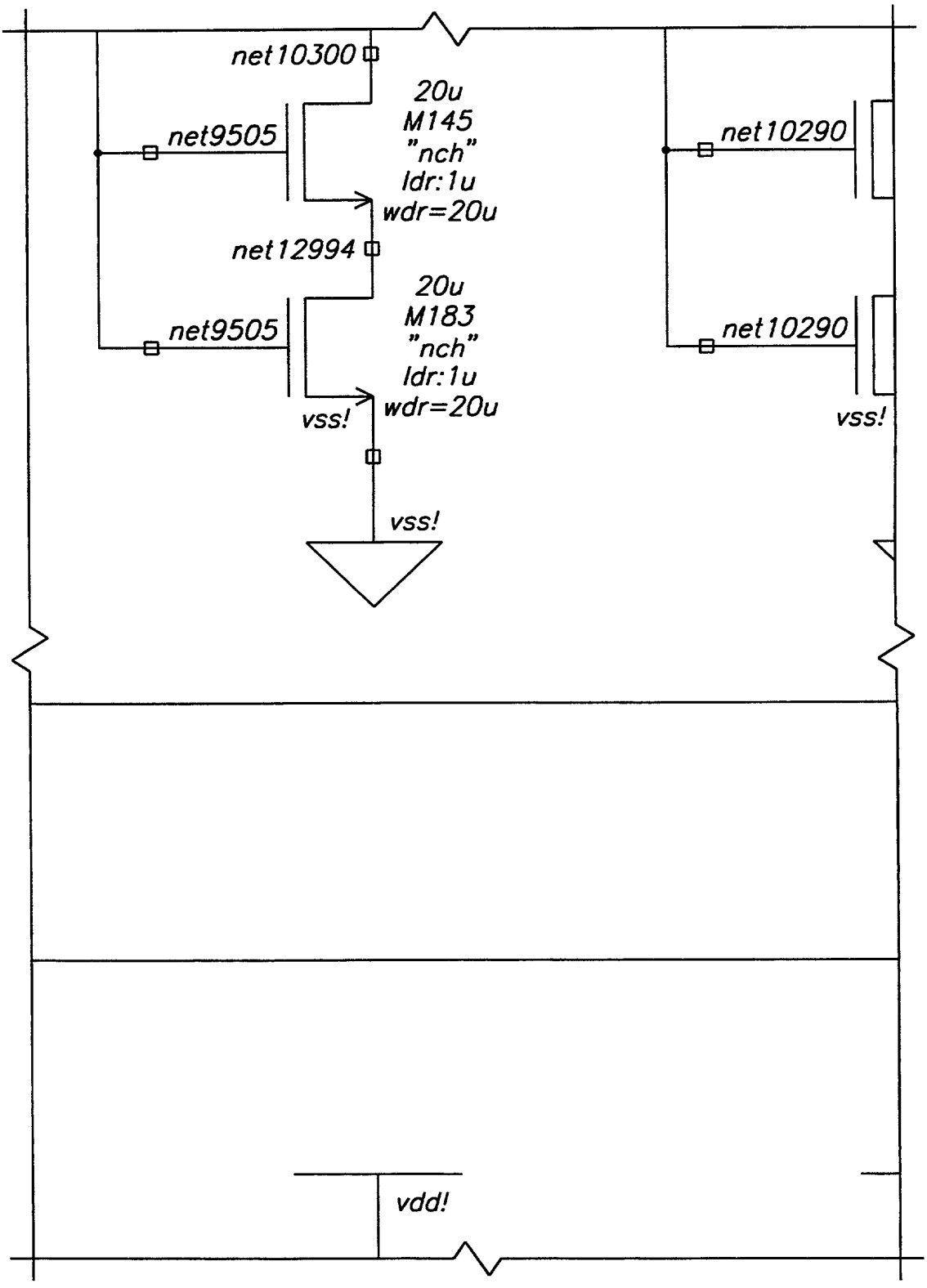


Fig 7.0102B6

Patent Drawing

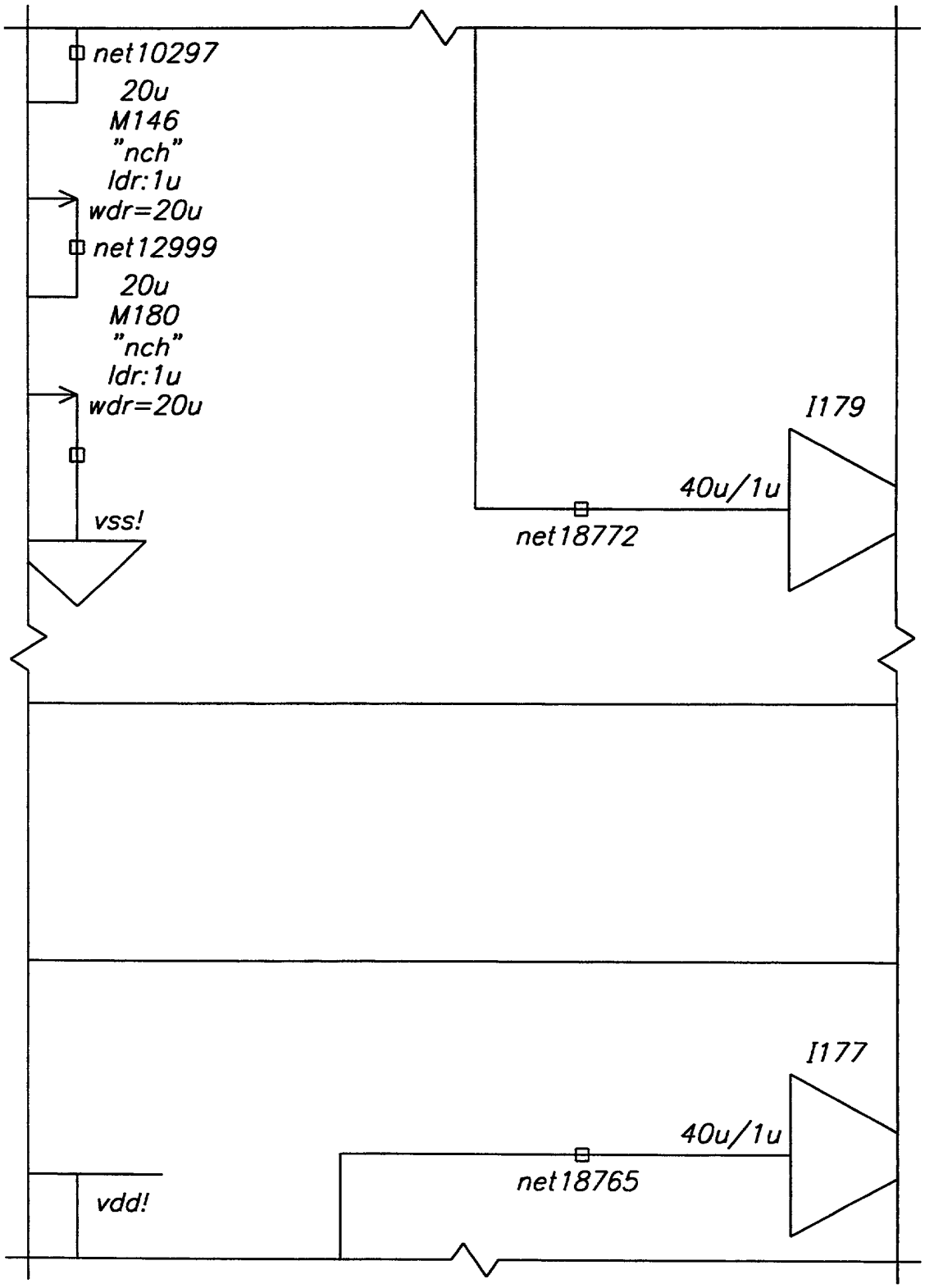

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Fig 7.0102BH

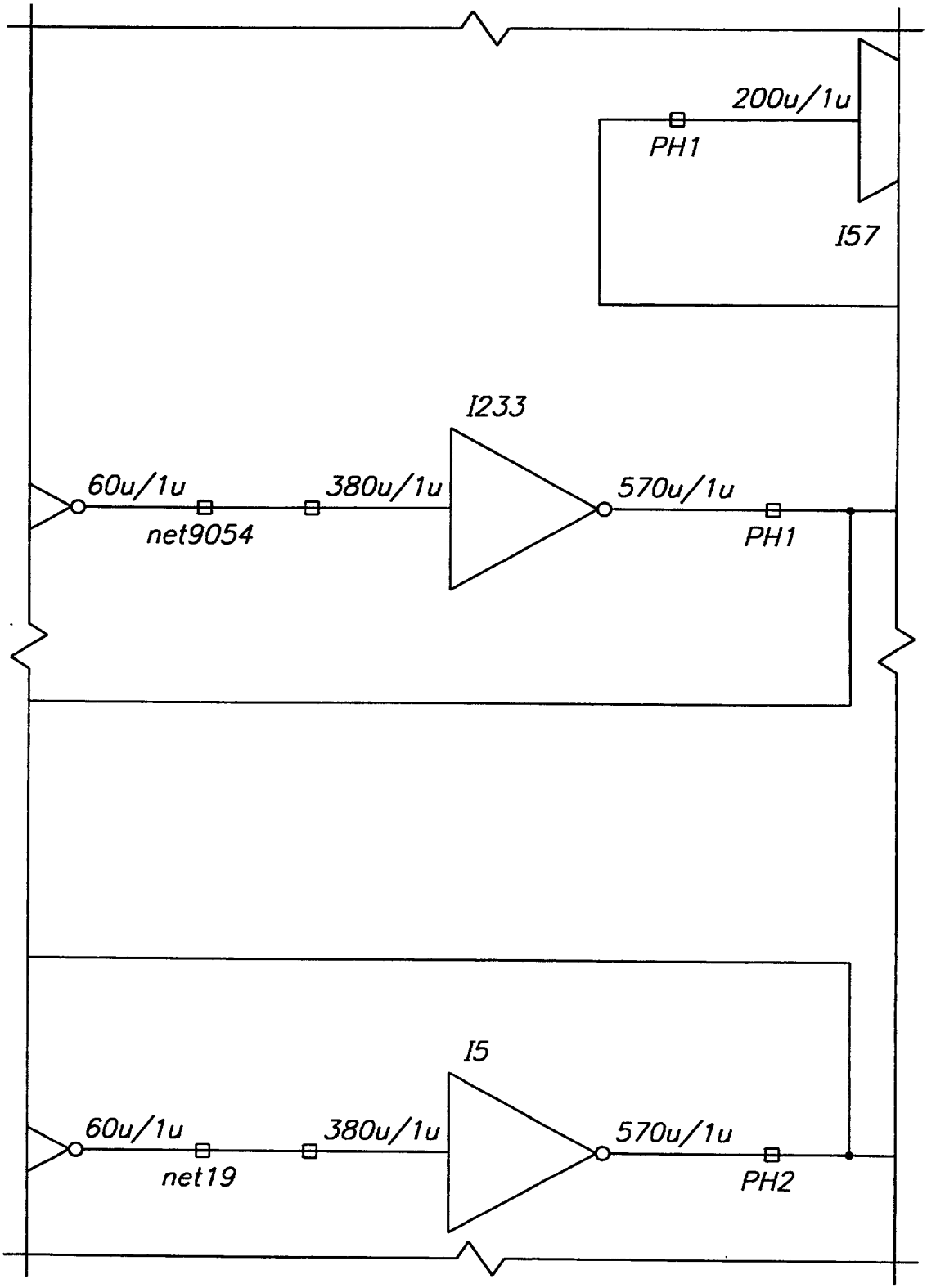

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Fig 1.0102BI

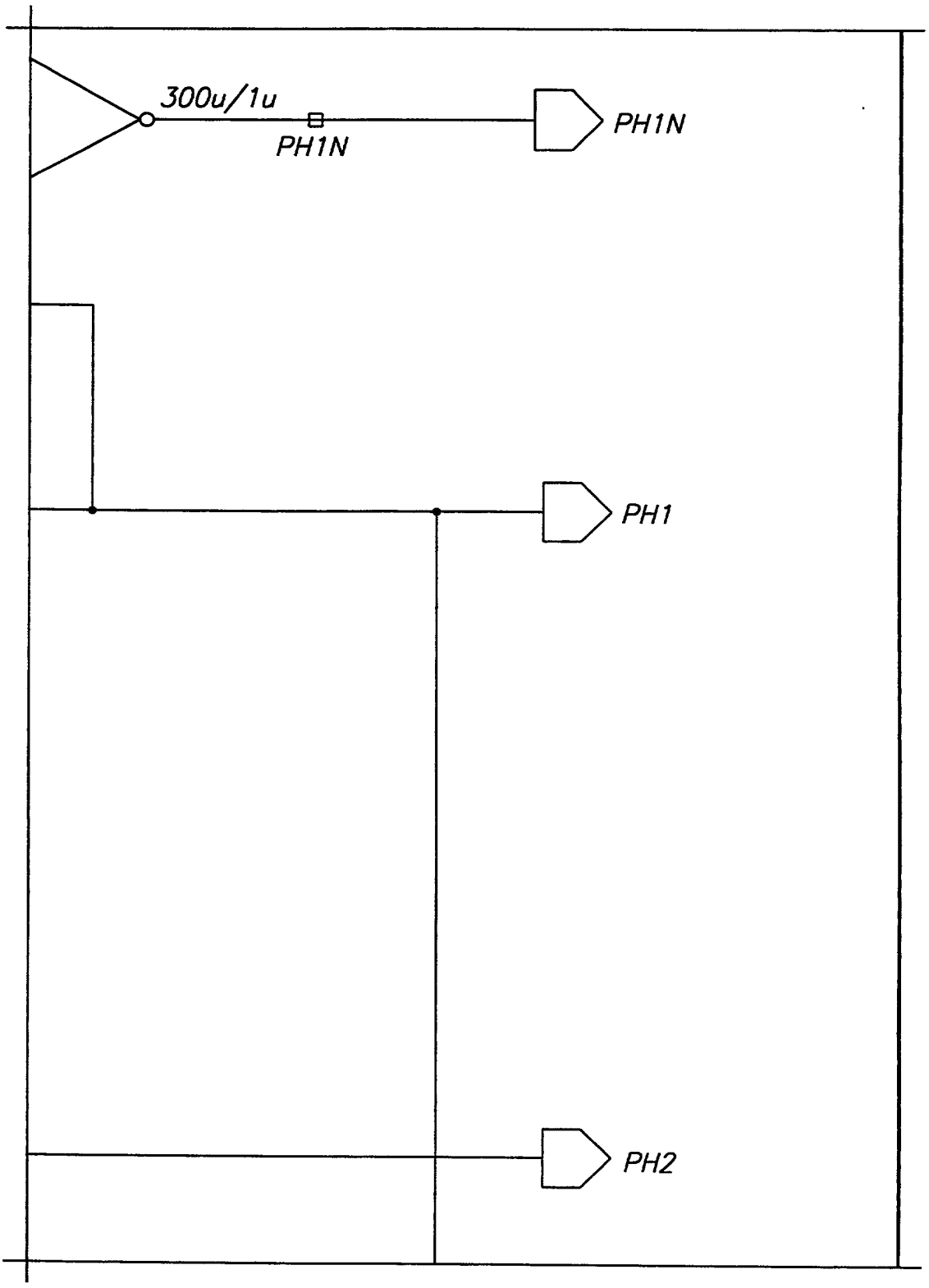


Fig 1.0102B

Sheet 154 of 3273

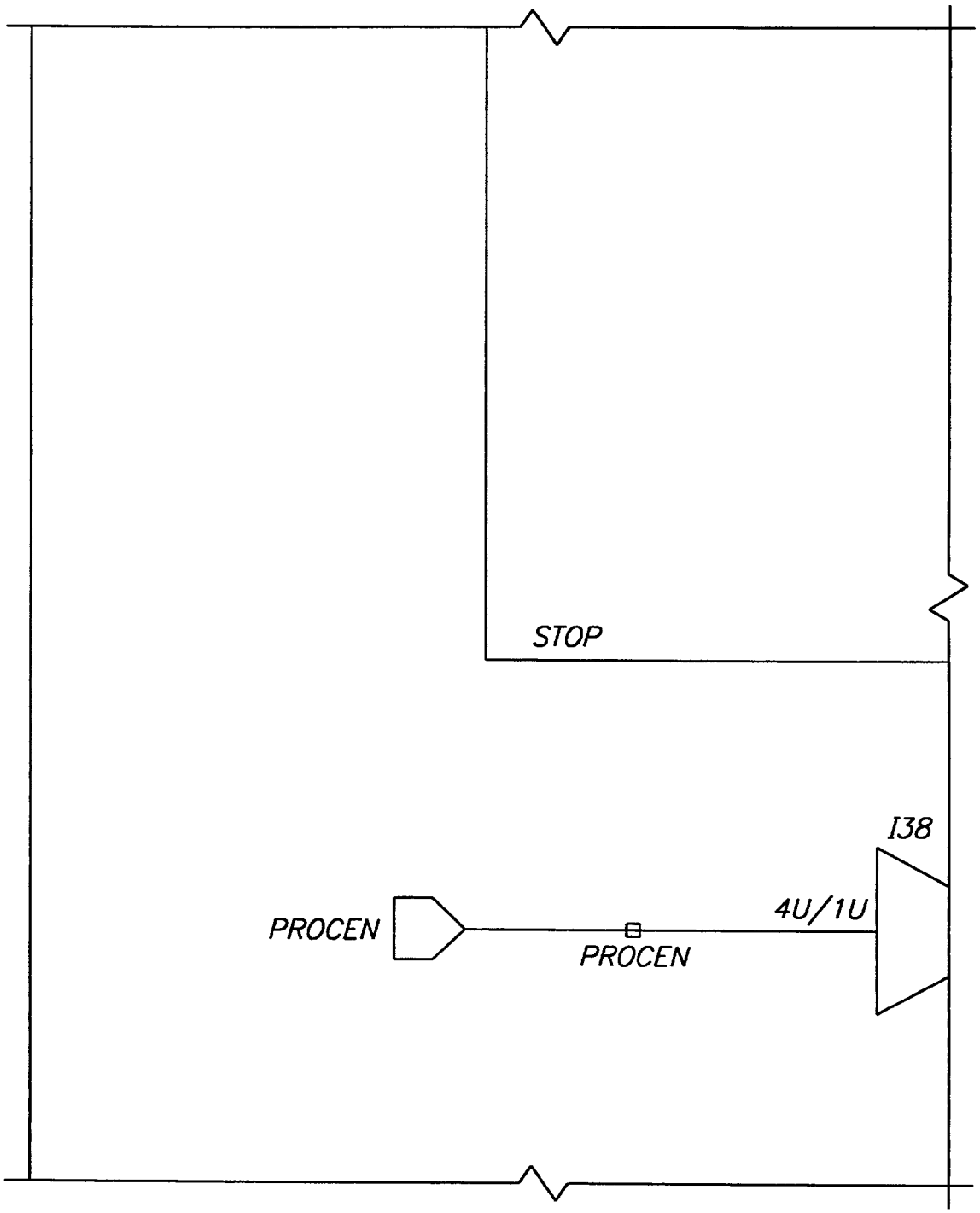


Fig 1.0102CA

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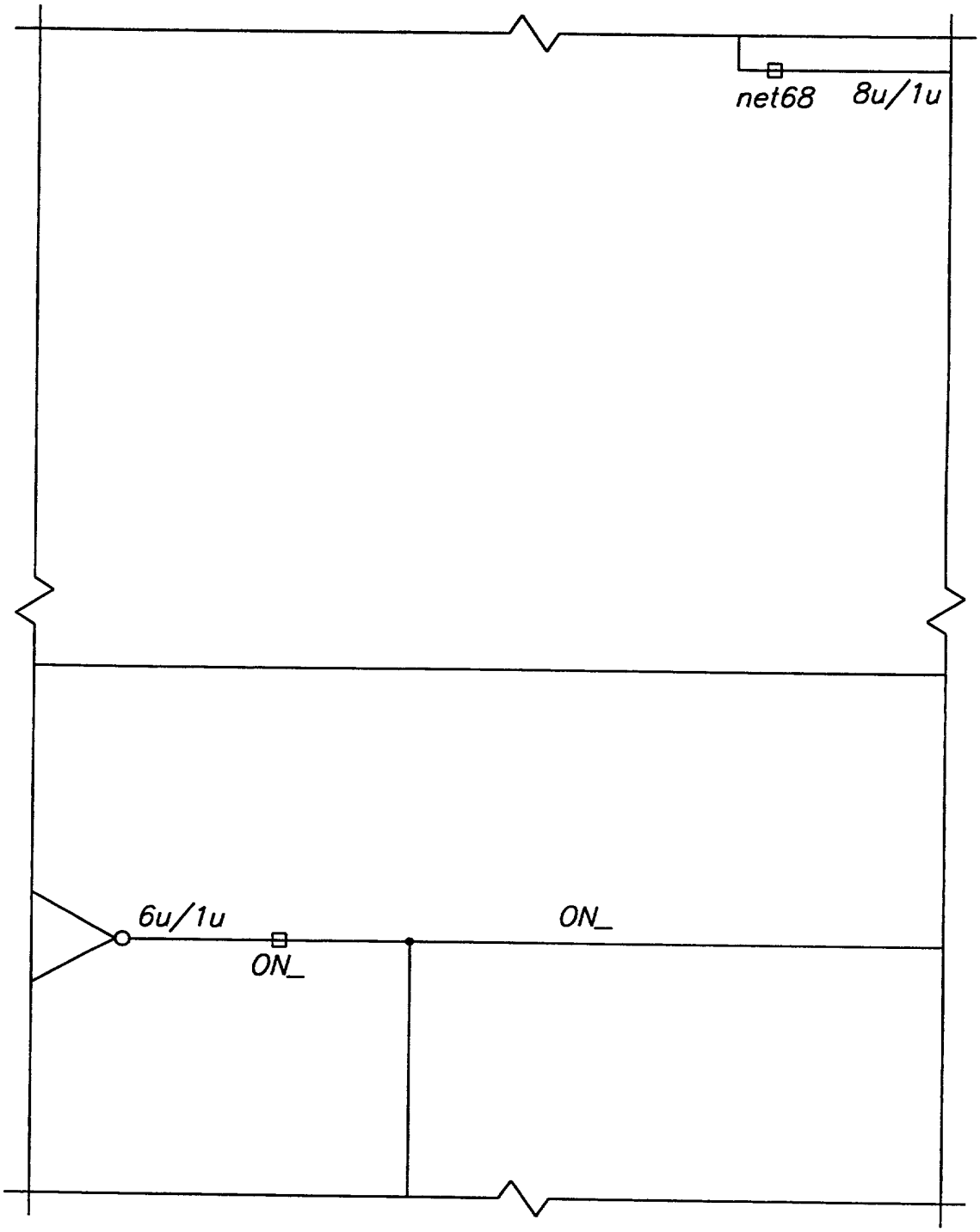


Fig 7.00102CB

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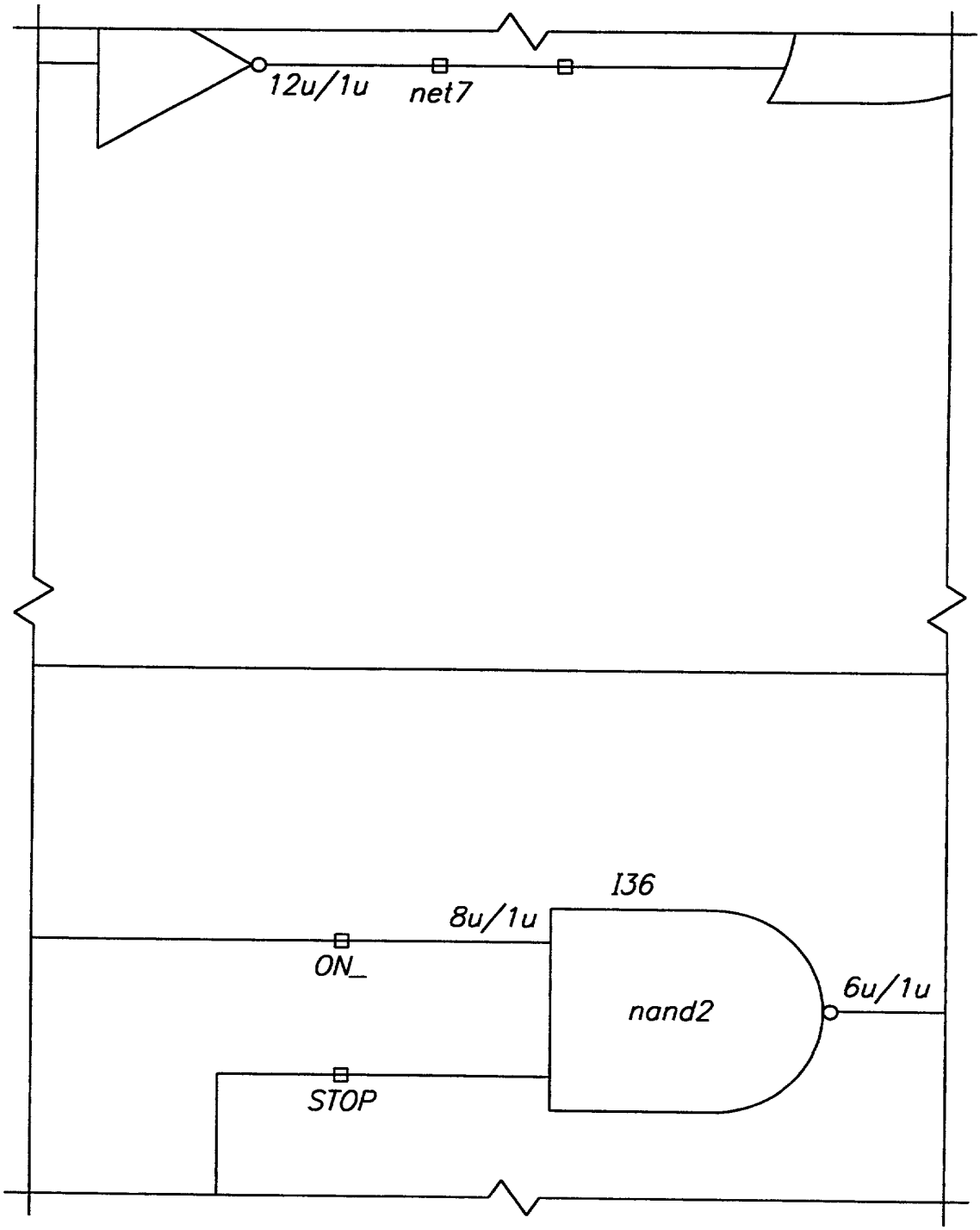


Fig 7.0102CC

Approved for Release: 2022/05/24 C05974051

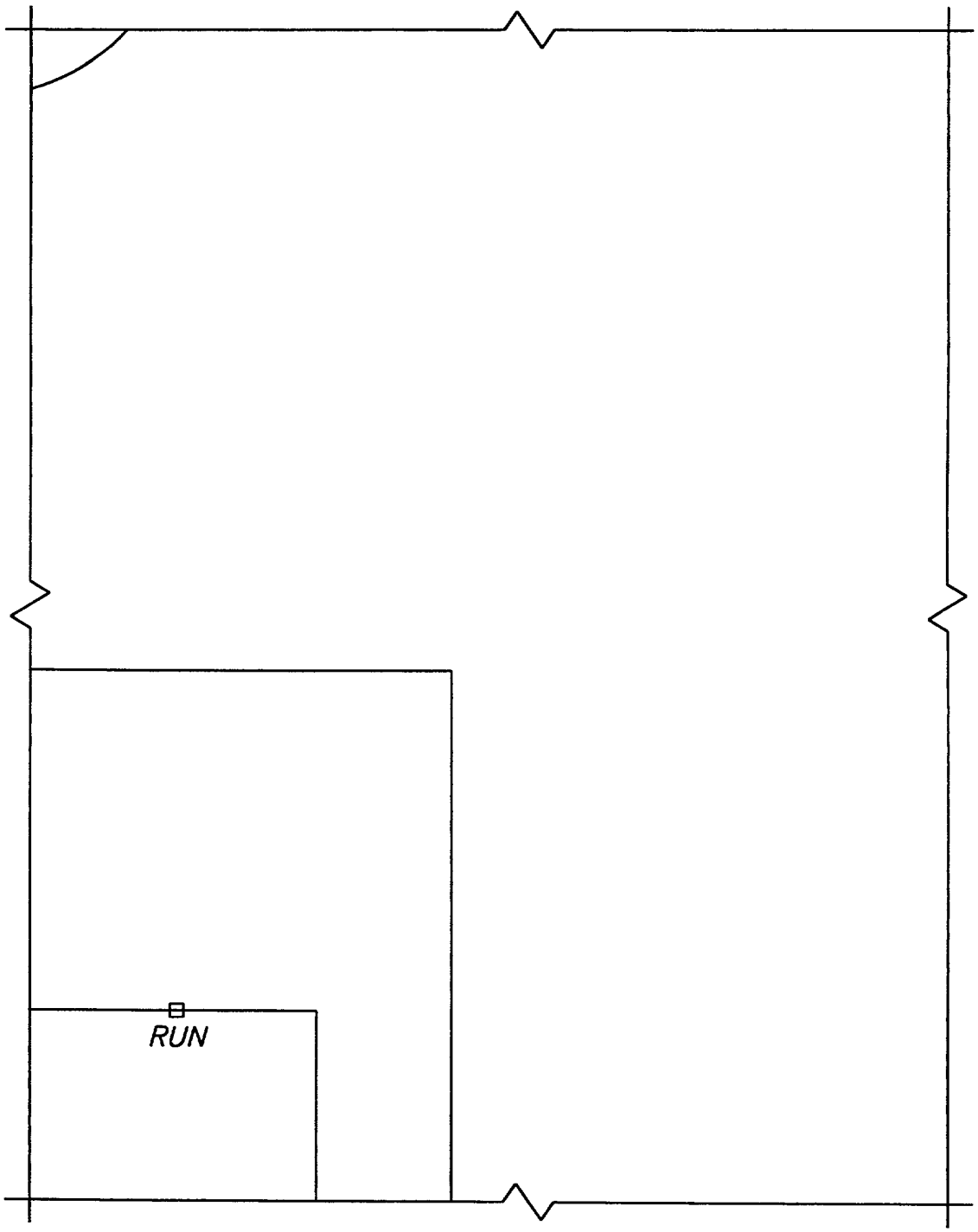


Fig 1.0102CD

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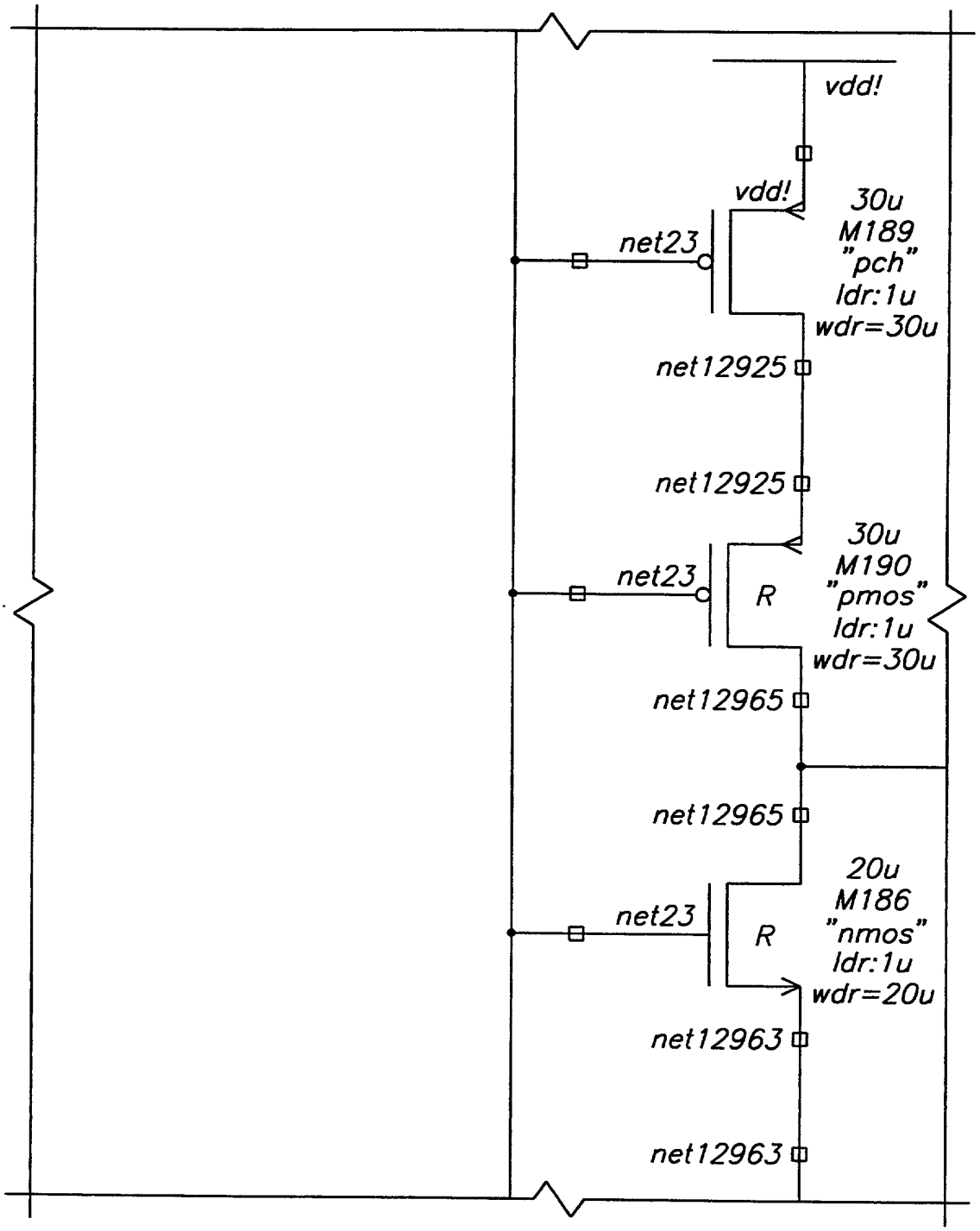

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Fig 3.0102E

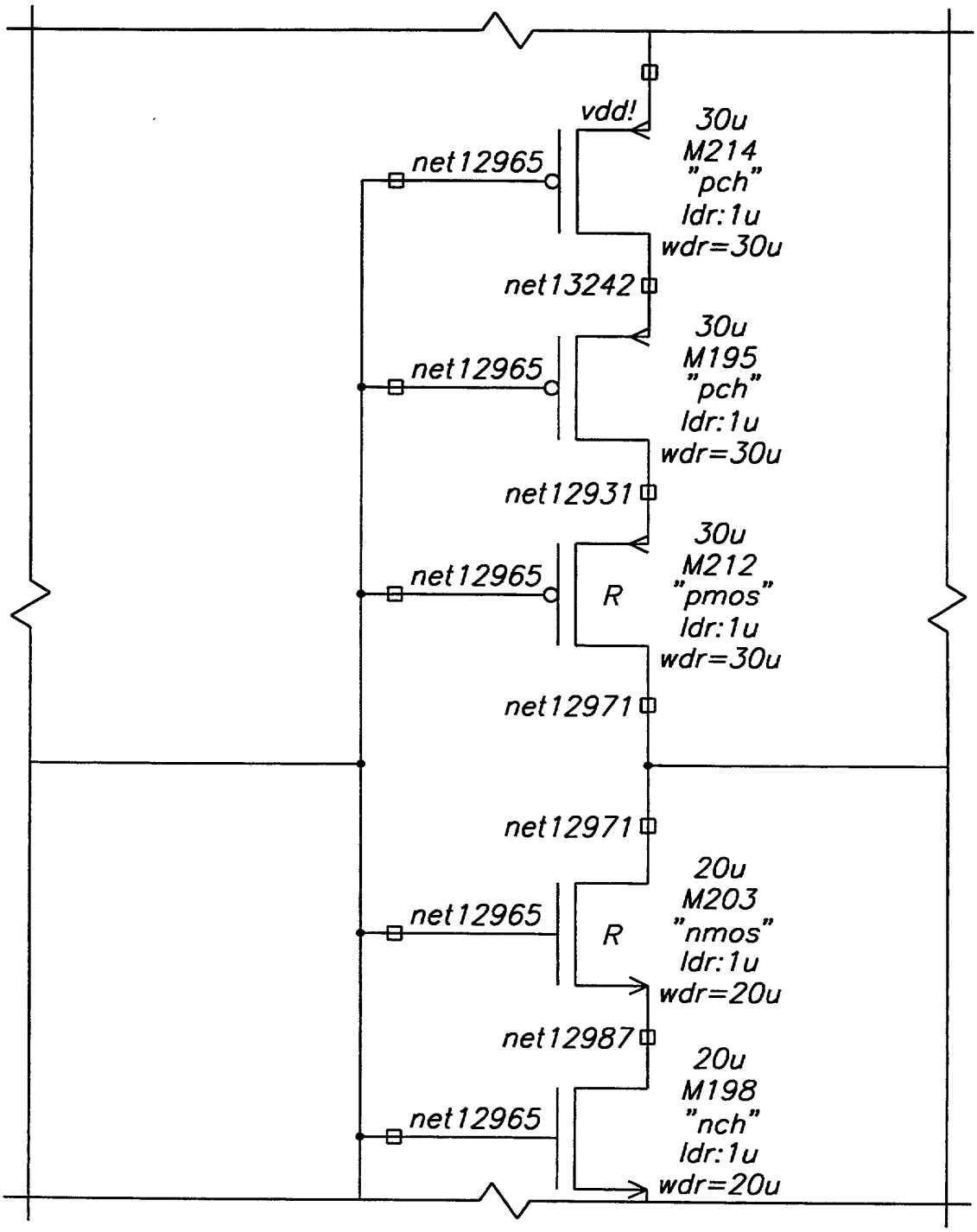

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Fig 1.0102CF

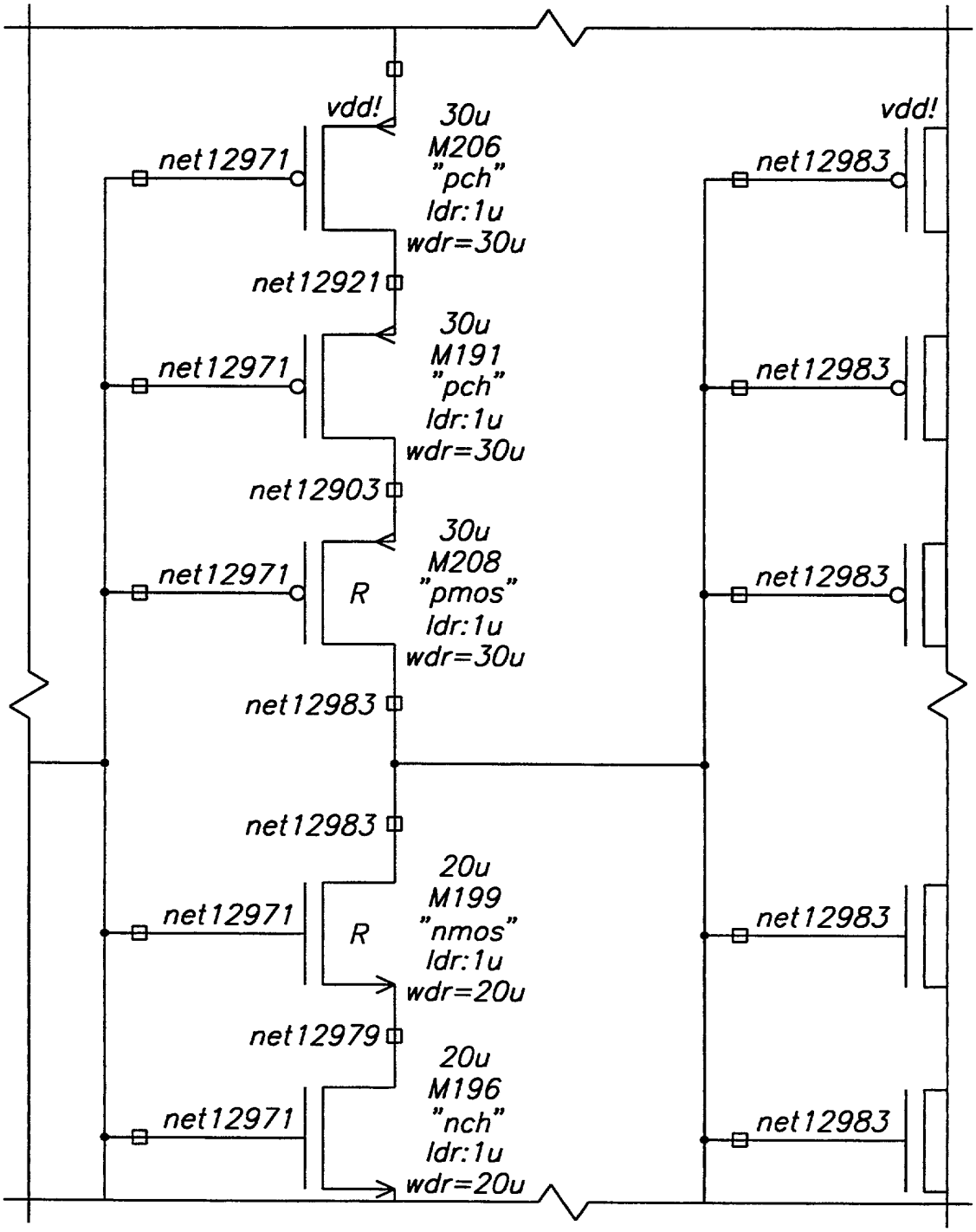
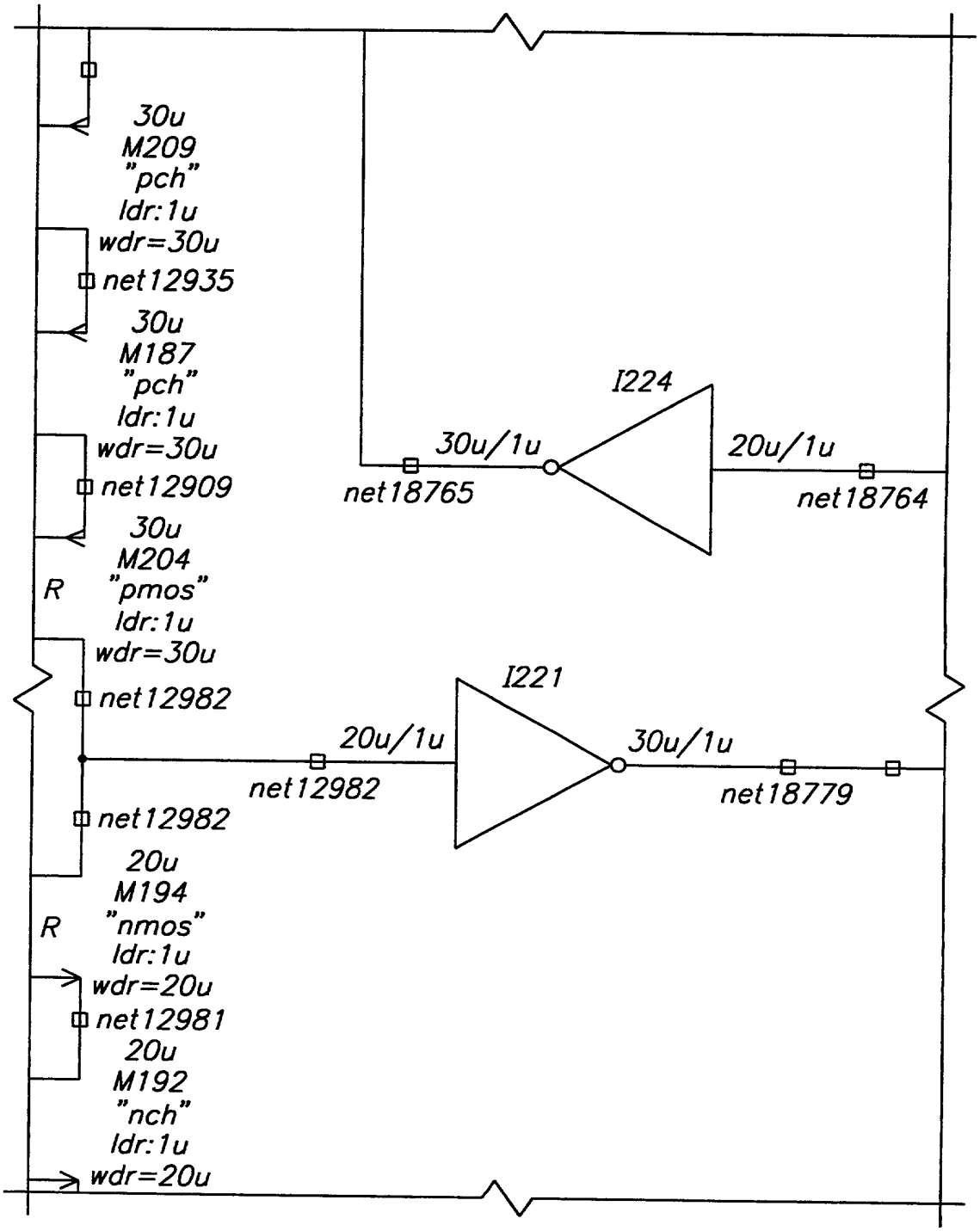


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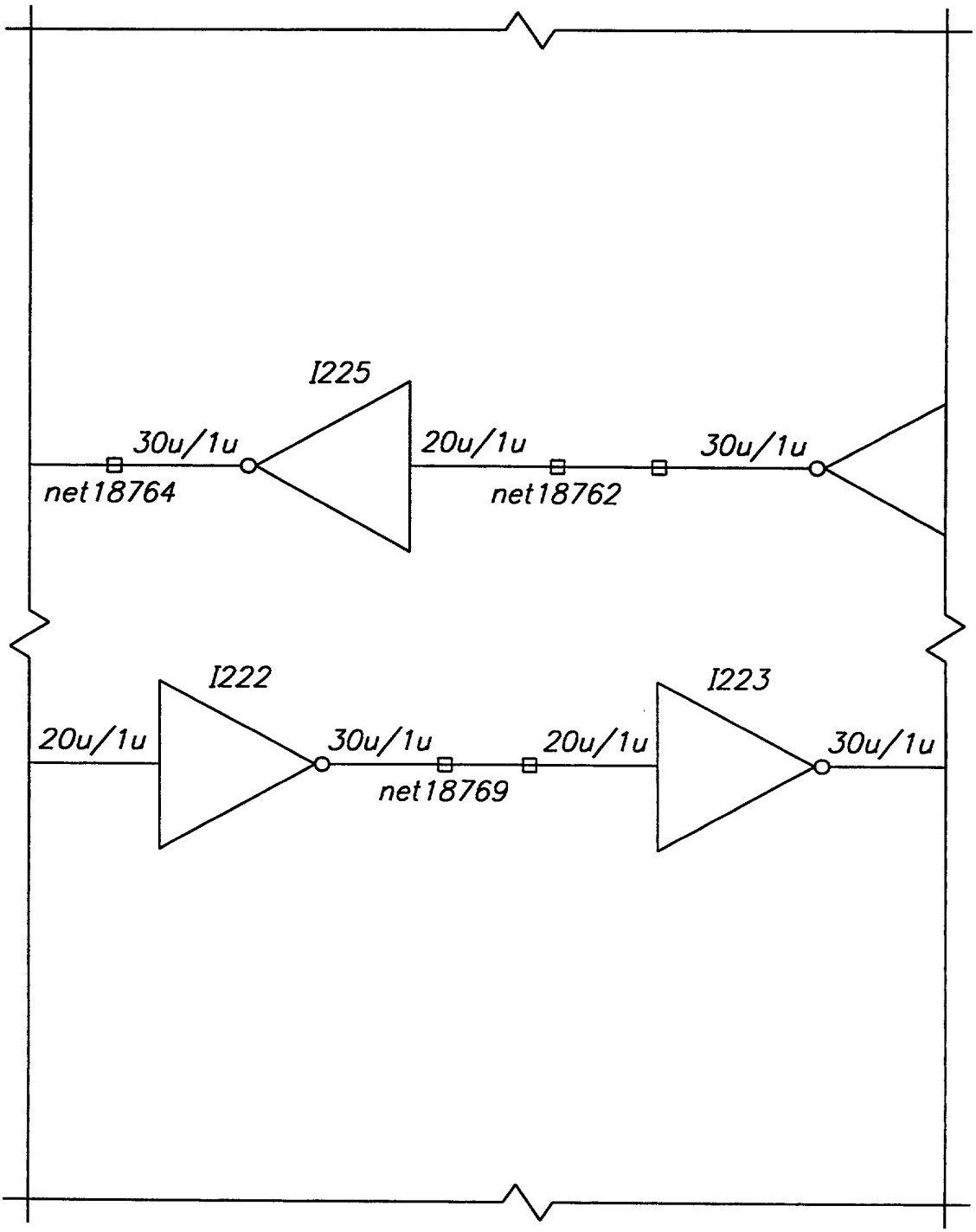


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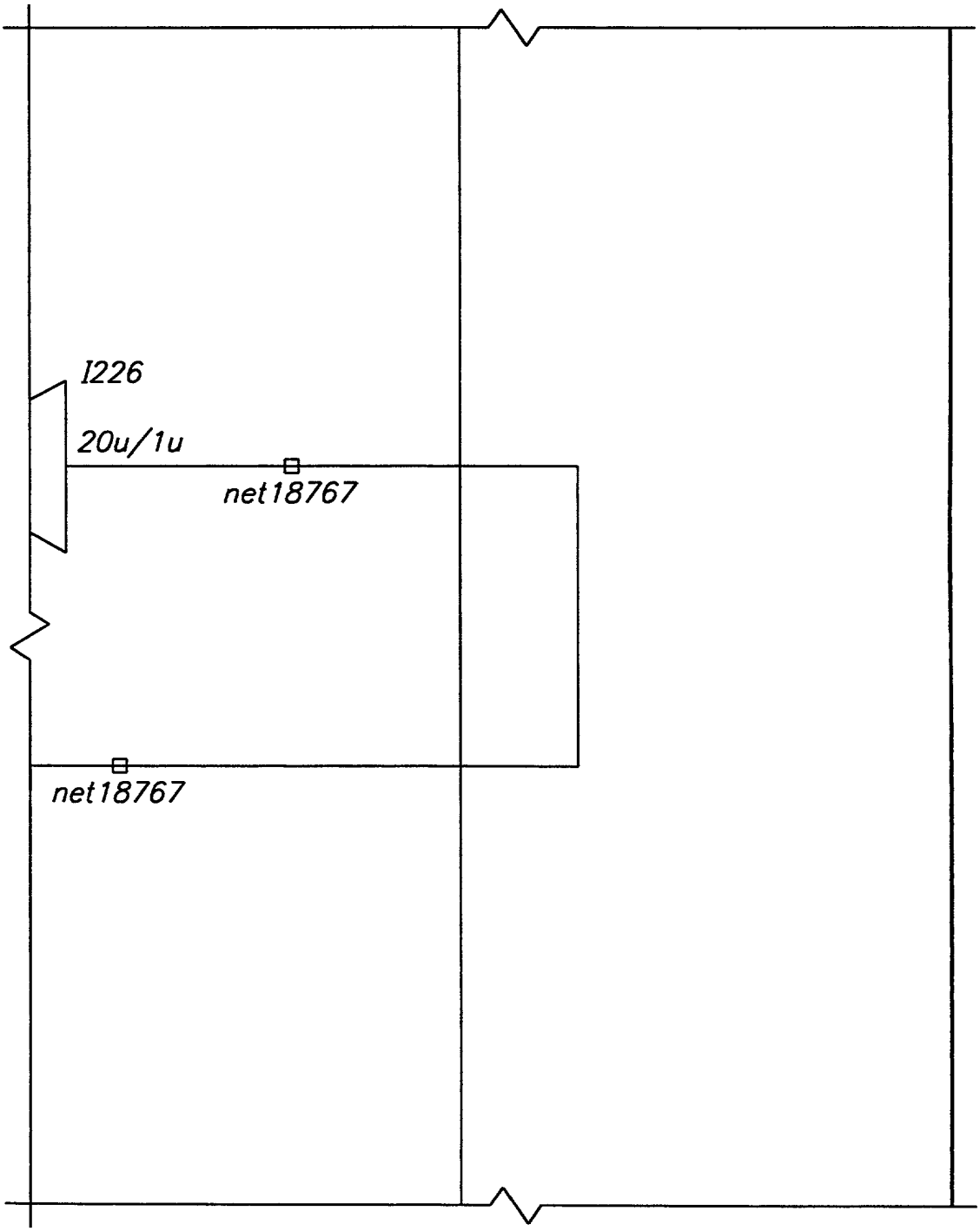


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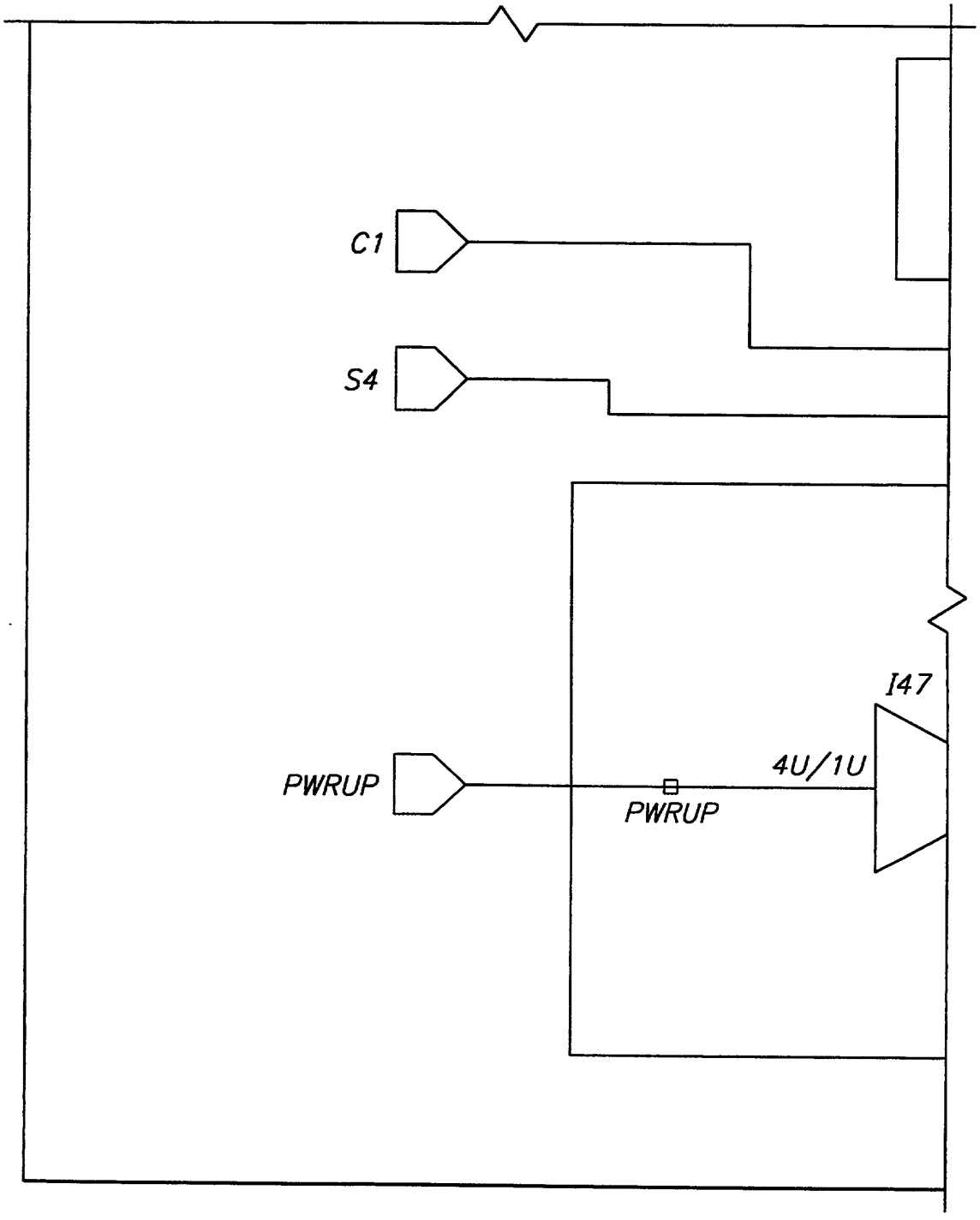


Fig 1.0102DA

Patent Application Publication

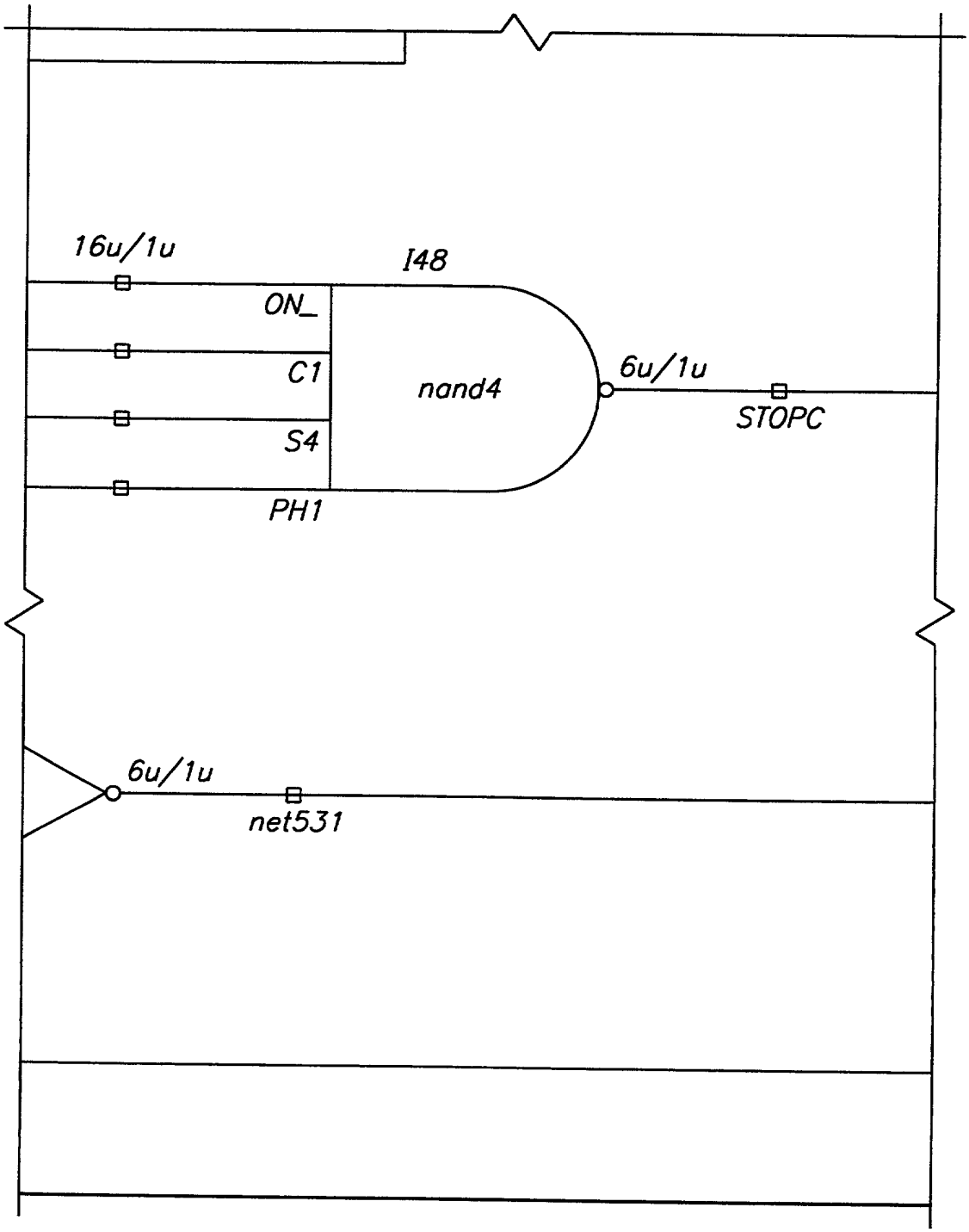


Fig 7.0102DB

US5452250

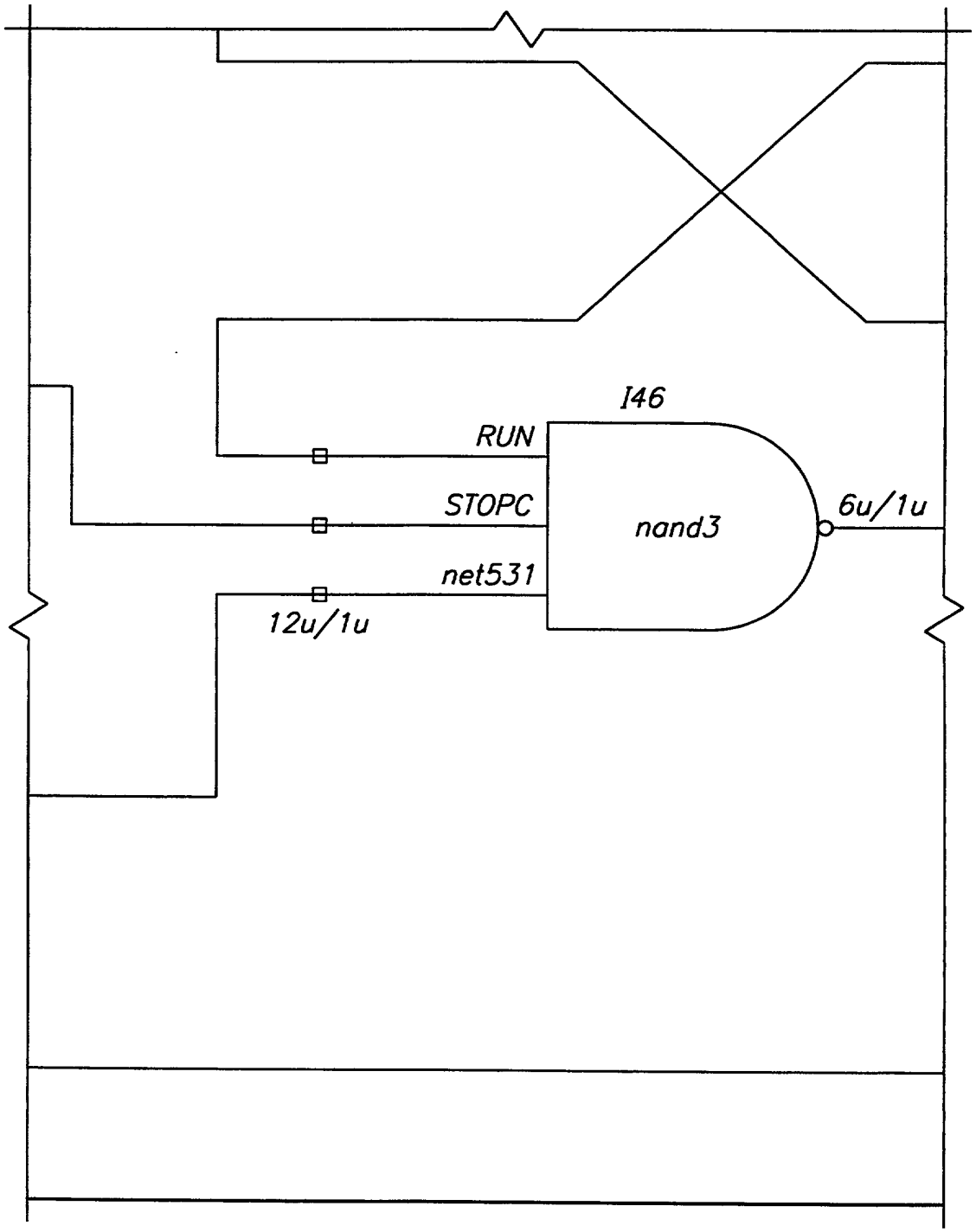


Fig 1.0102DC

168/3273

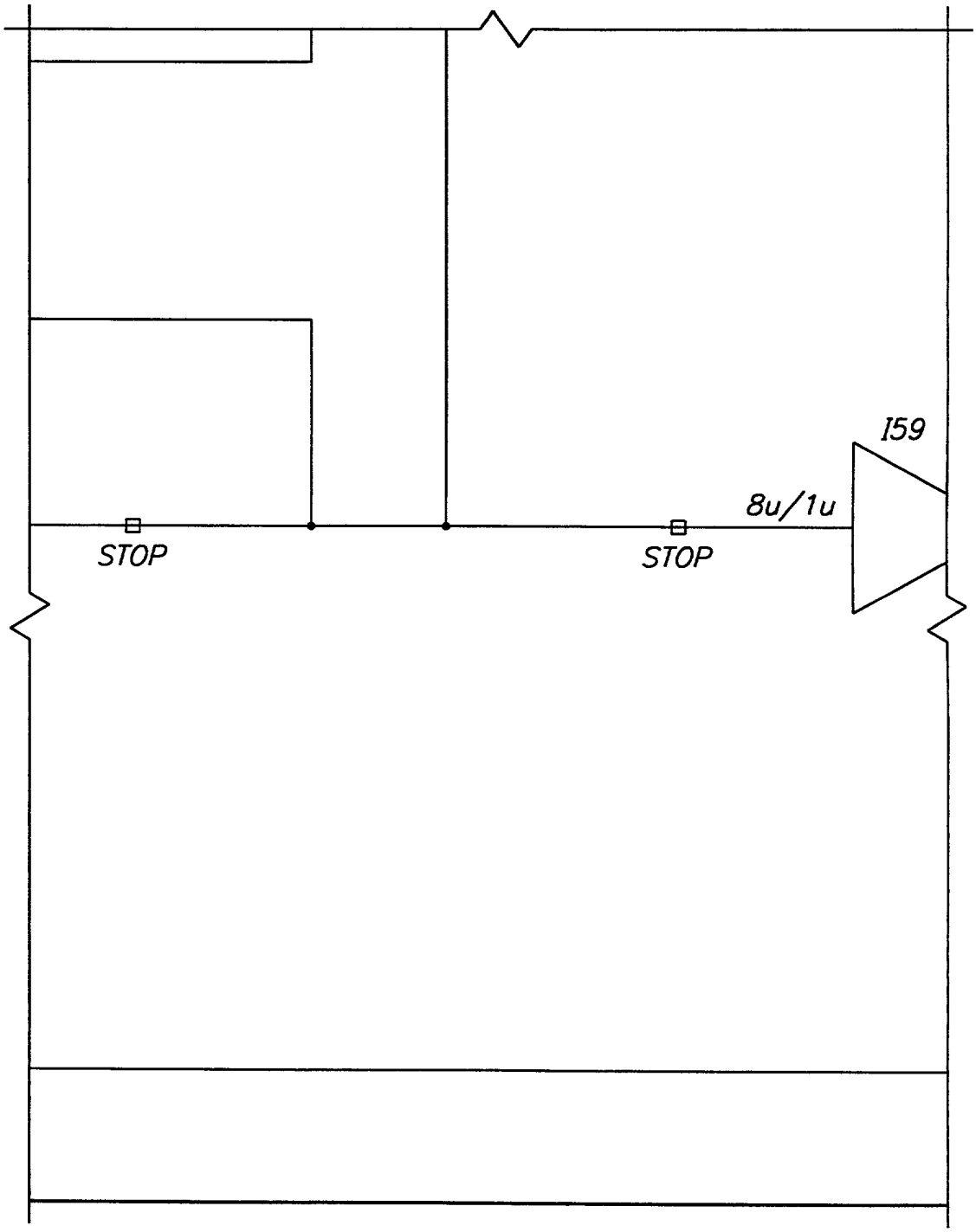


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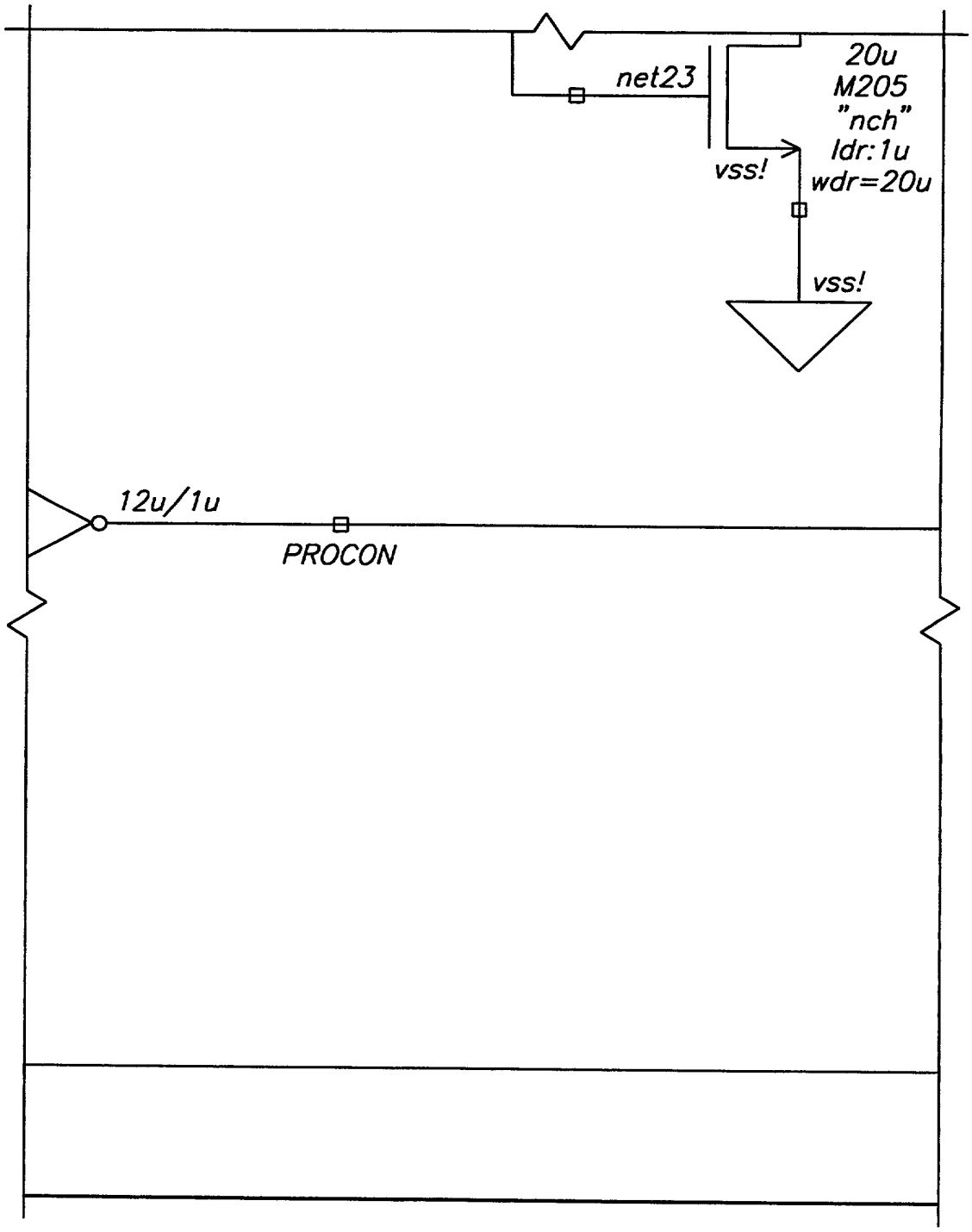


Fig 1.0102DE

09622653 - 05.12.03

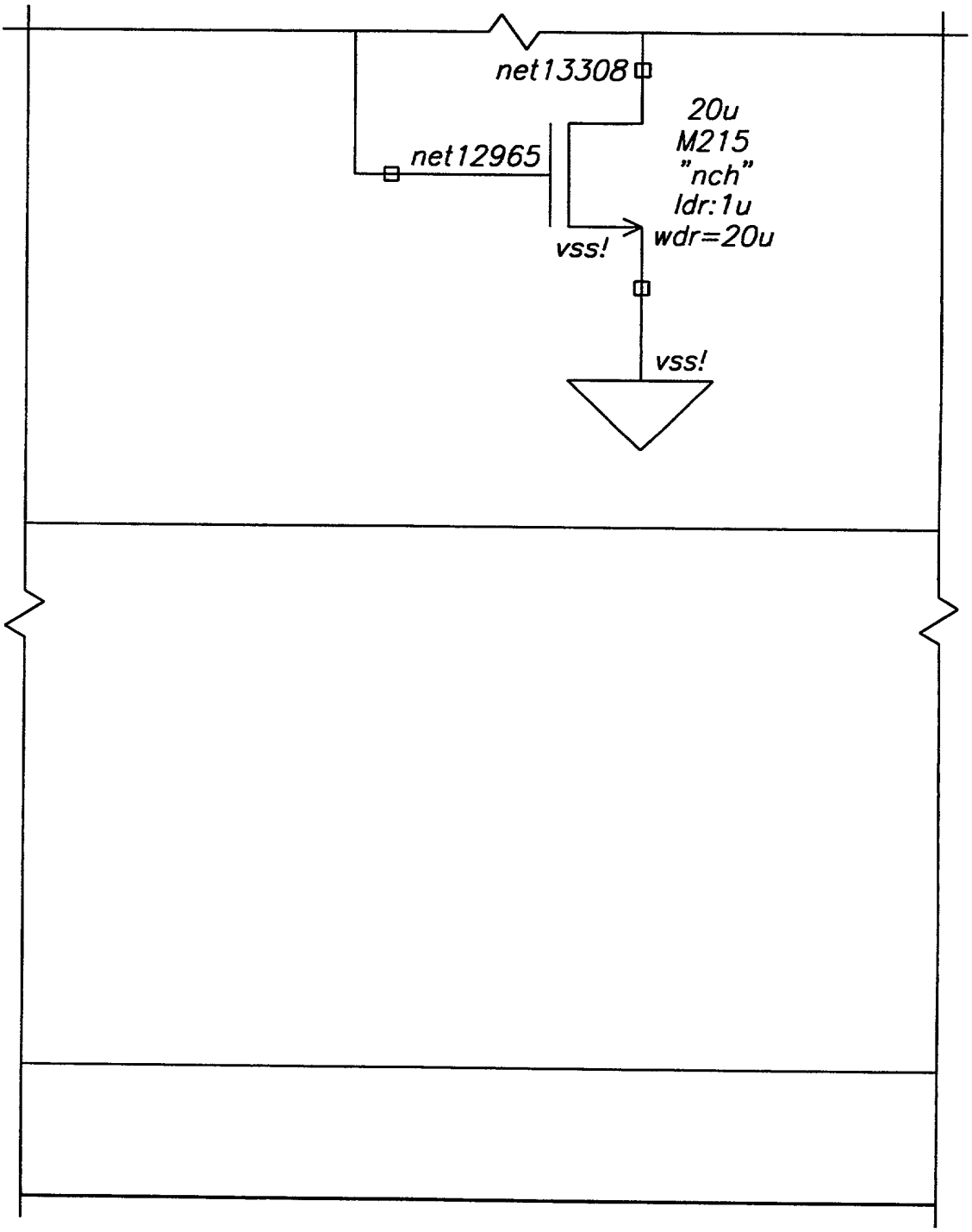


Fig 1.0102DF

Patent - US 7,509,625

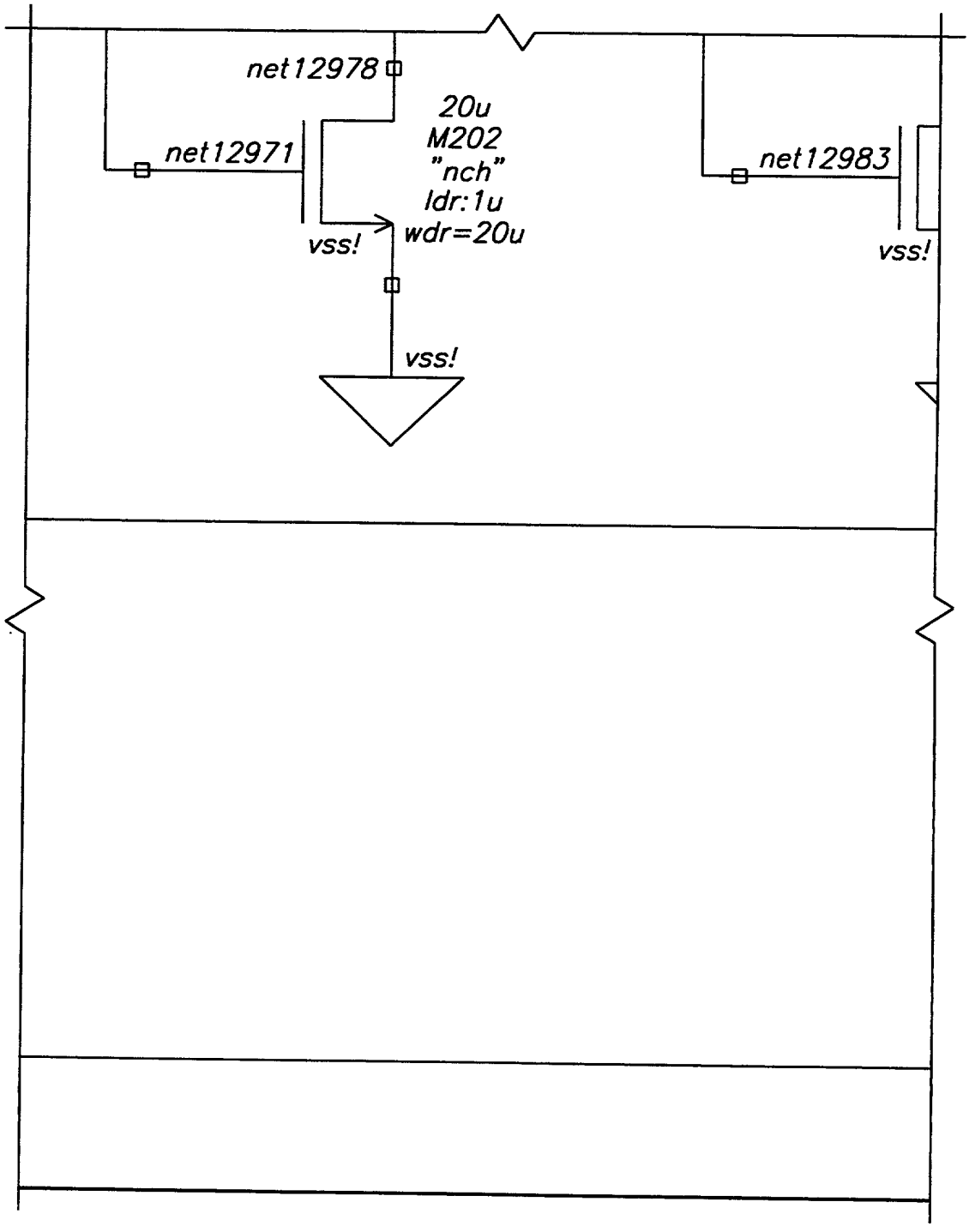


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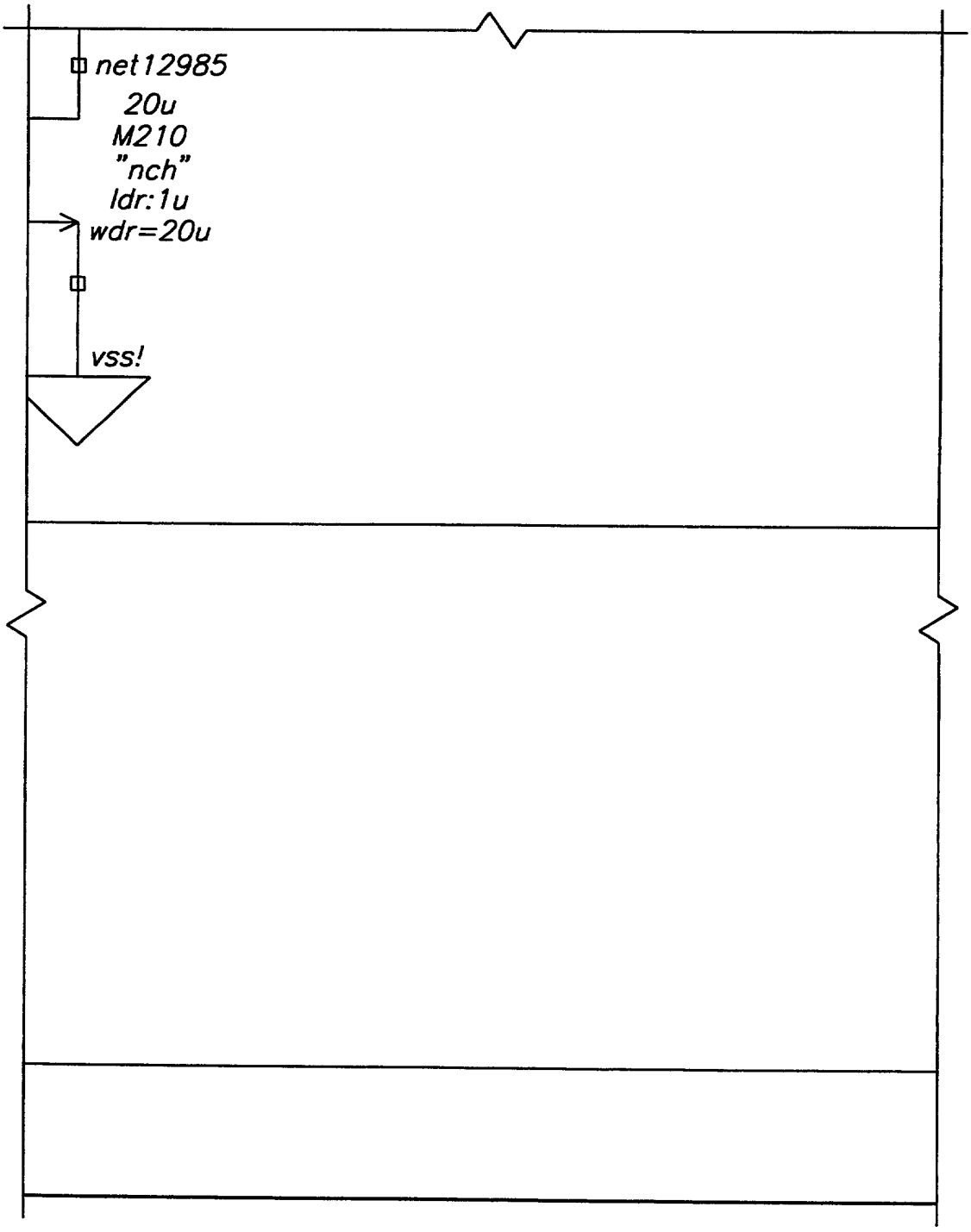


Fig 1.0102DH

Confidential - Synopsys

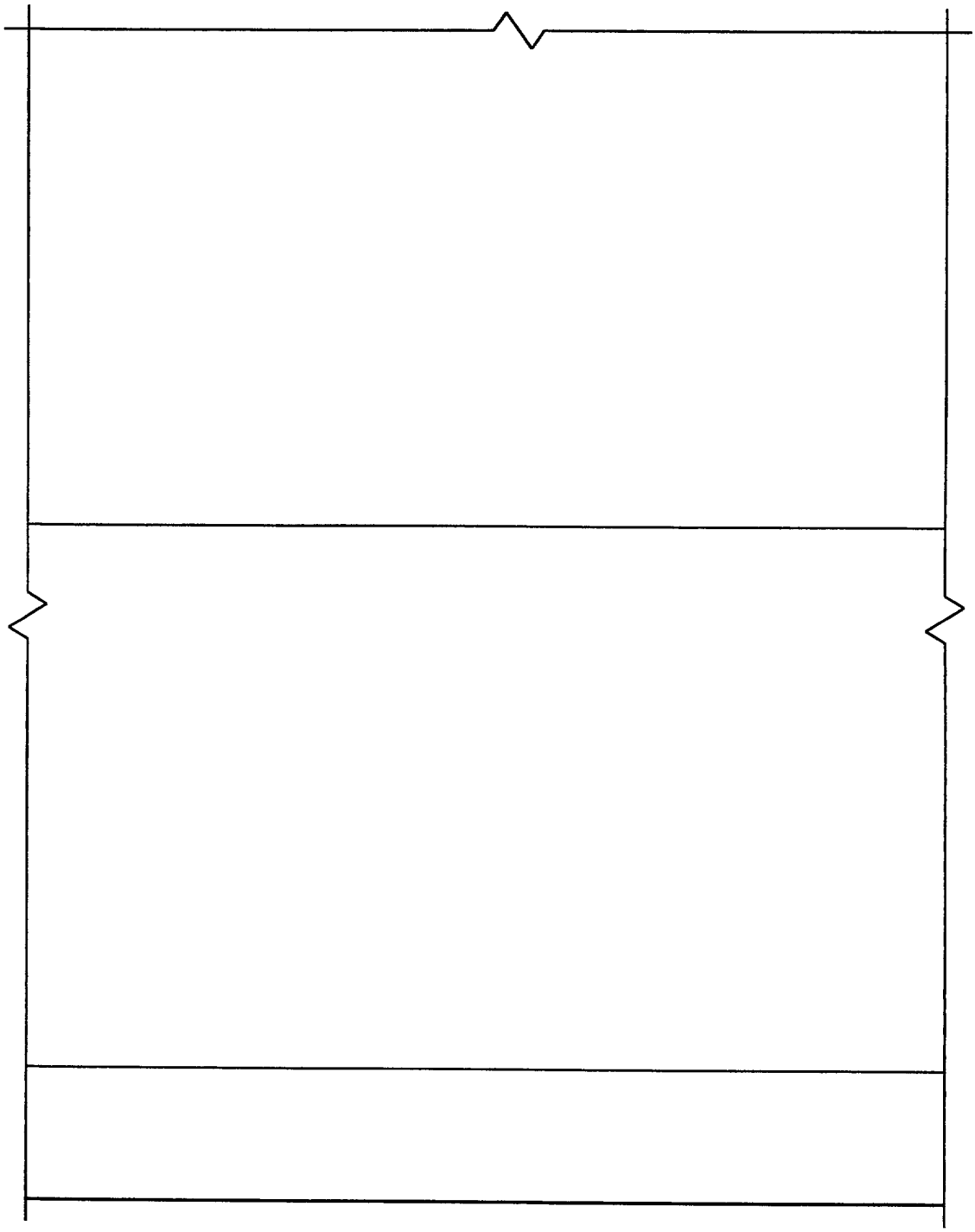


Fig 1.0102011

US 9,534,054 B2

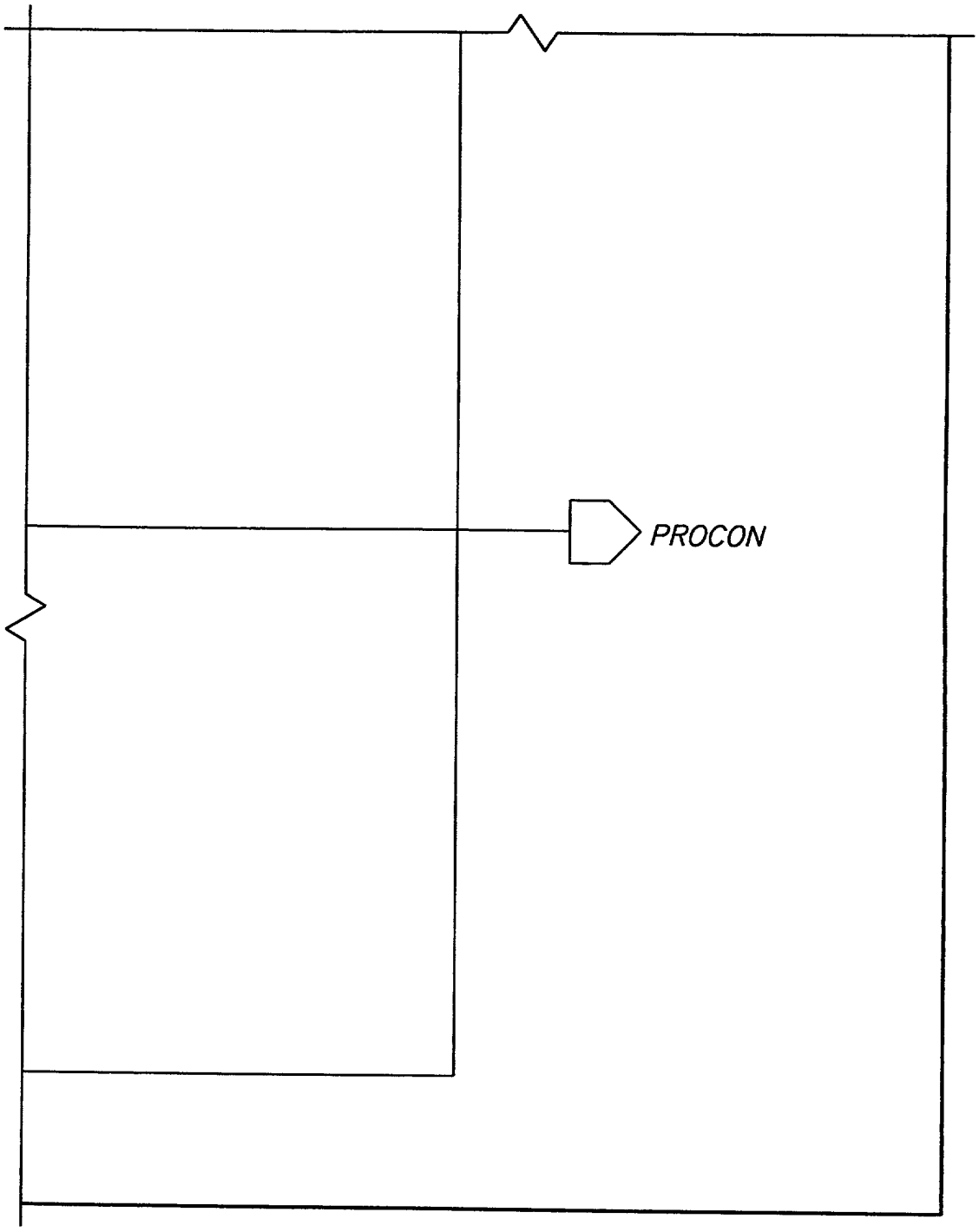


Fig 1.0102D.1

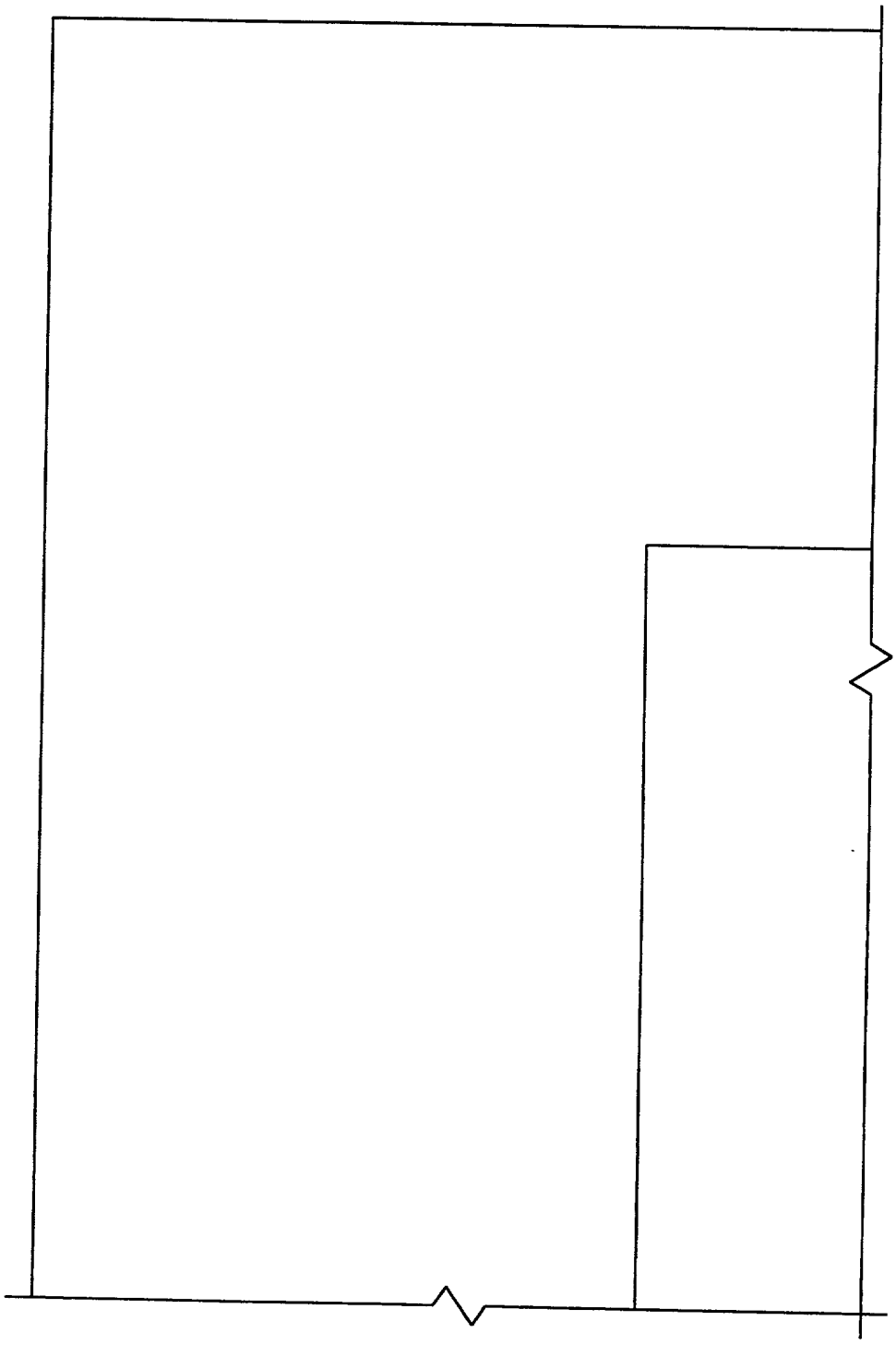
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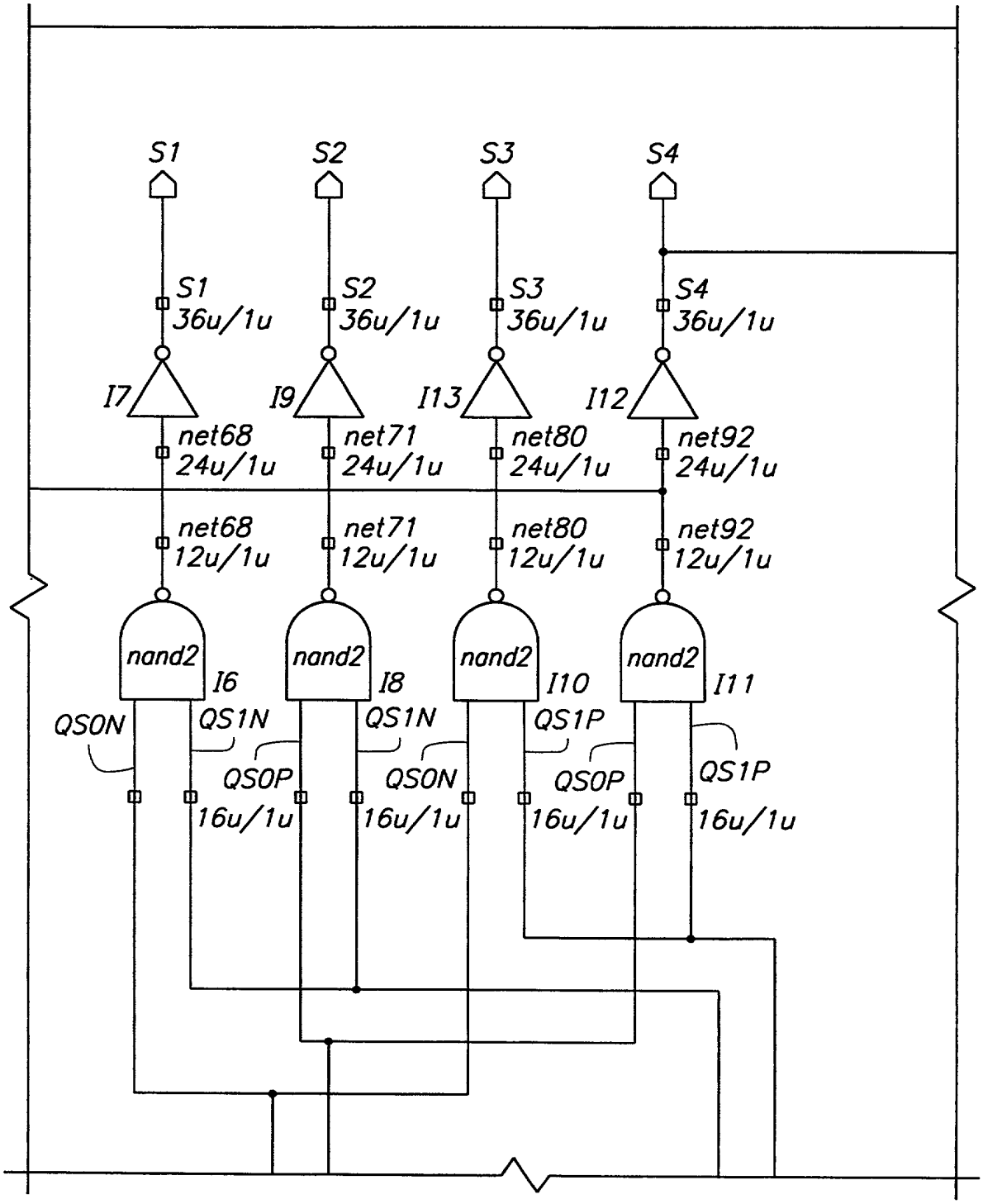
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Fig 7.0103

176/3273



Εικ 1.0103ΑΑ



Фиг 1.0103АВ

RU 2 529 265 C1

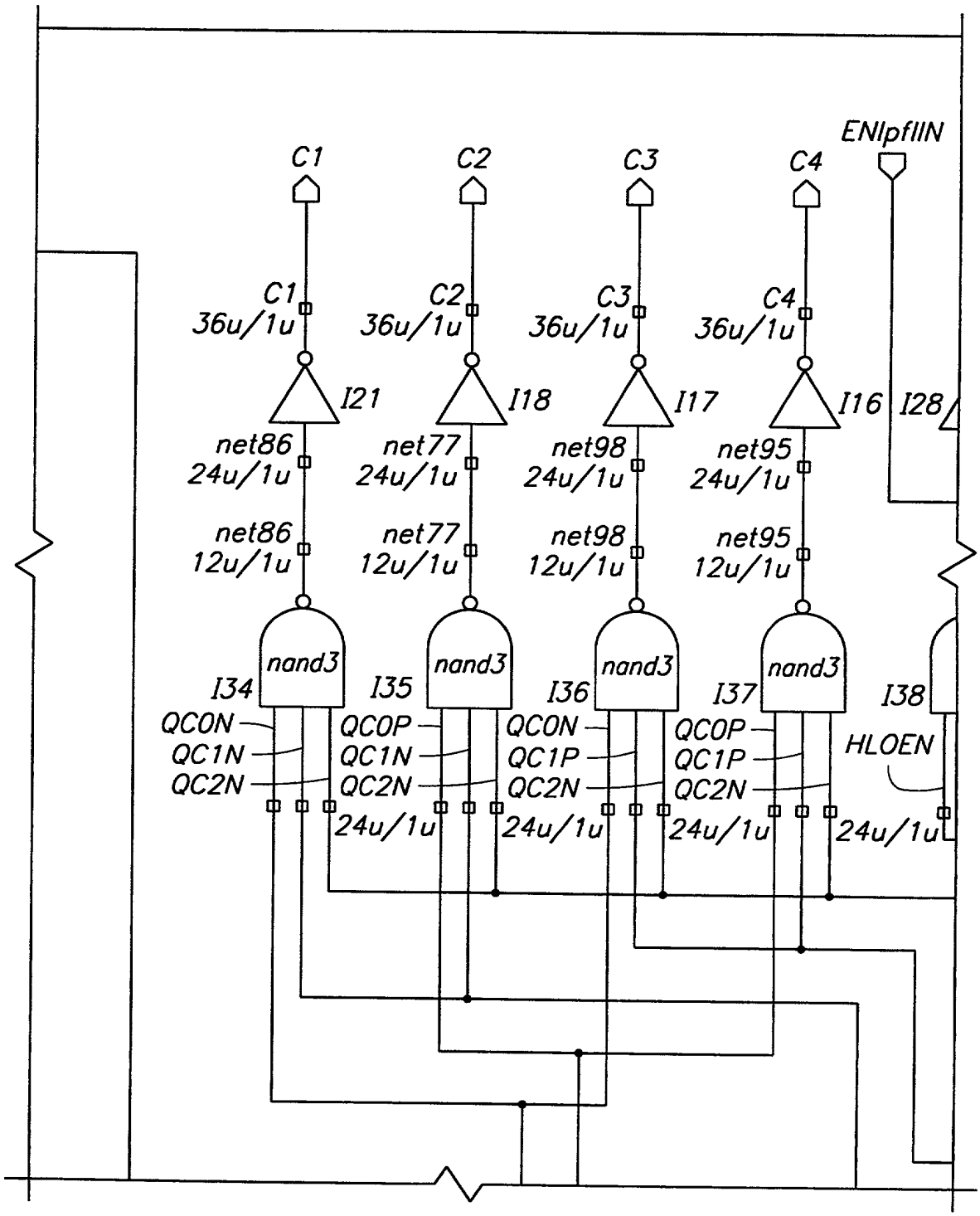

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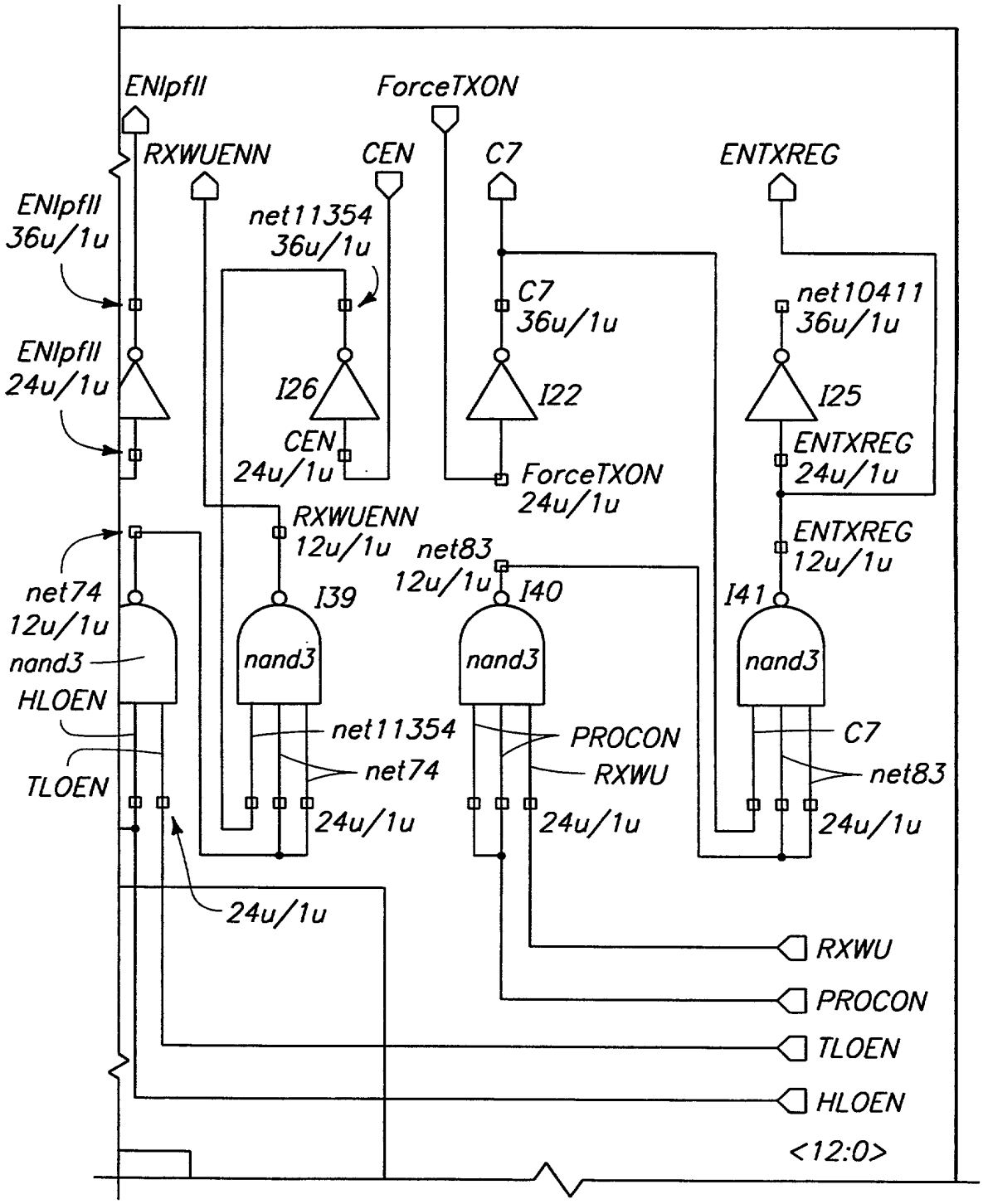

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CEN
C7
ENTXREG
ENIpfII
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net11354
36u/1u
C7
36u/1u
net10411
36u/1u
ENIpfII
24u/1u
I26
I22
I25
CEN
24u/1u
ForceTXON
24u/1u
ENTXREG
24u/1u
RXWUENN
12u/1u
net83
12u/1u
ENTXREG
12u/1u
net74
12u/1u
I39
I40
I41
nand3
nand3
nand3
nand3
HLOEN
net11354
PROCON
C7
TLOEN
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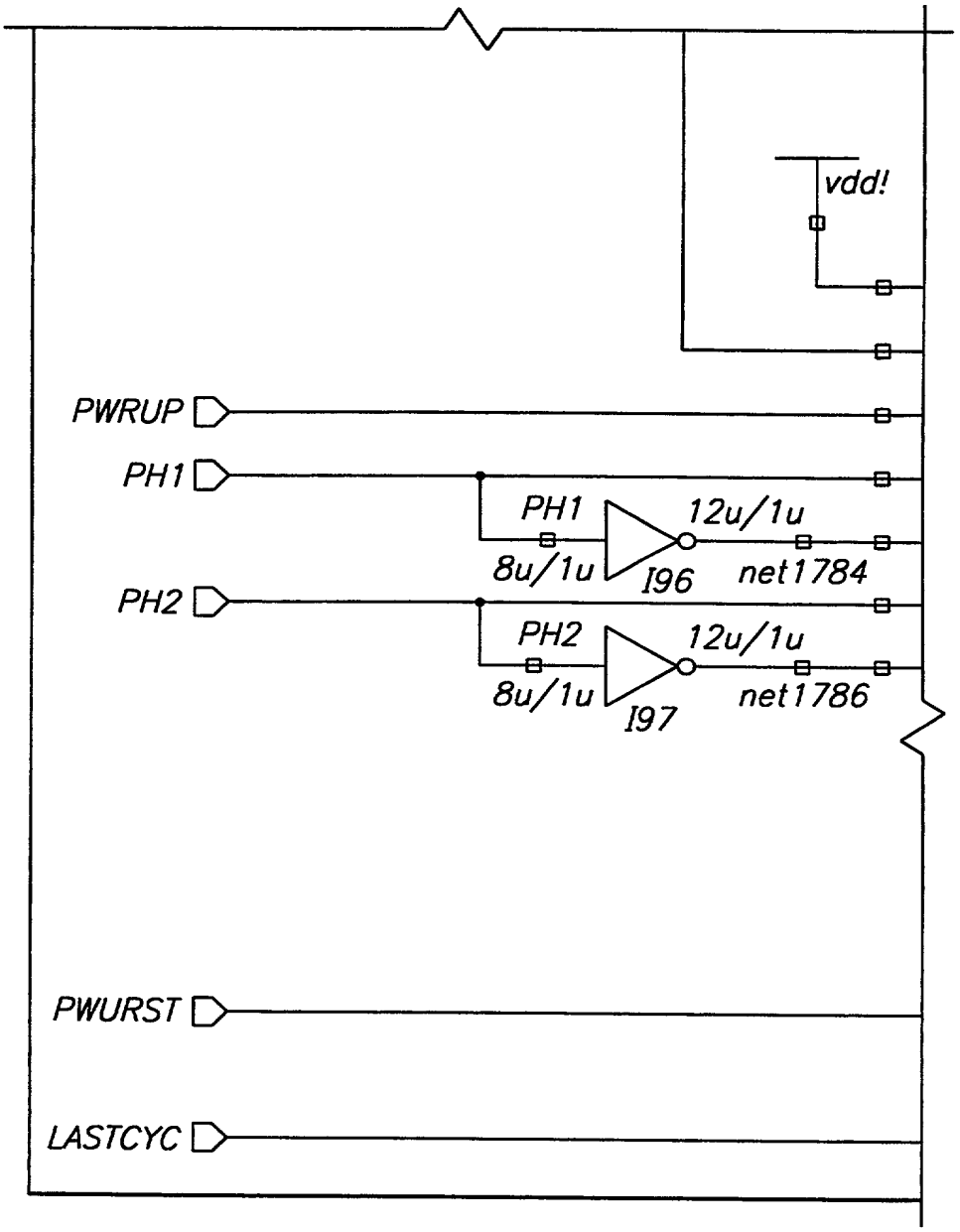


Fig 1.0103BA

5962-9563501

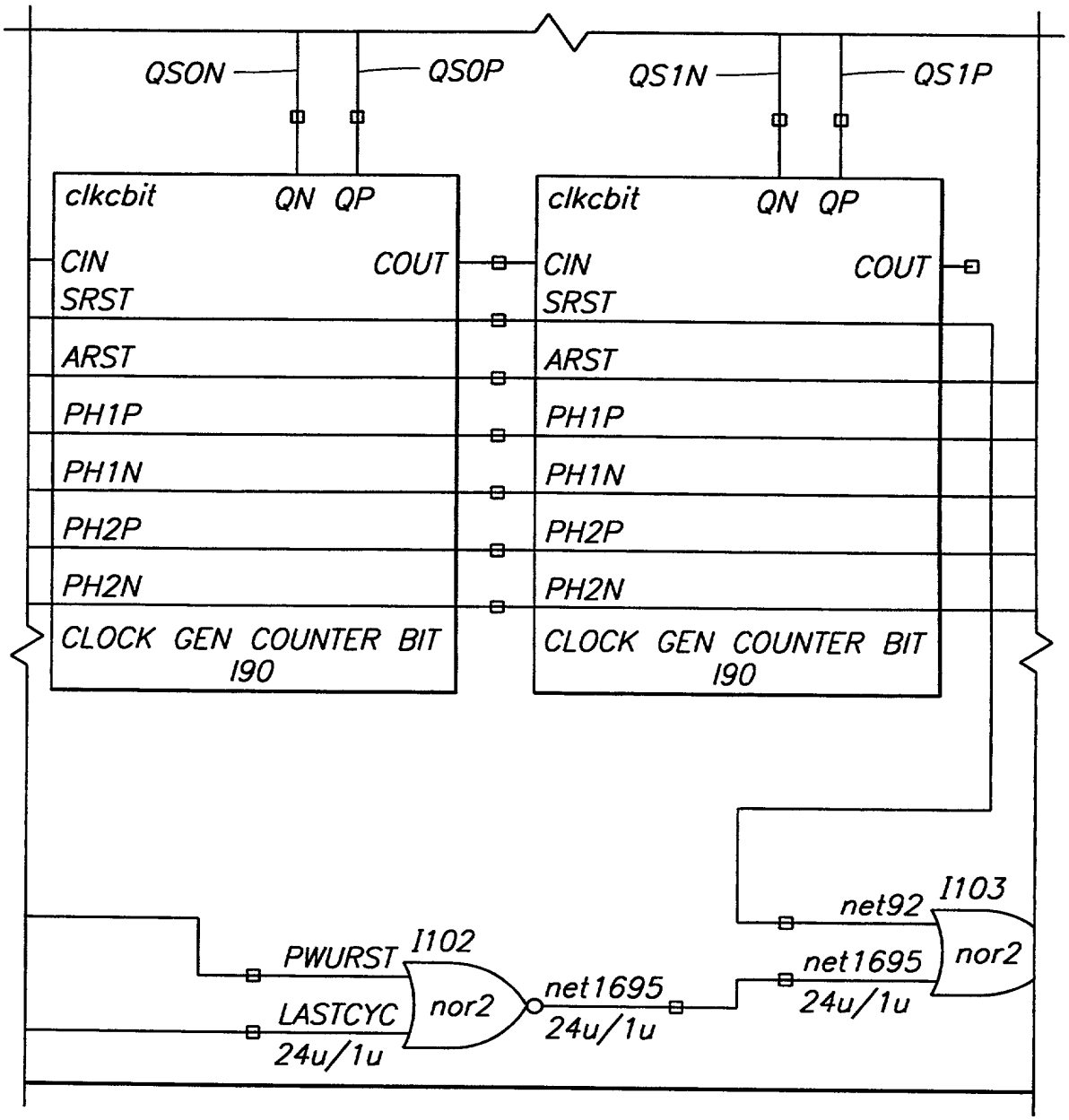


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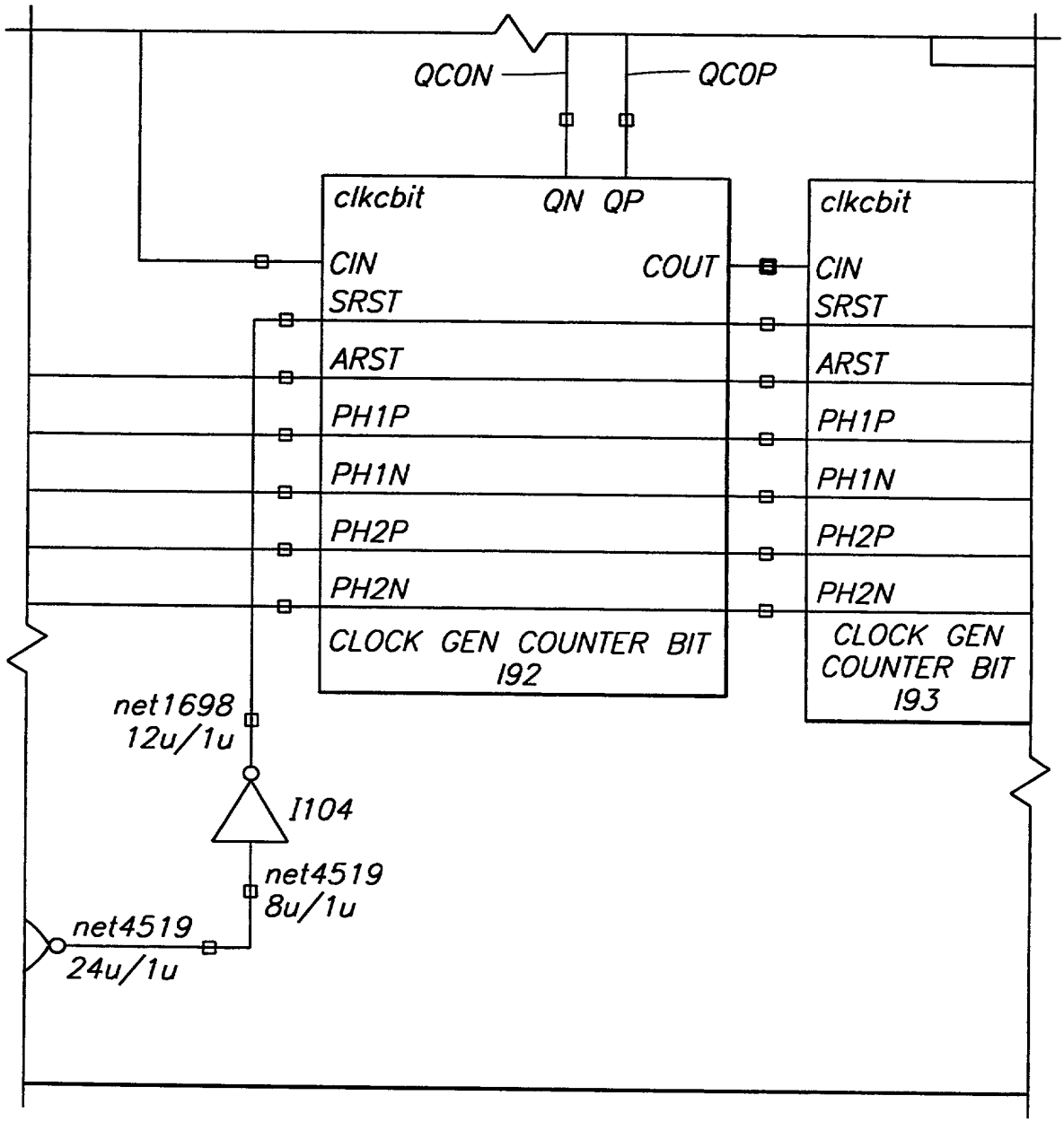

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COUT
SRST
ARST
PH1P
PH1N
PH2P
PH2N
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I92
clkcbit
CIN
SRST
ARST
PH1P
PH1N
PH2P
PH2N
CLOCK GEN
COUNTER BIT
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Fig 7.0103BC

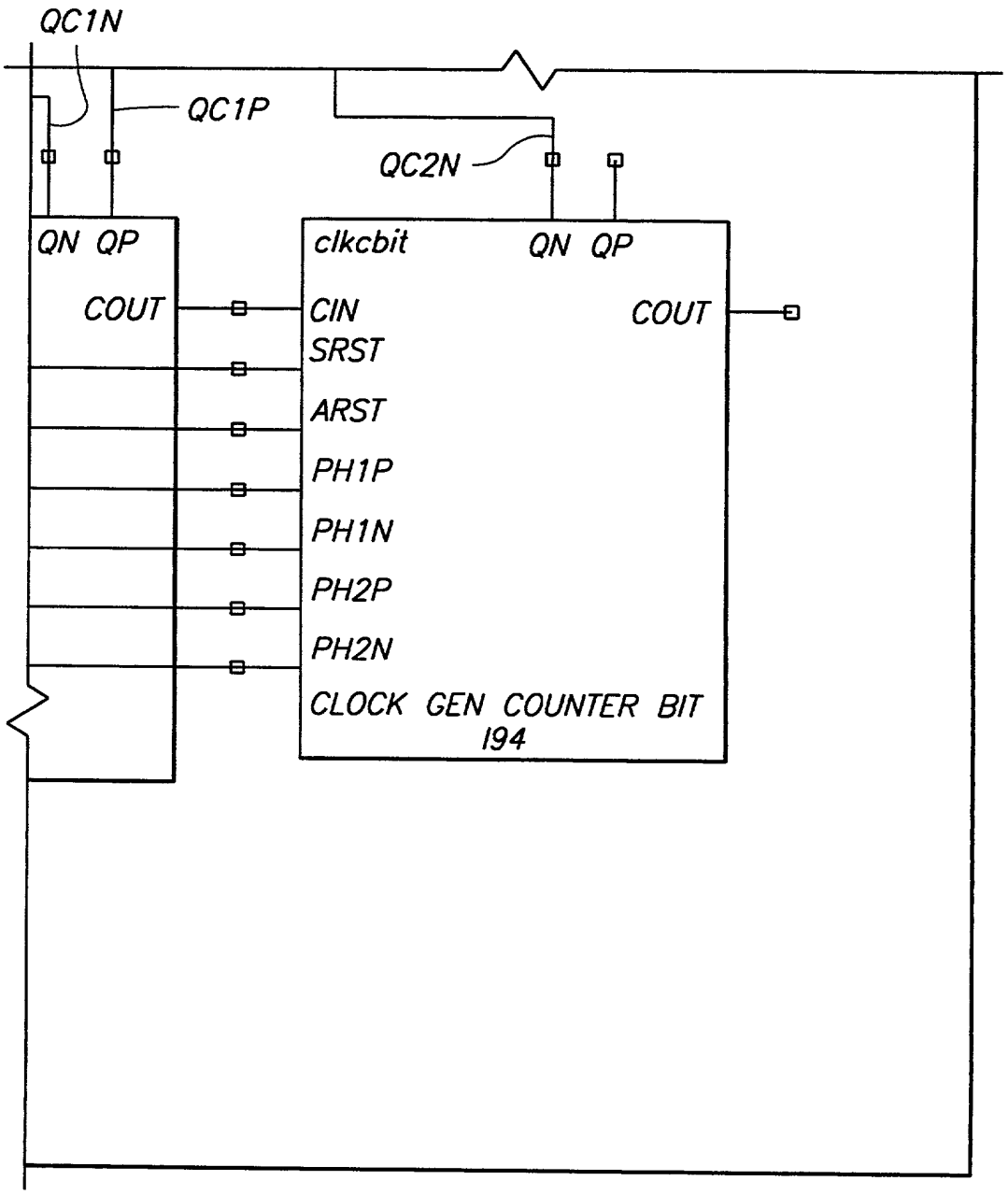

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ARST
PH1P
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PH2P
PH2N
CLOCK GEN COUNTER BIT
194

Fig 1.0103BD

ENCLOSURE 2 PAGE 184 OF 3273

7.010301AB	7.010301BB
7.010301AA	7.010301BA

TOMOTOM.IL

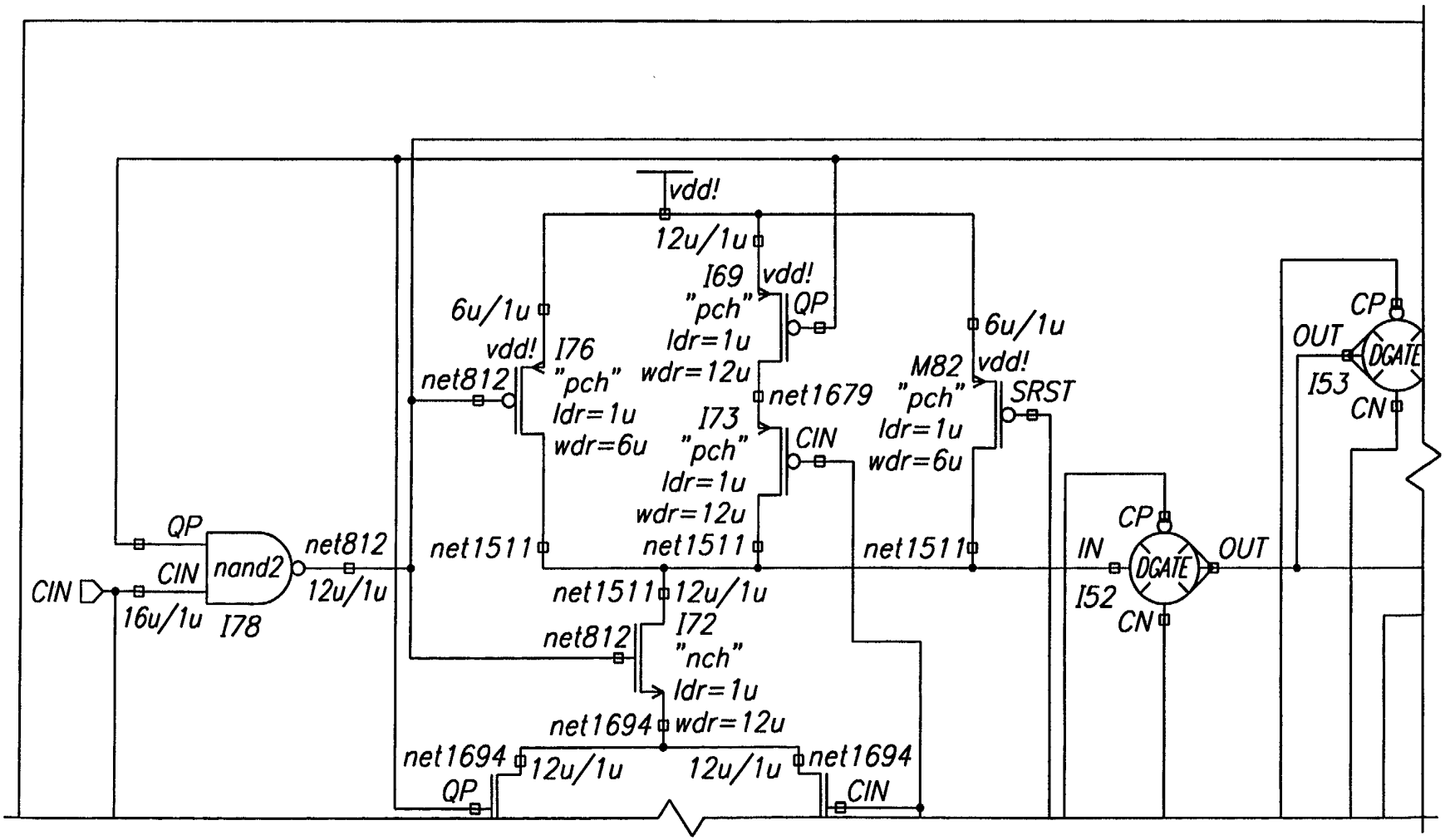


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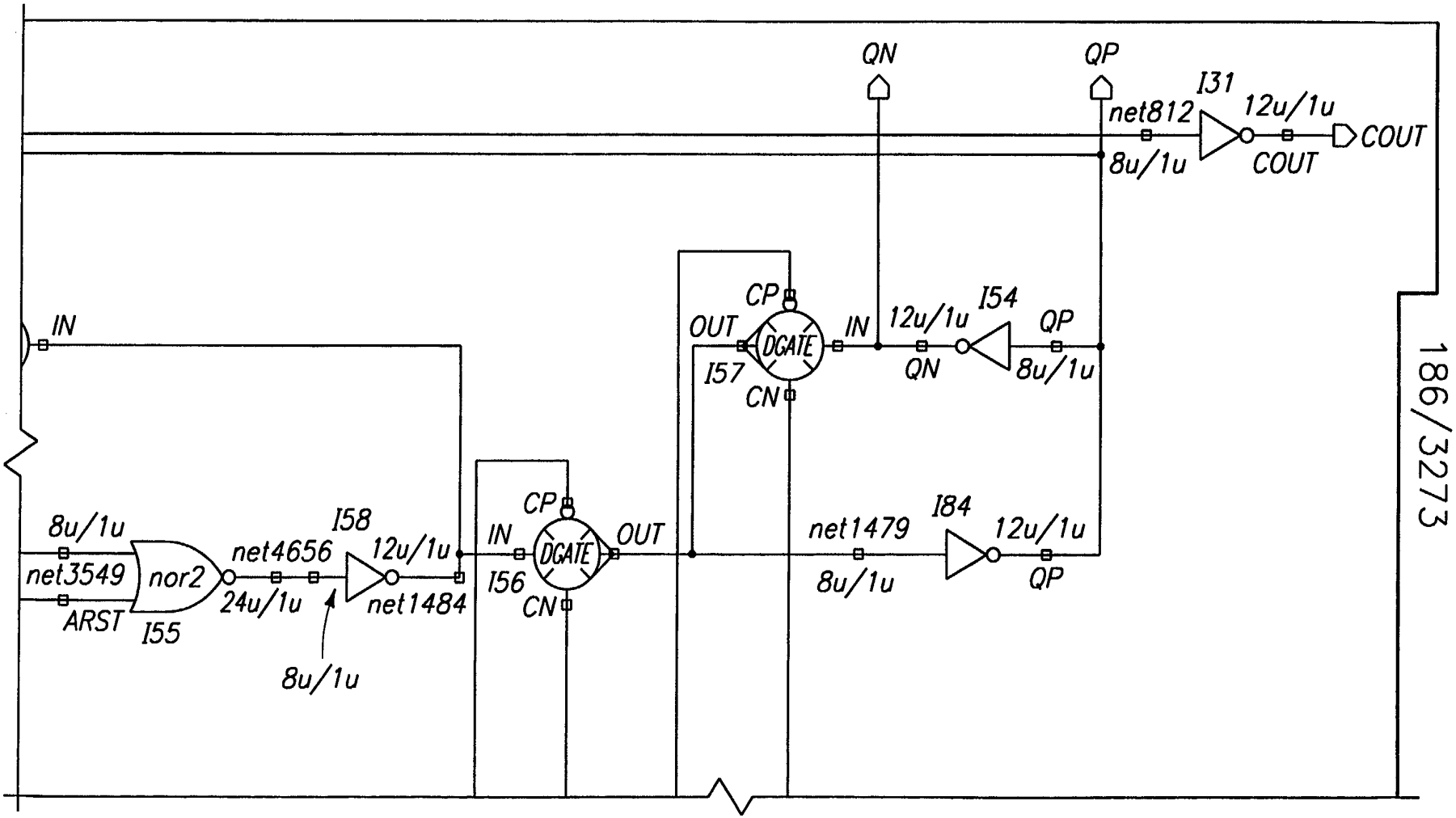


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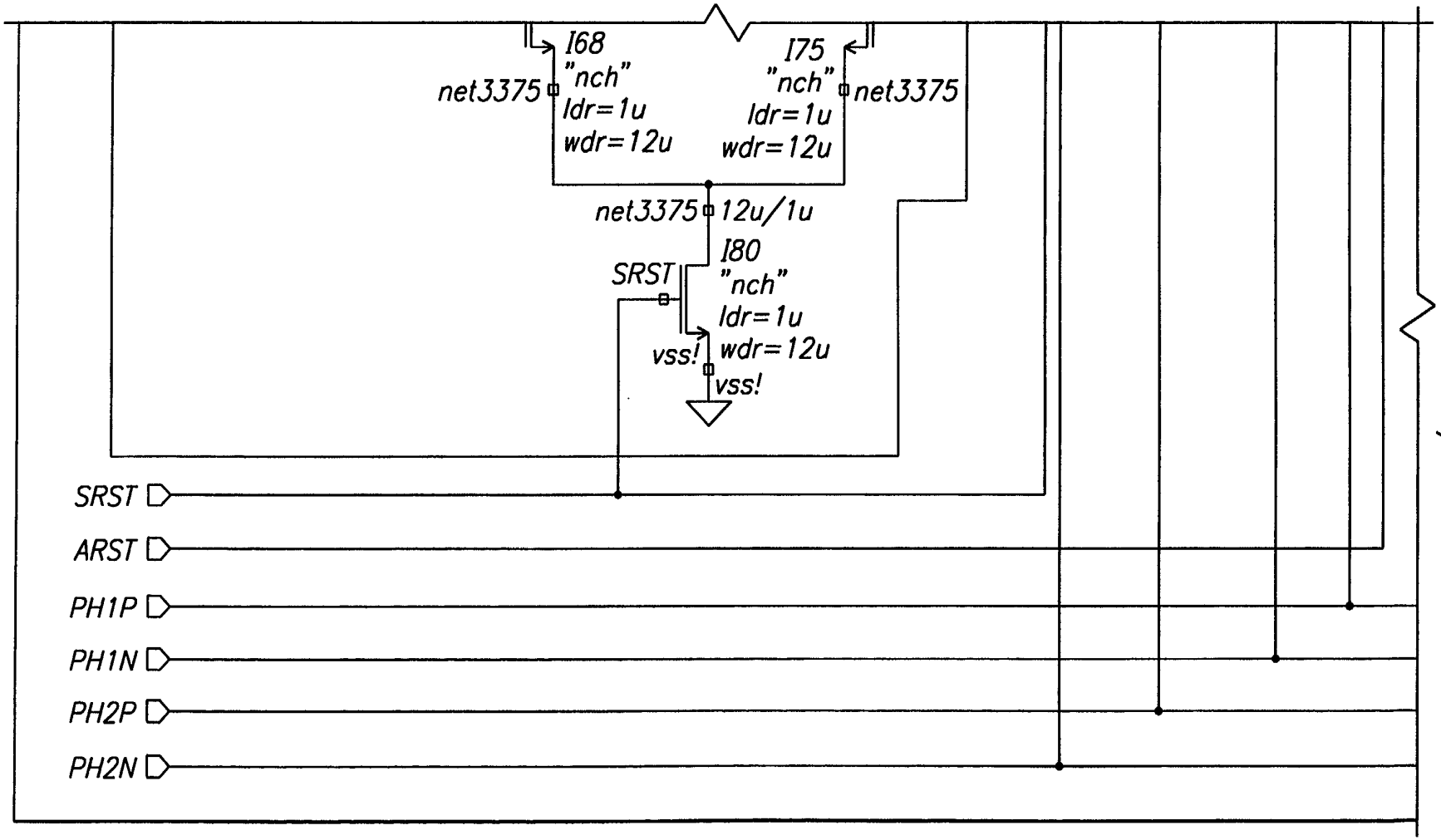


Fig 1.0010300 1BA

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TDTI9D" E9D23B6D

7.02AA	7.02AB	7.02AC	7.02AD	7.02AE	7.02AF
7.02BA	7.02BB	7.02BC	7.02BD	7.02BE	7.02BF

Фиг 7.02

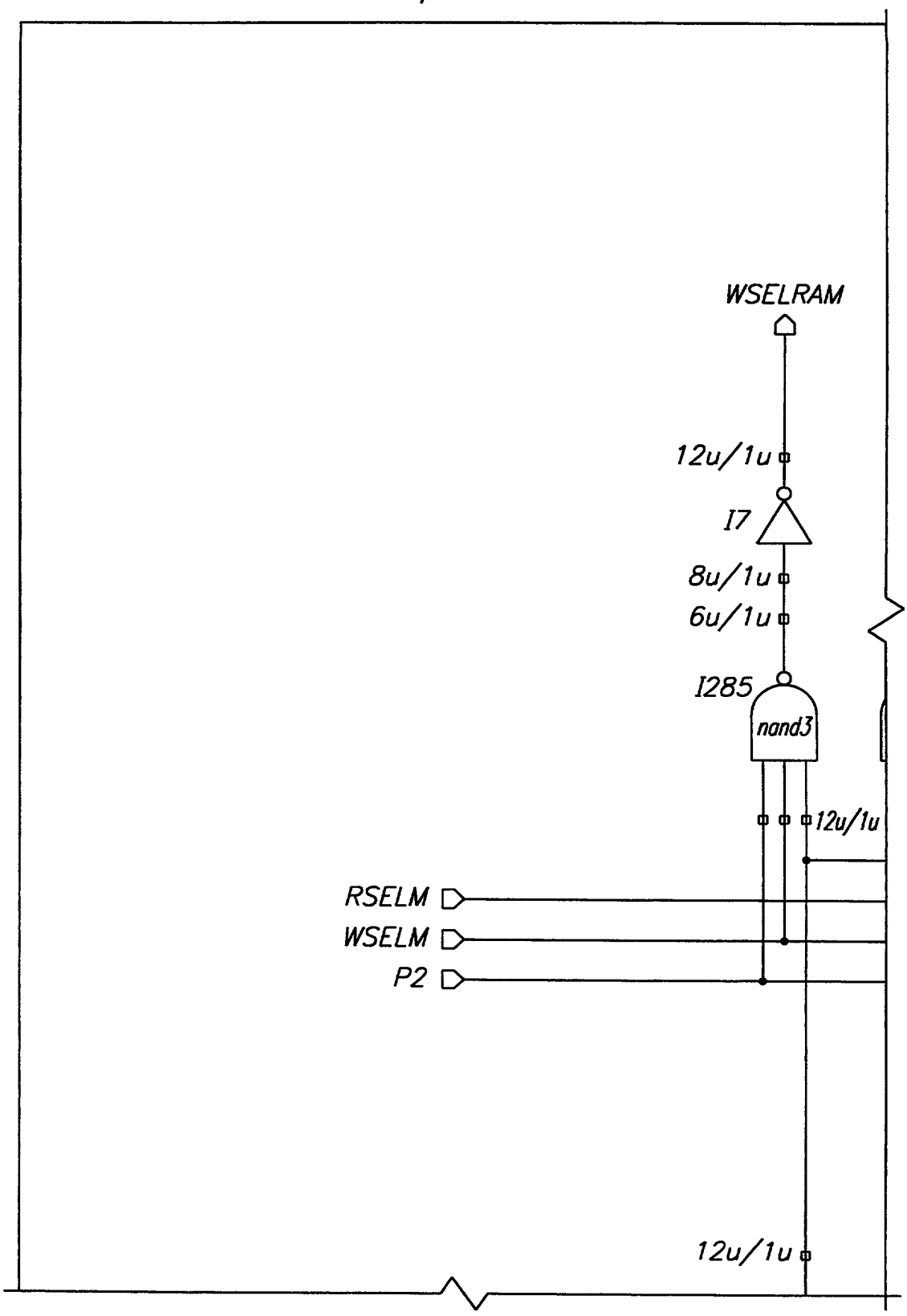


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P0342950-050295

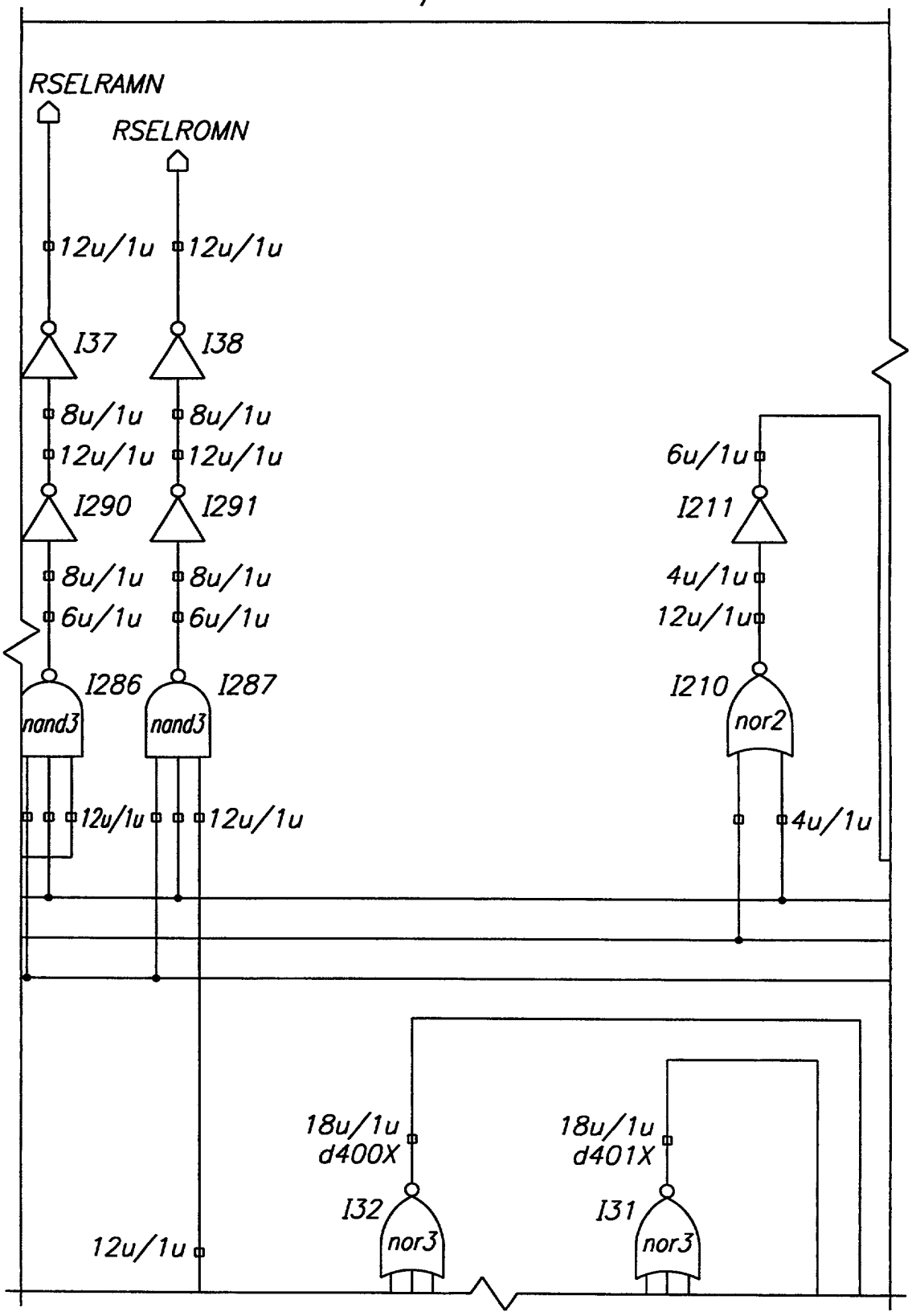

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Fig 1.02AB

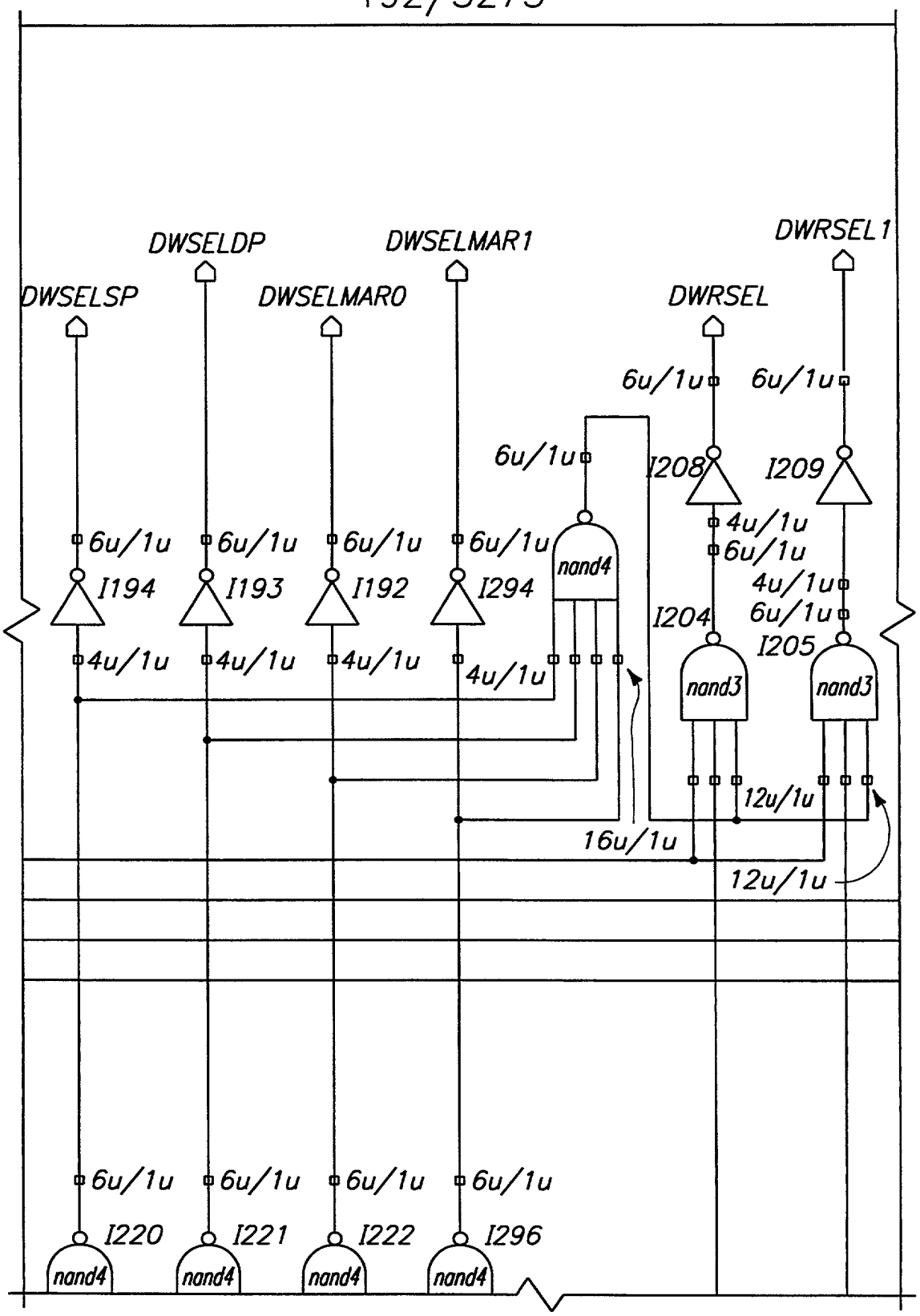

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I204
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I205
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Fig 1.02AC

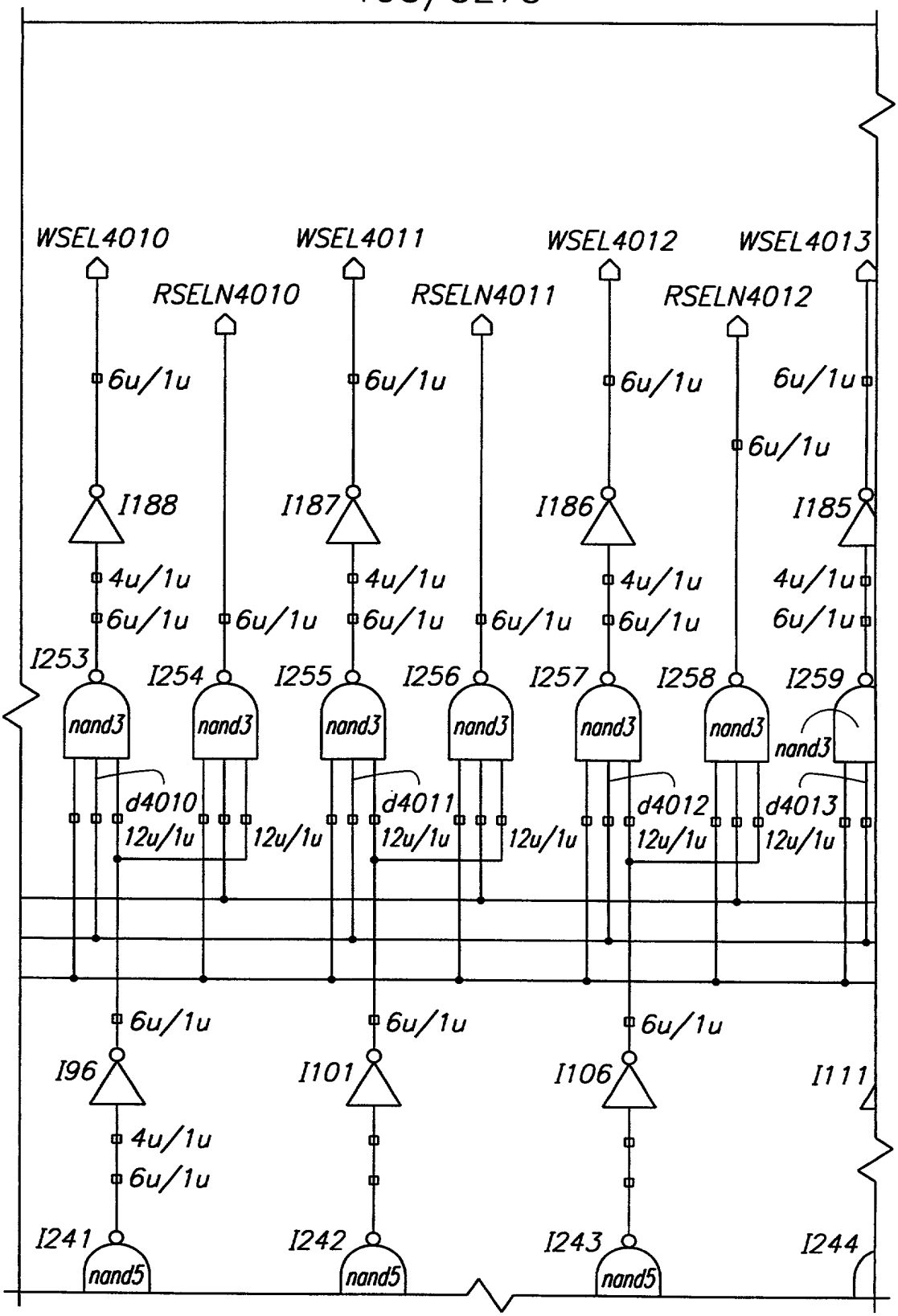

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I257
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I259
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Fig 1.02AD

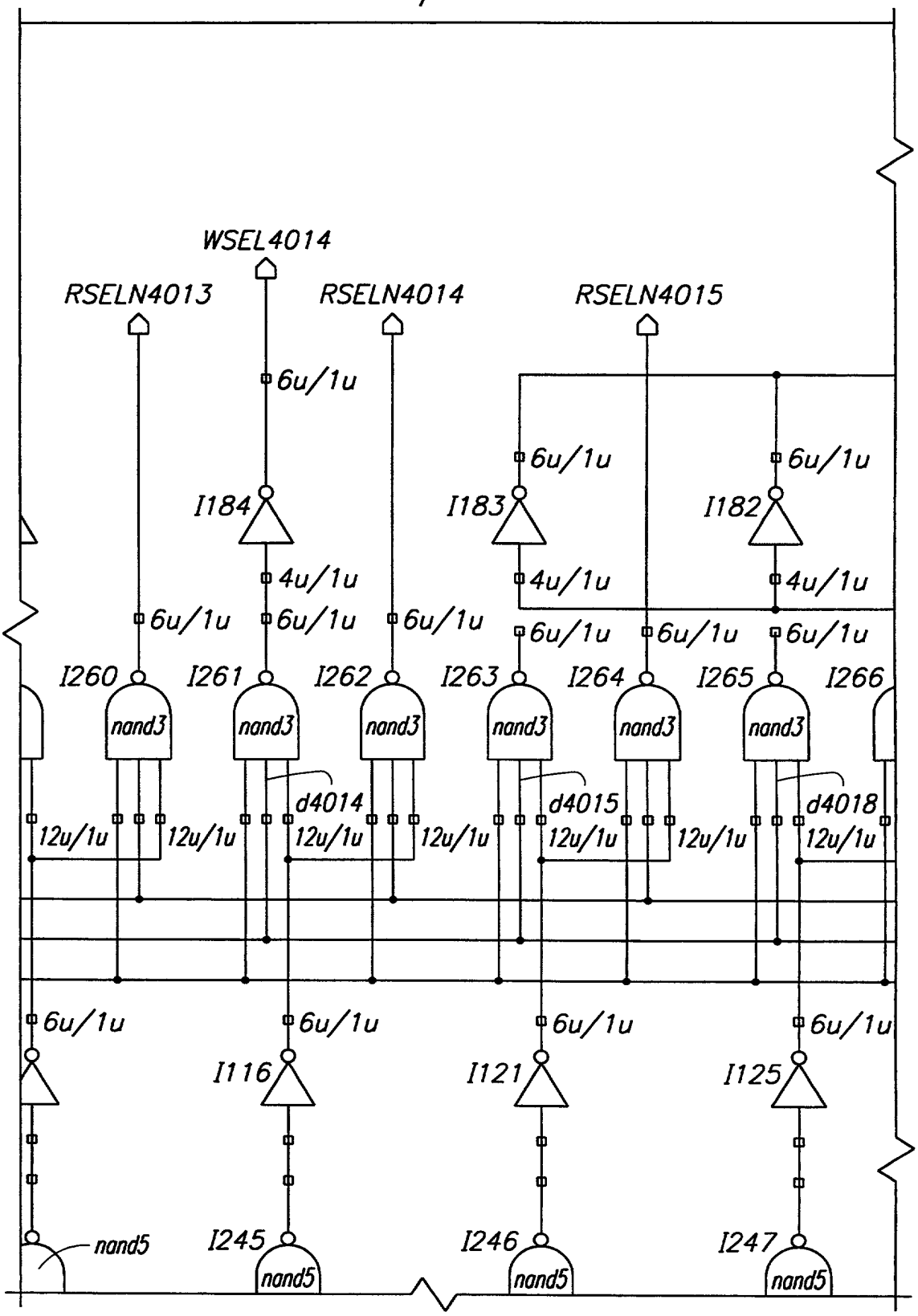

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Fig 1.02AE

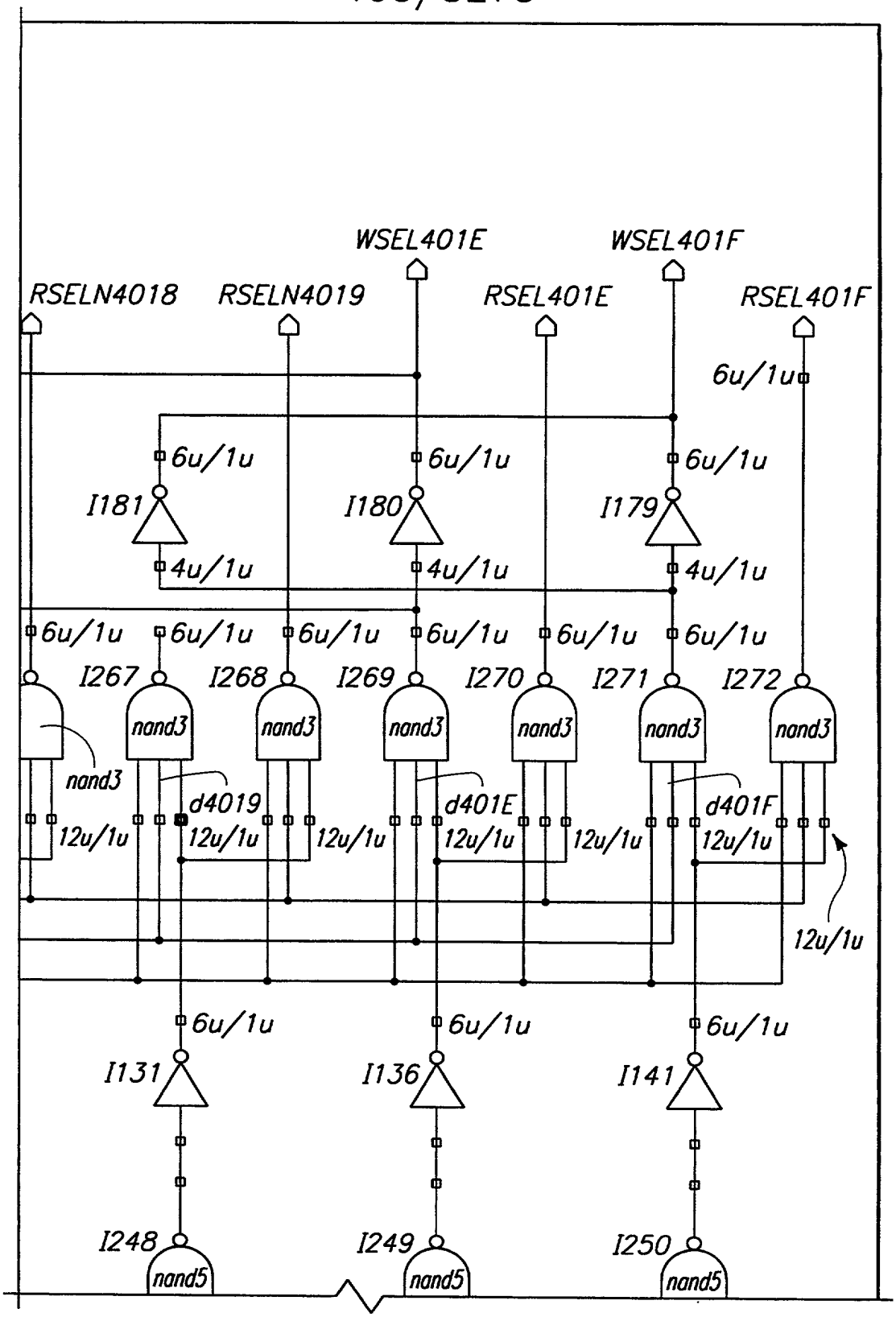

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Fig 1 02AF

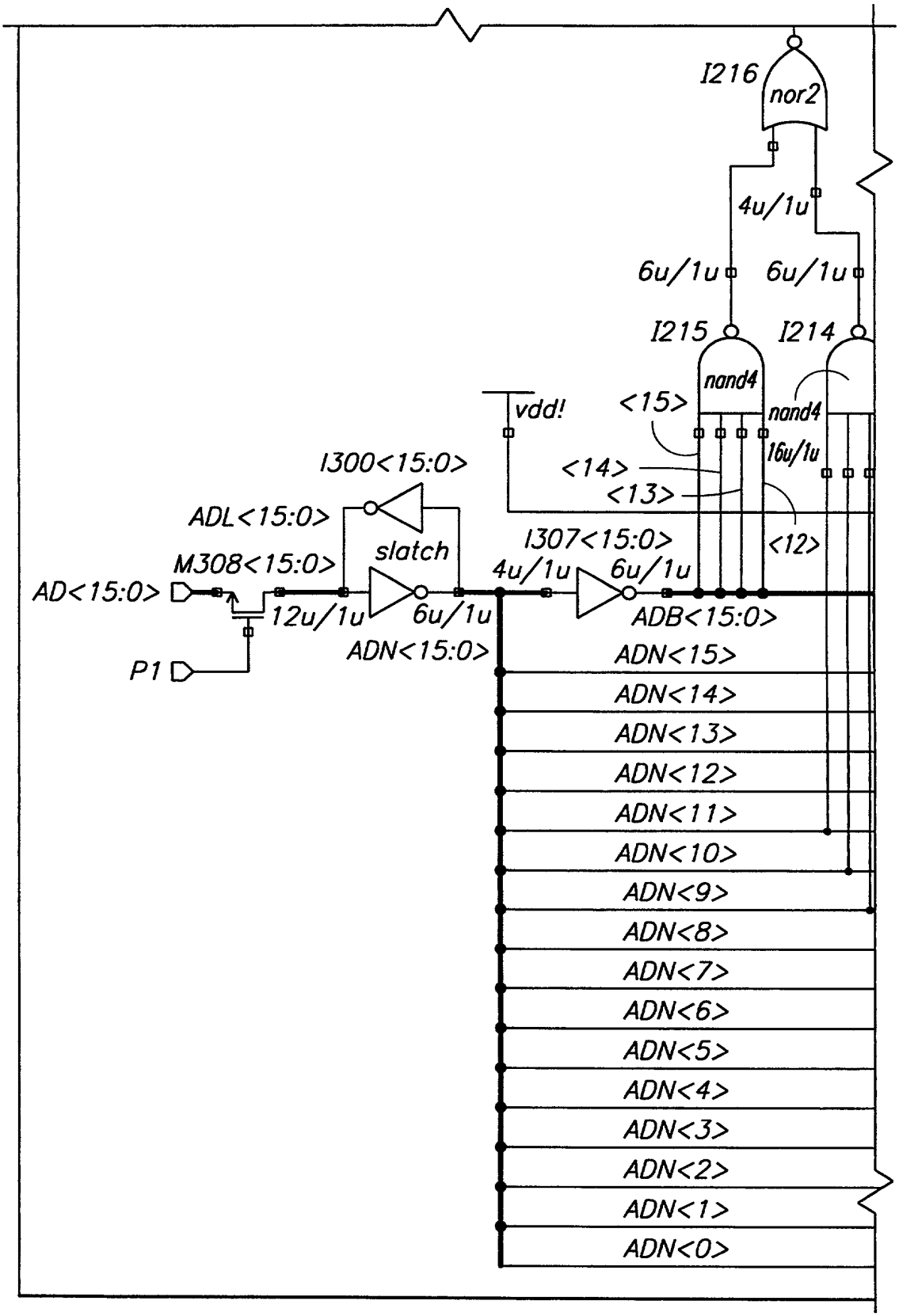

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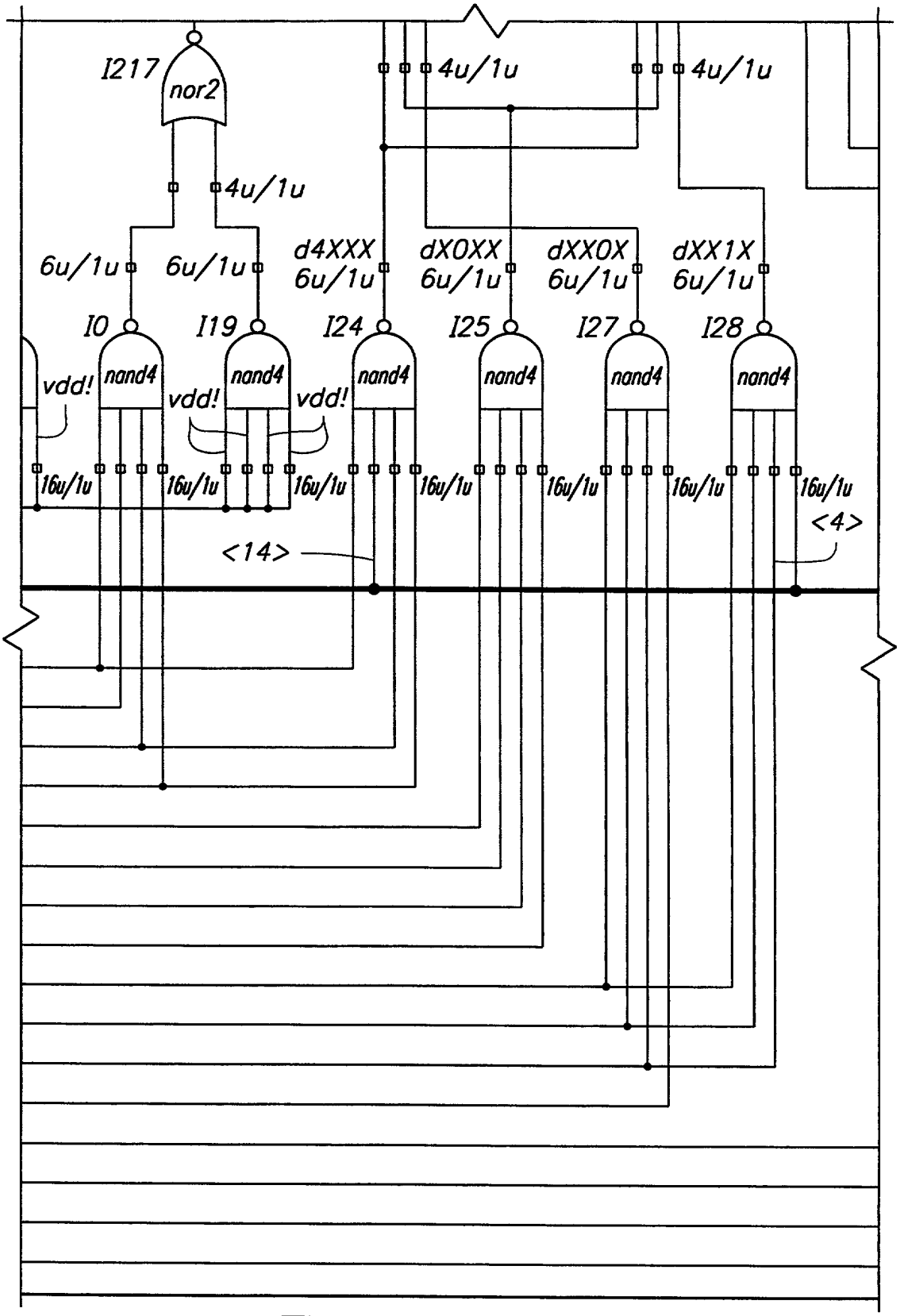
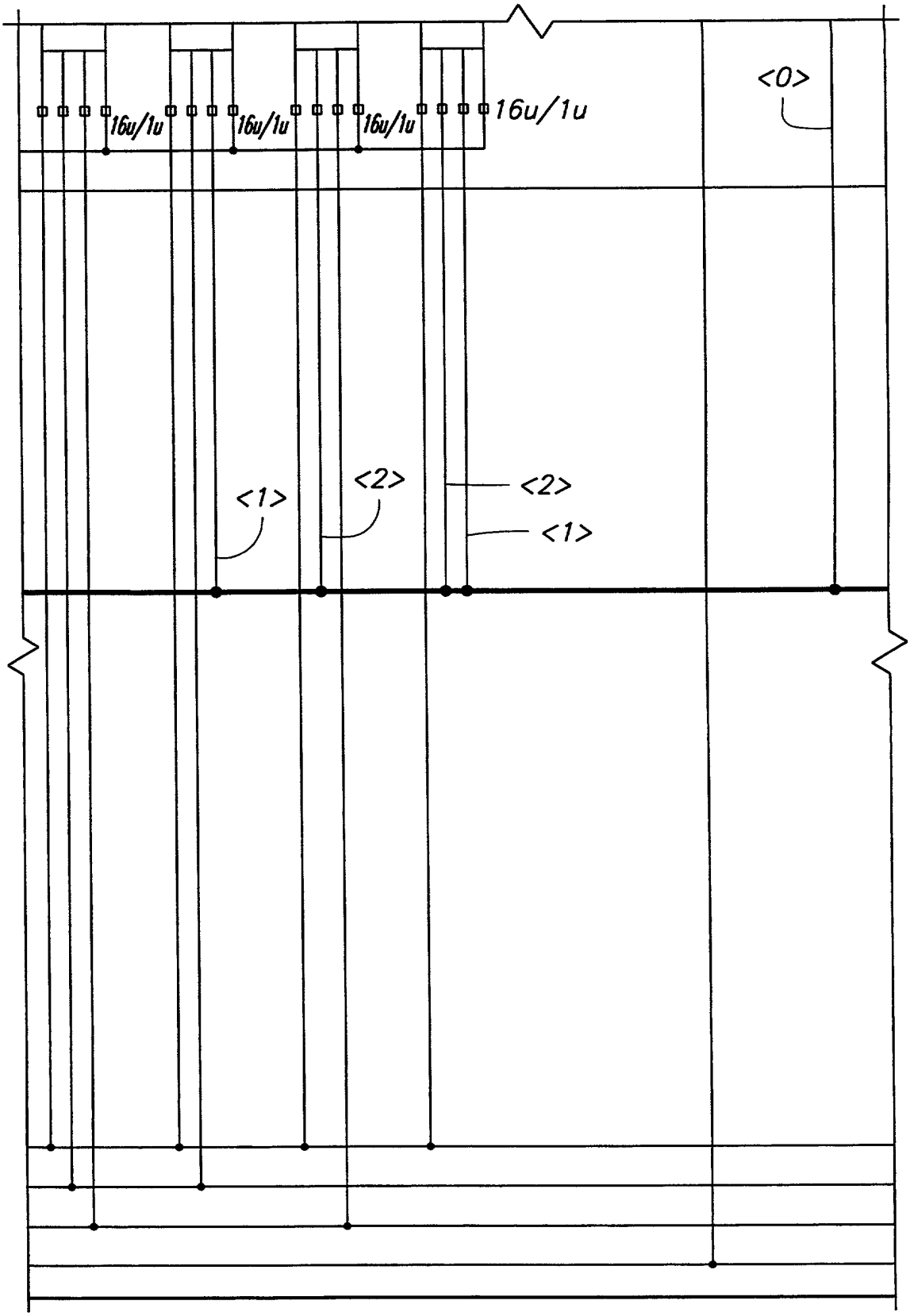

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Fig 1.02BB



Фиг 1.02BC

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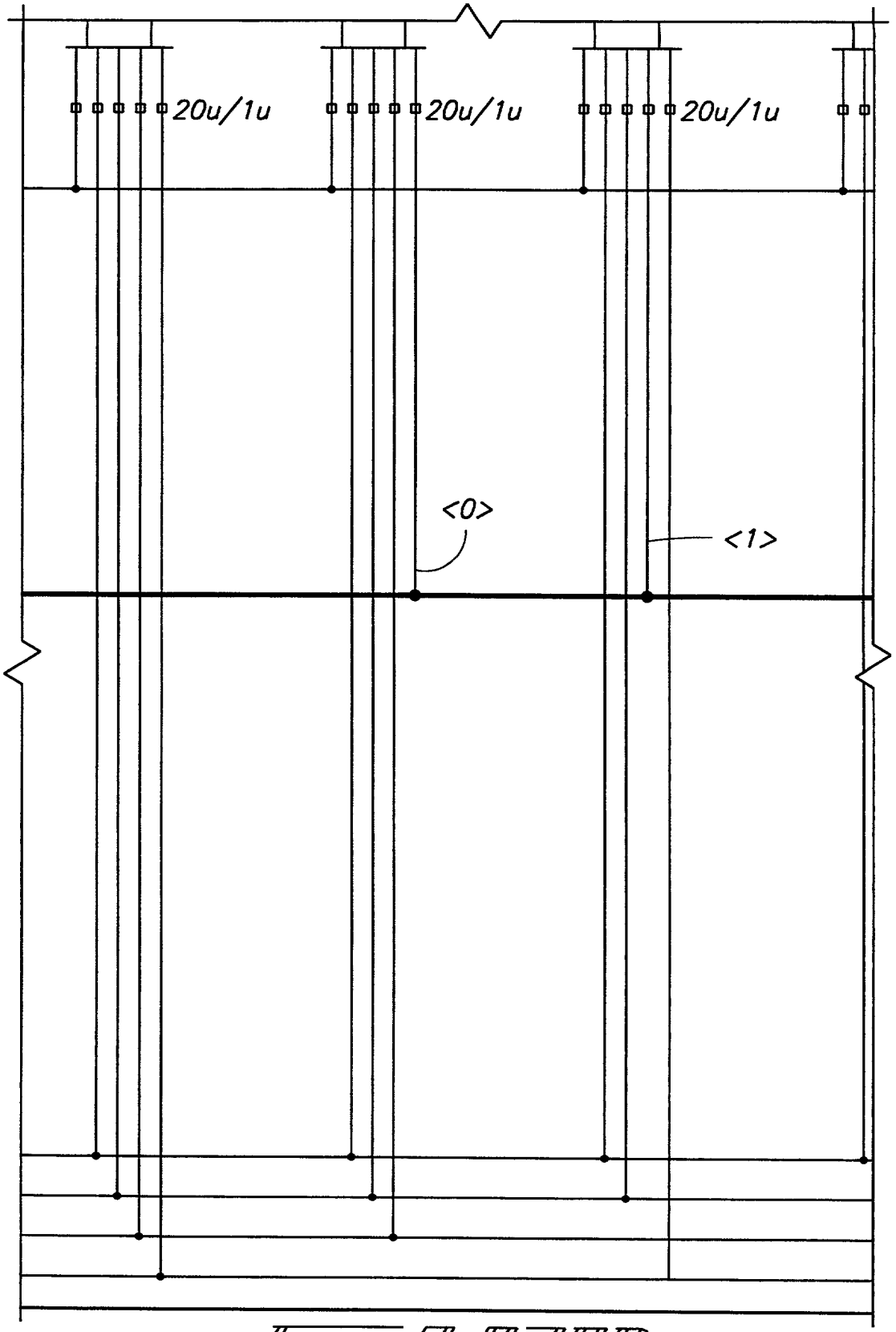


Fig 1.02BD

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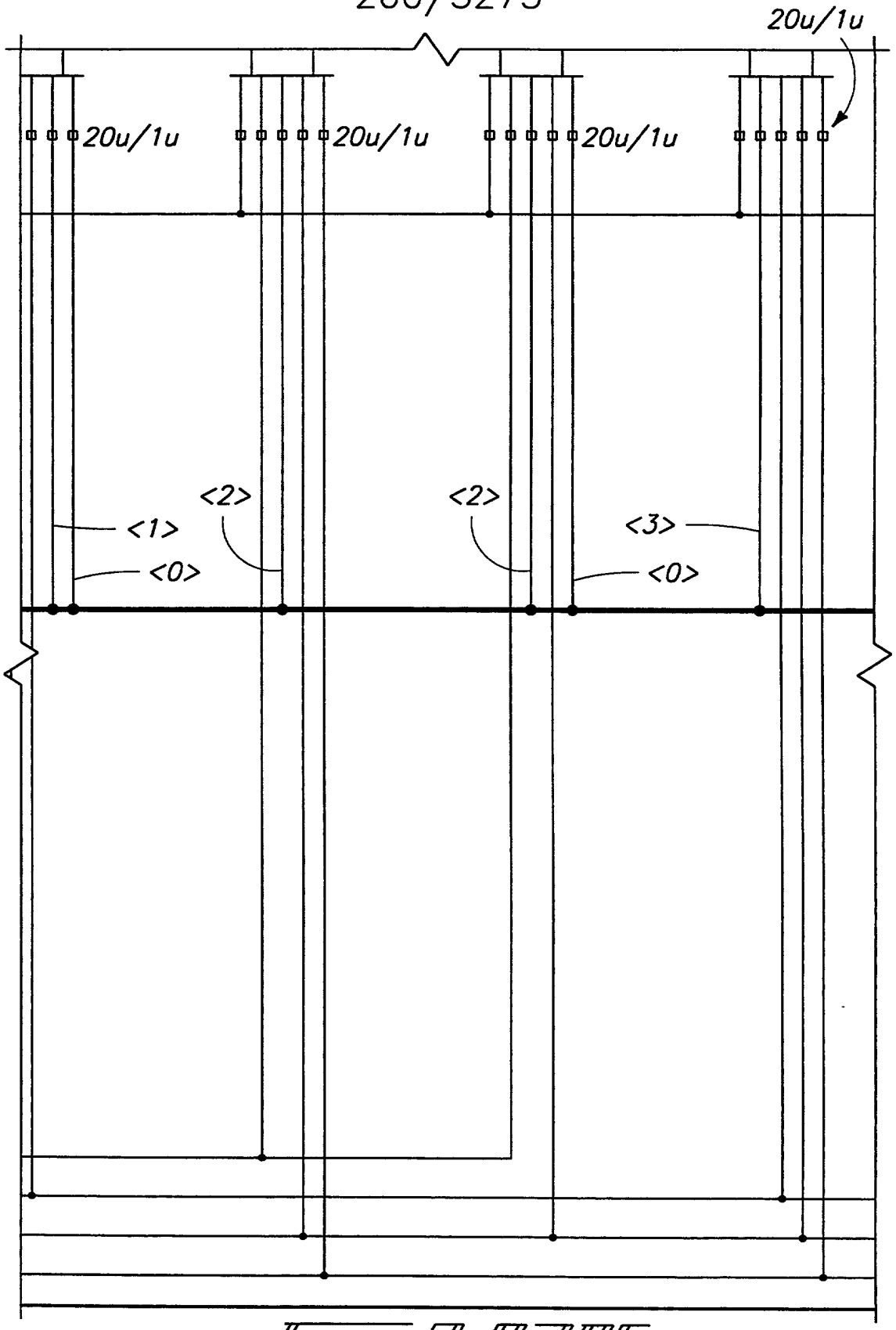
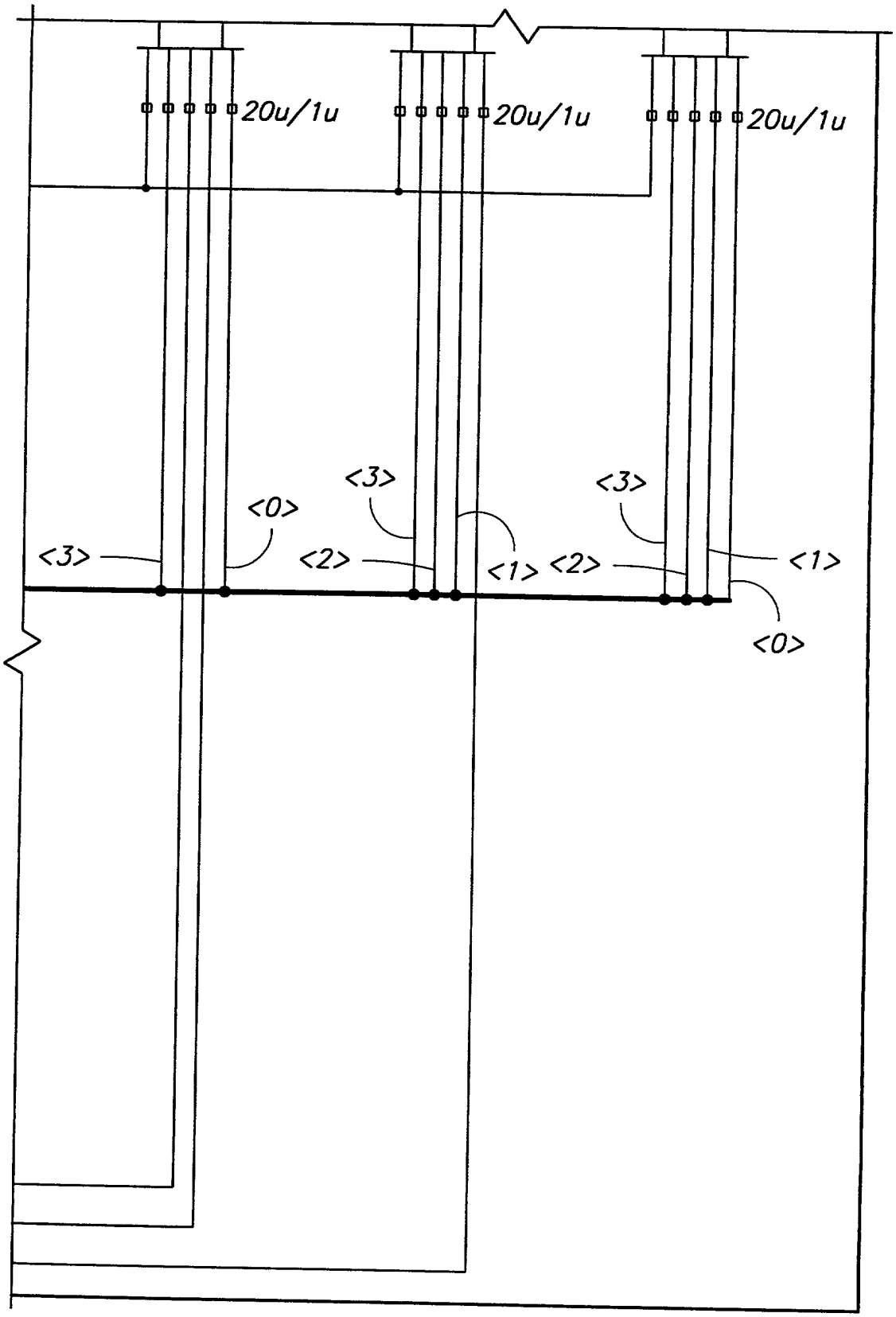


Fig 3.02BE

Printed - 05/11/2004

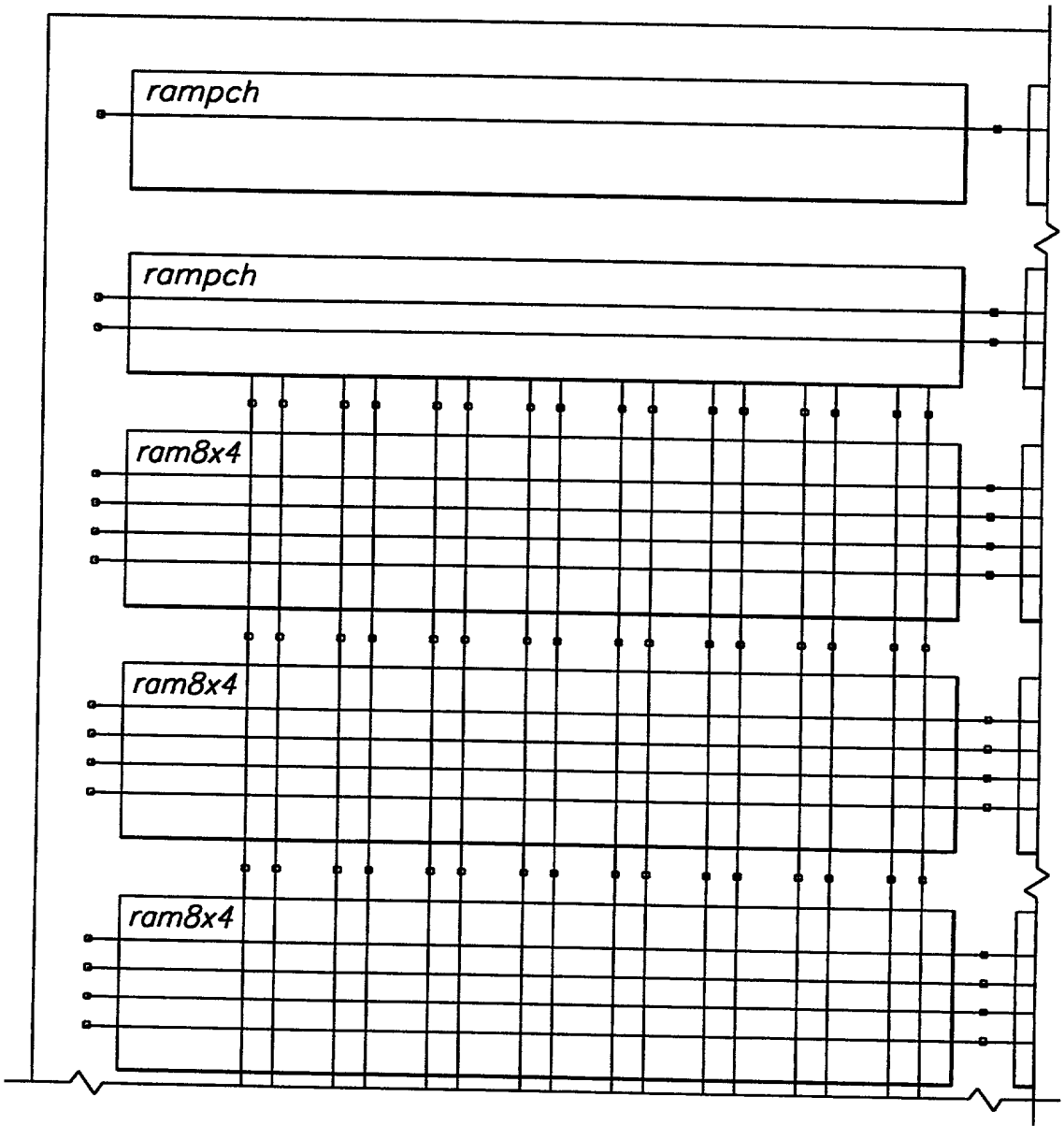


Фиг 1.02BF

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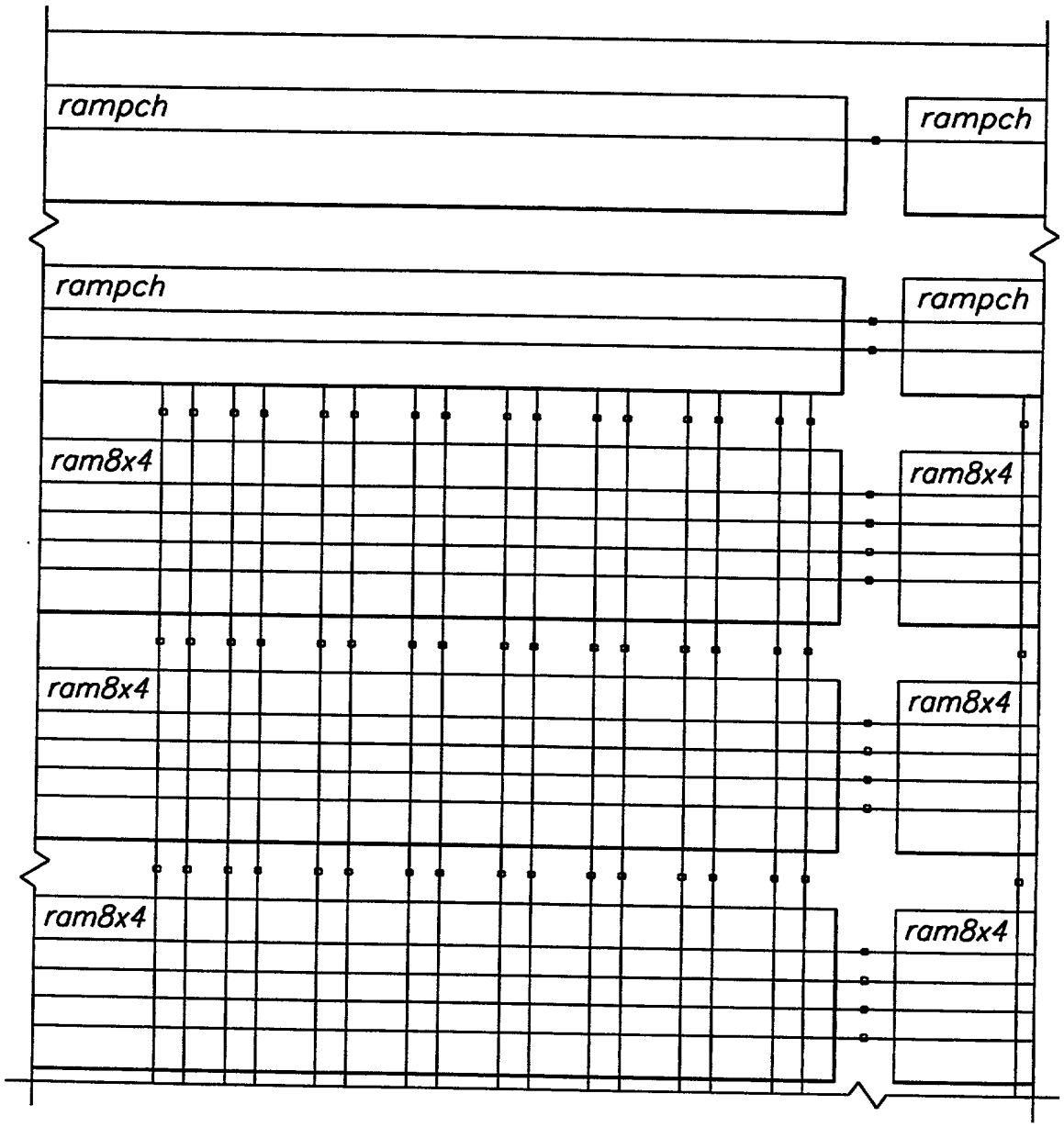
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7.03CA	7.03CB	7.03CC	7.03CD	7.03CE	7.03CF	7.03CG	7.03CH
7.03DA	7.03DB	7.03DC	7.03DD	7.03DE	7.03DF	7.03DG	7.03DH
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Fig 7.03

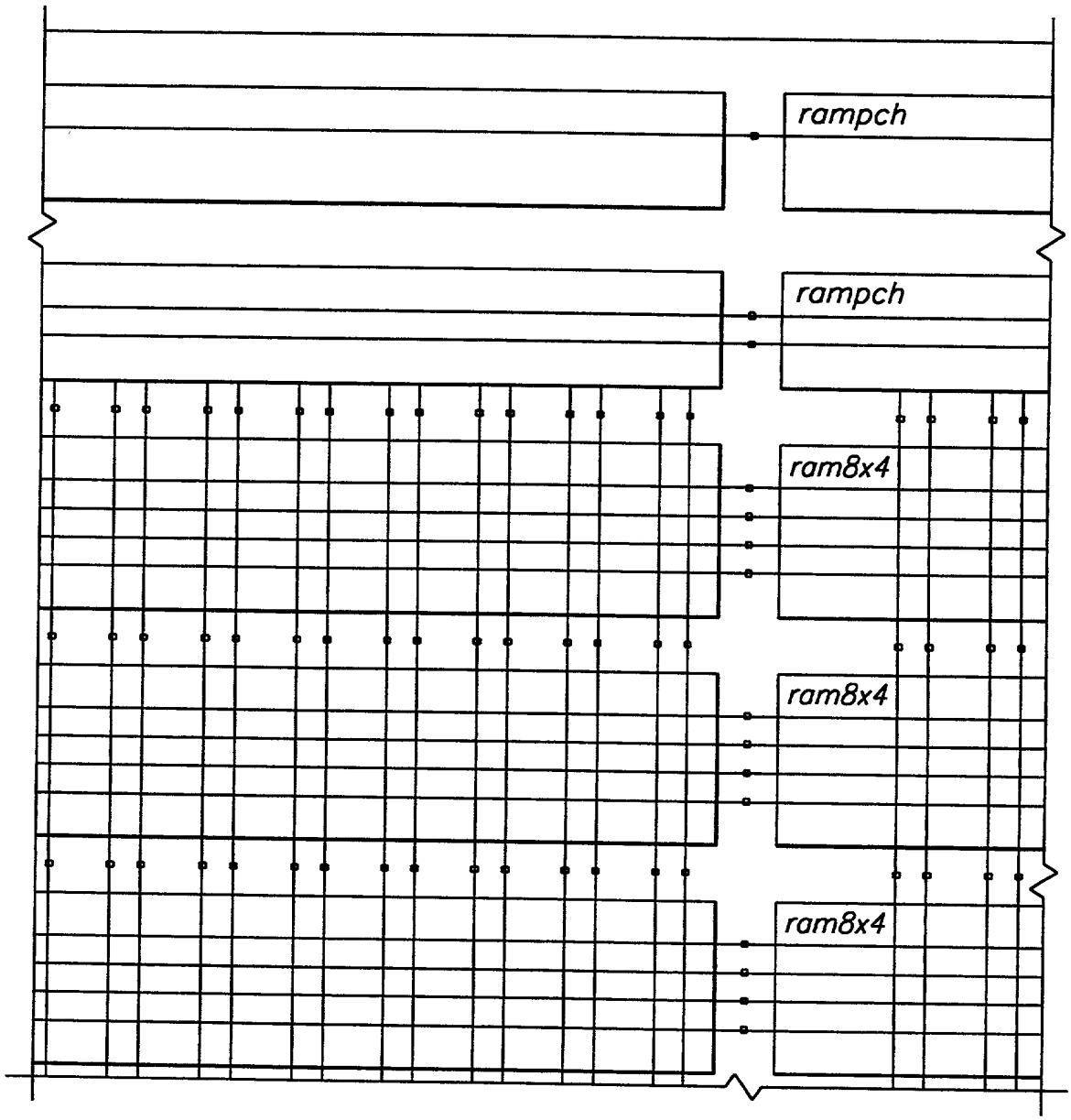


Фиг 1.ПЗИА

0962605 - 05/11/97


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Фиг 1.03АВ



Фиг 1.ОЗАС

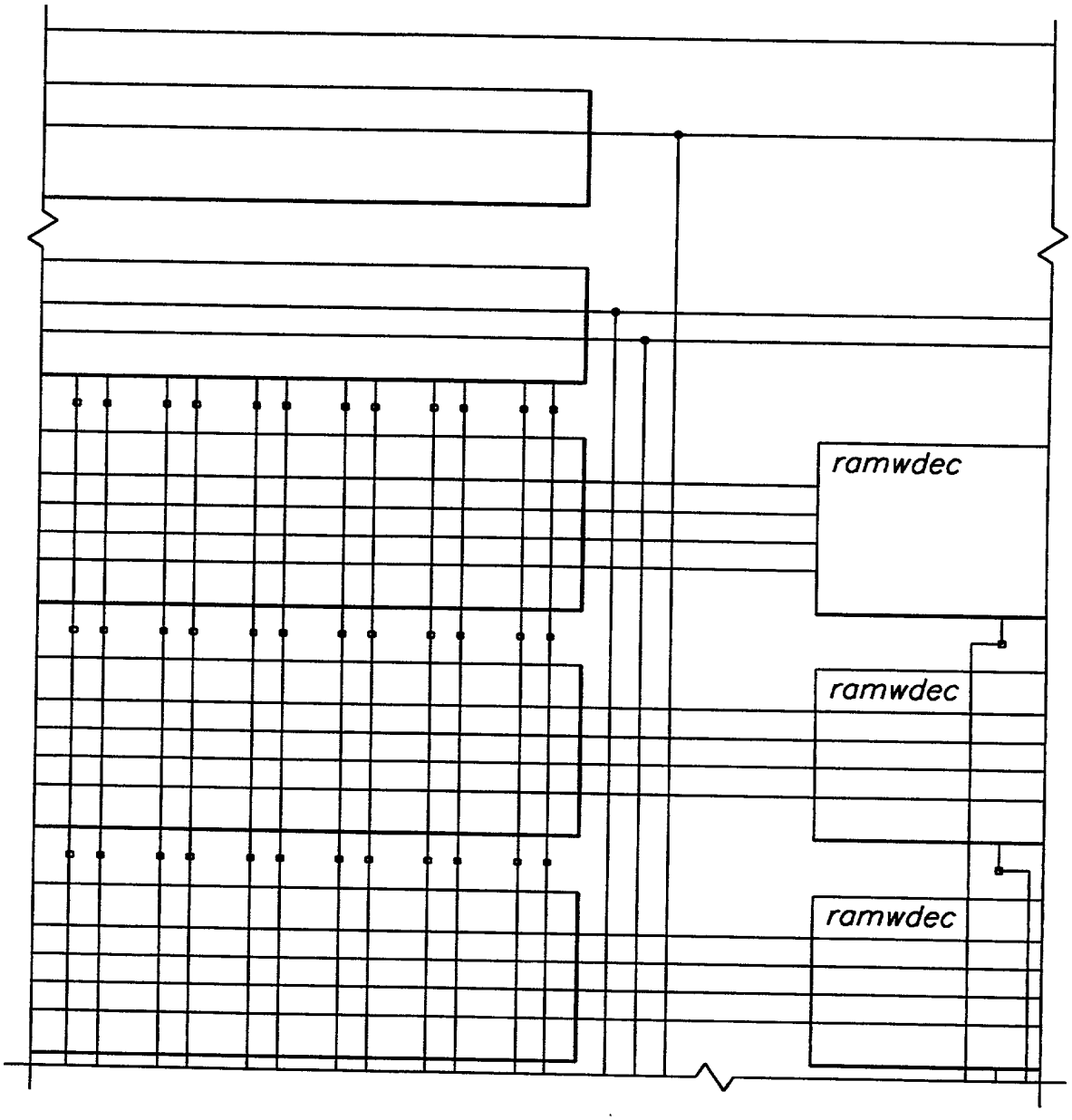


Fig 1.03AD

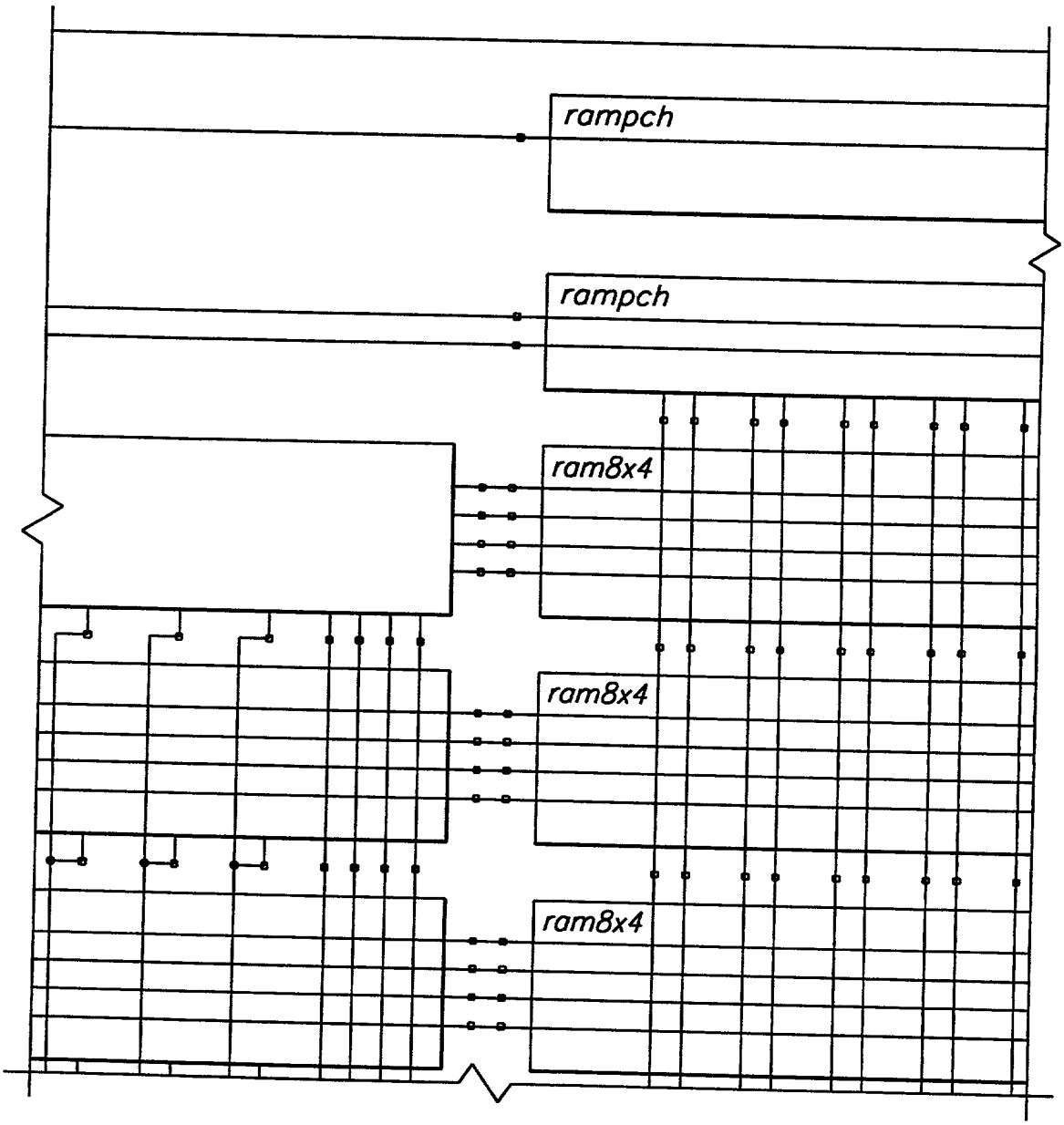


Fig 1.03AE

EP 0 372 293 A2

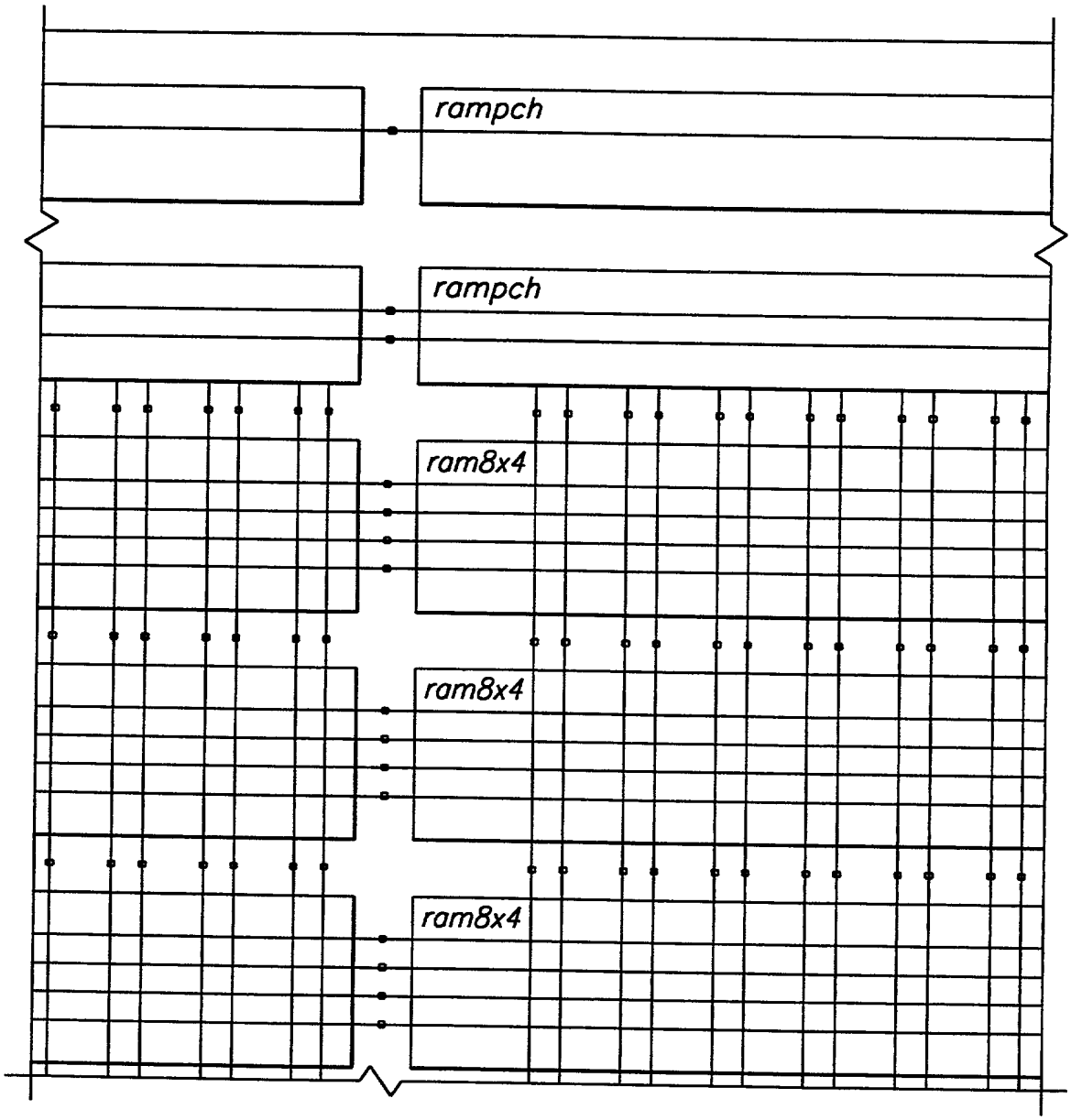
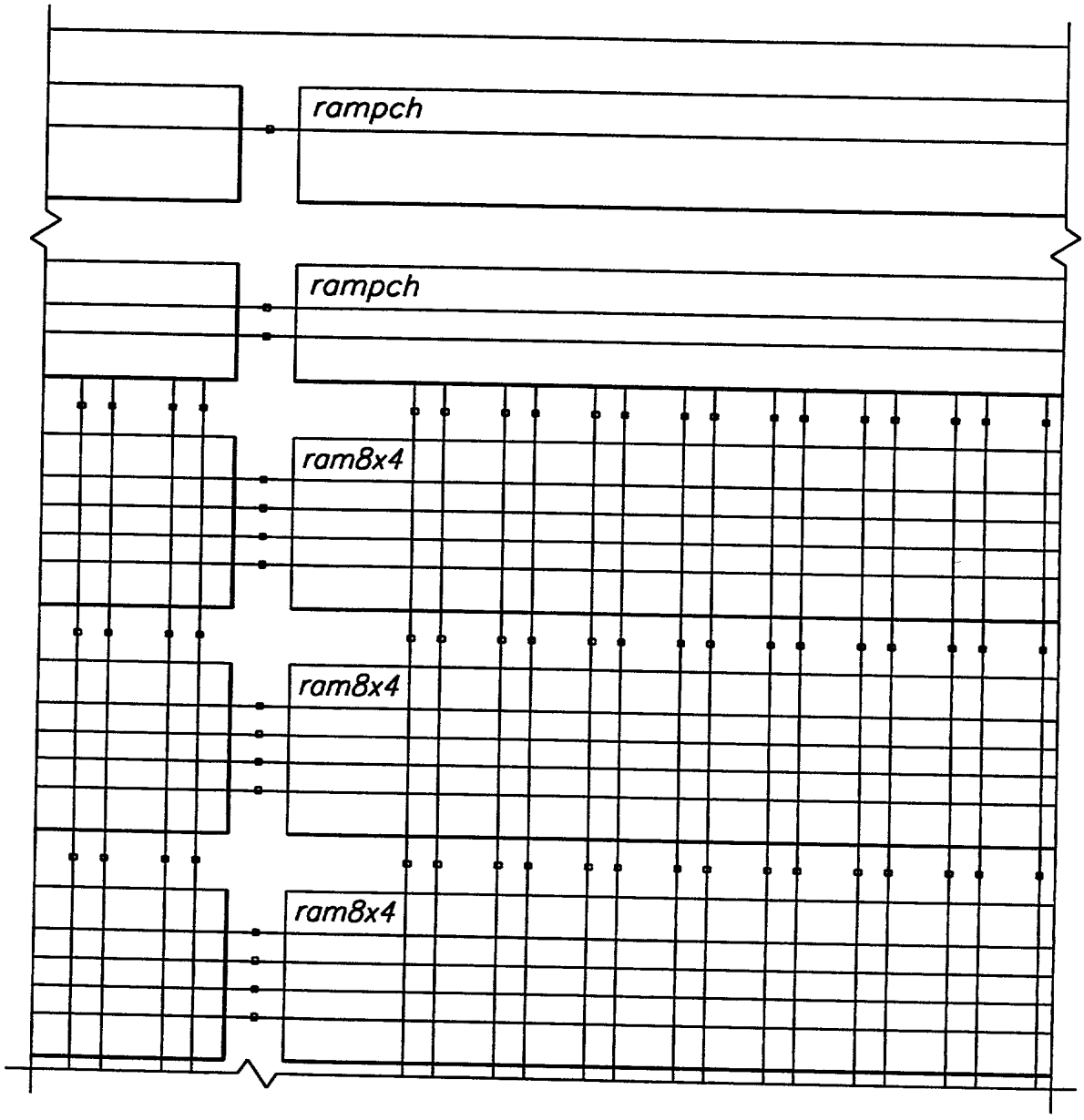


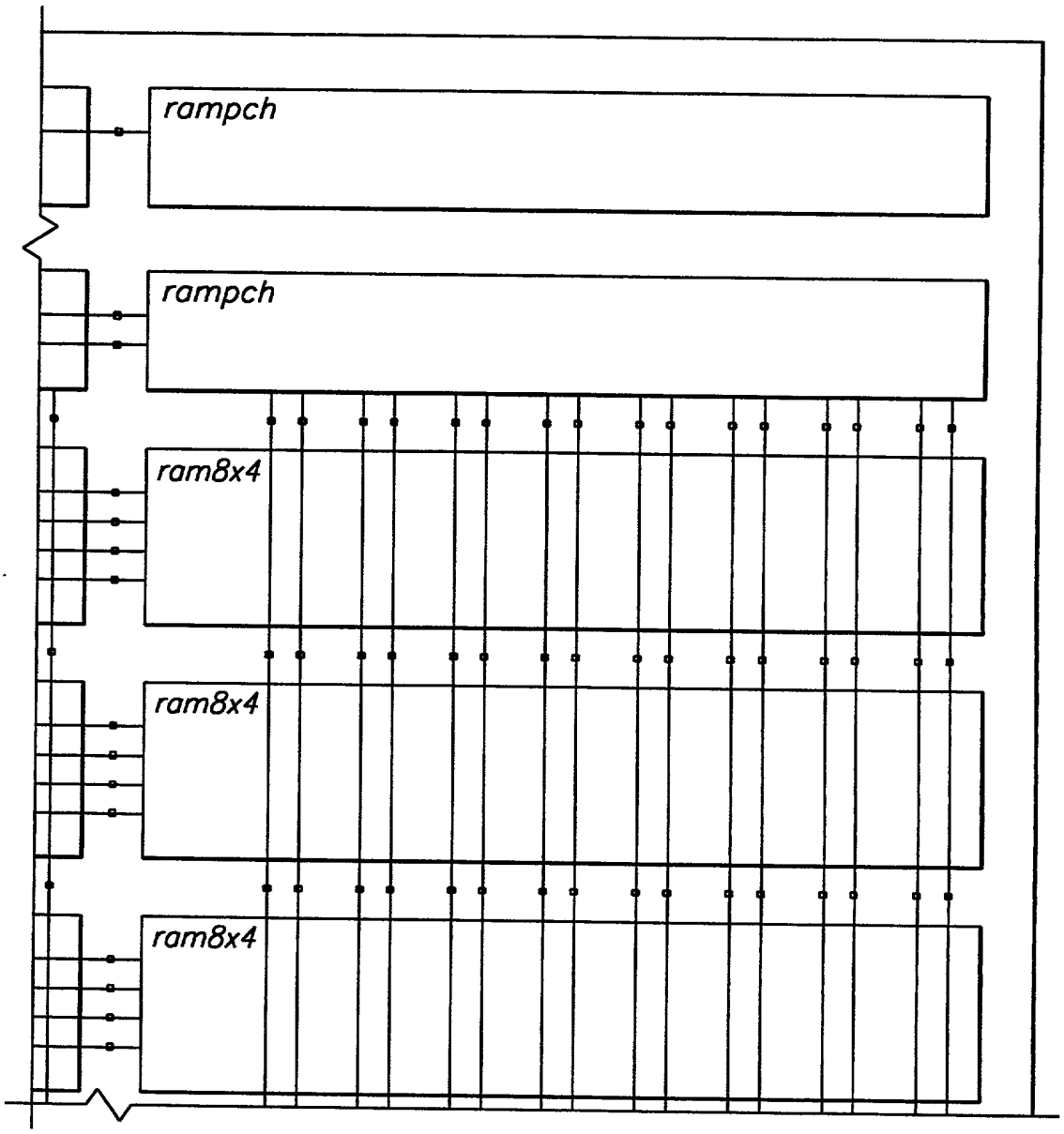
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5962-8965301



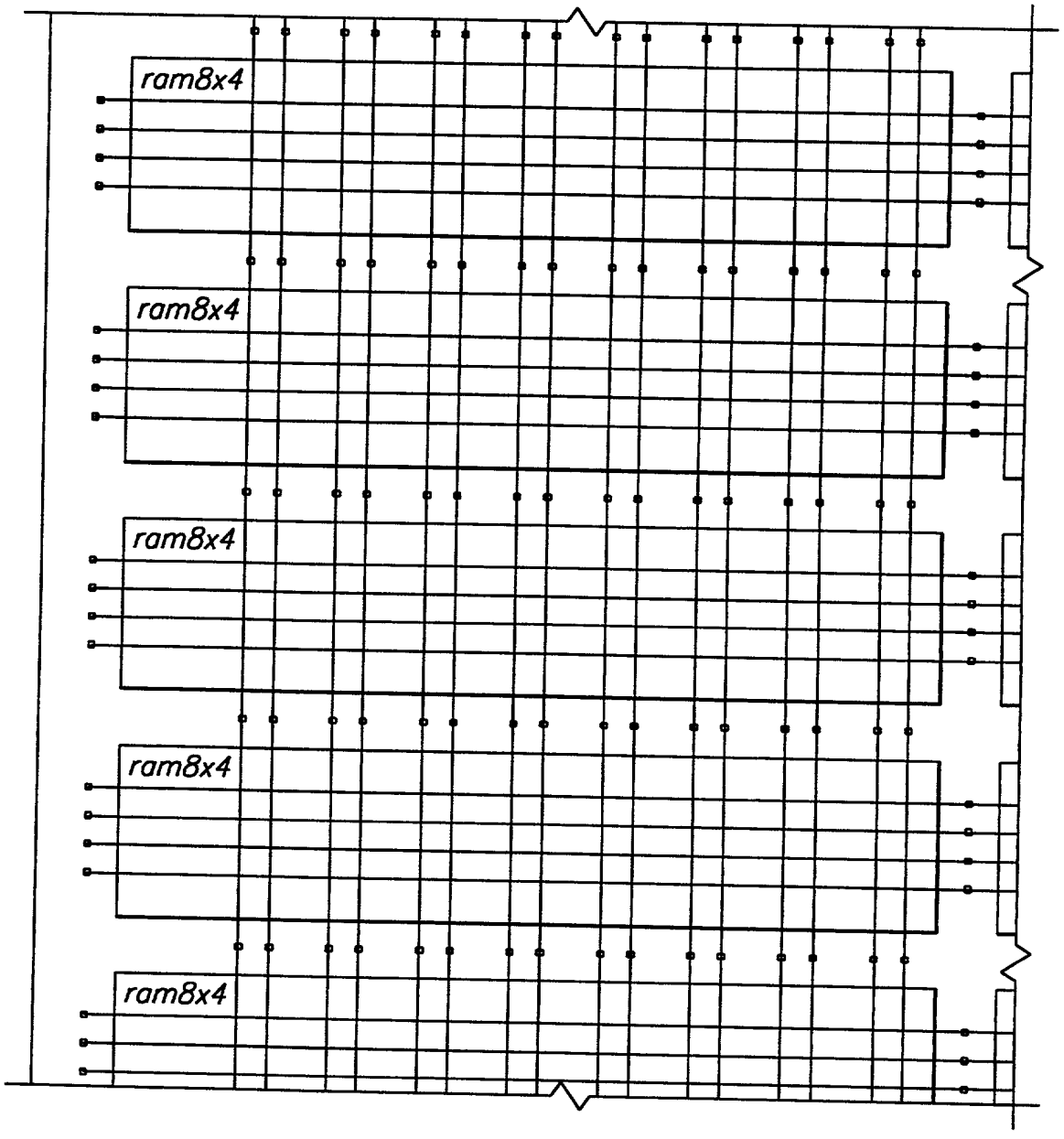
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Patent Document - 5,963,954



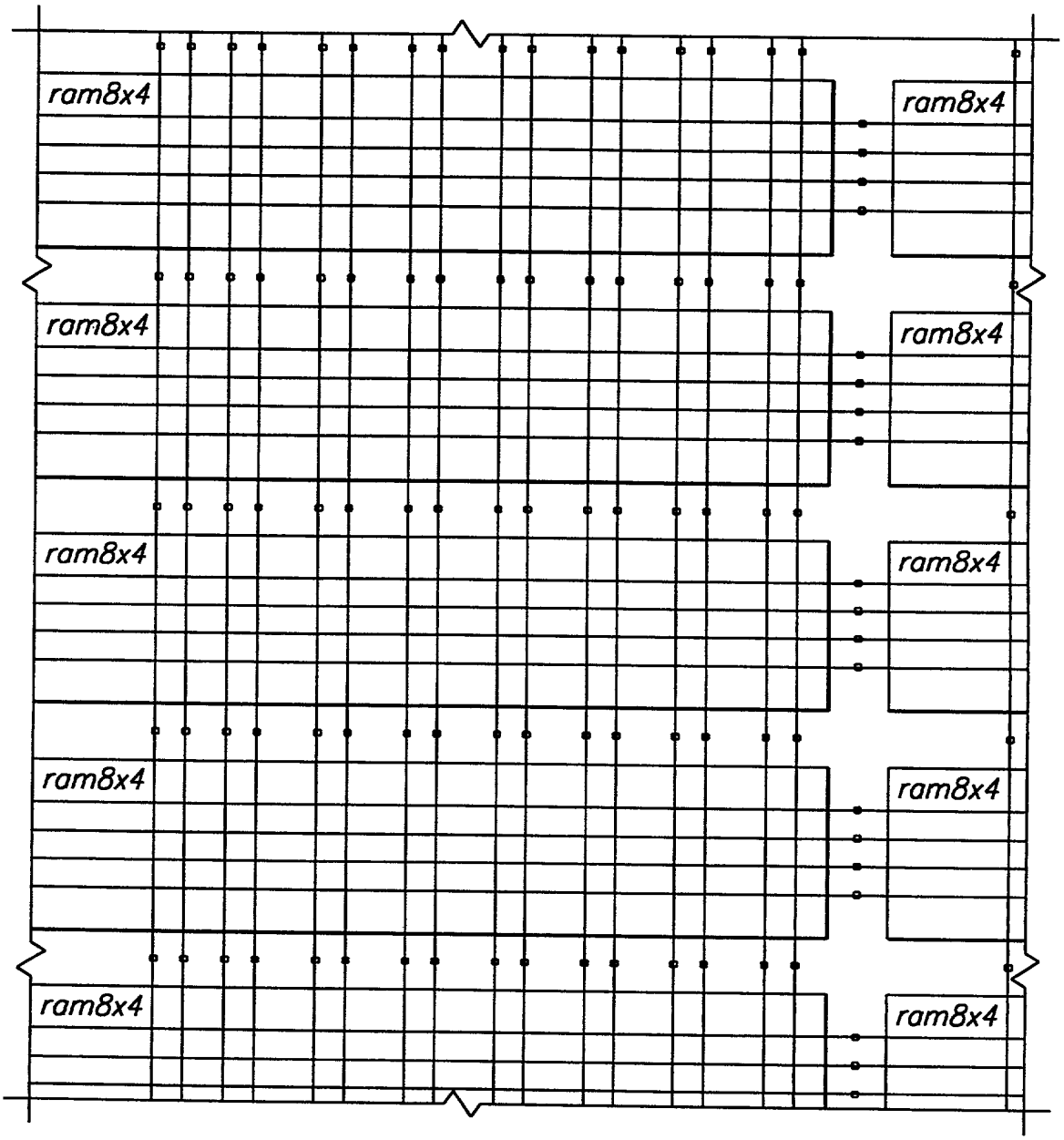
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EP 0 542 396 B1

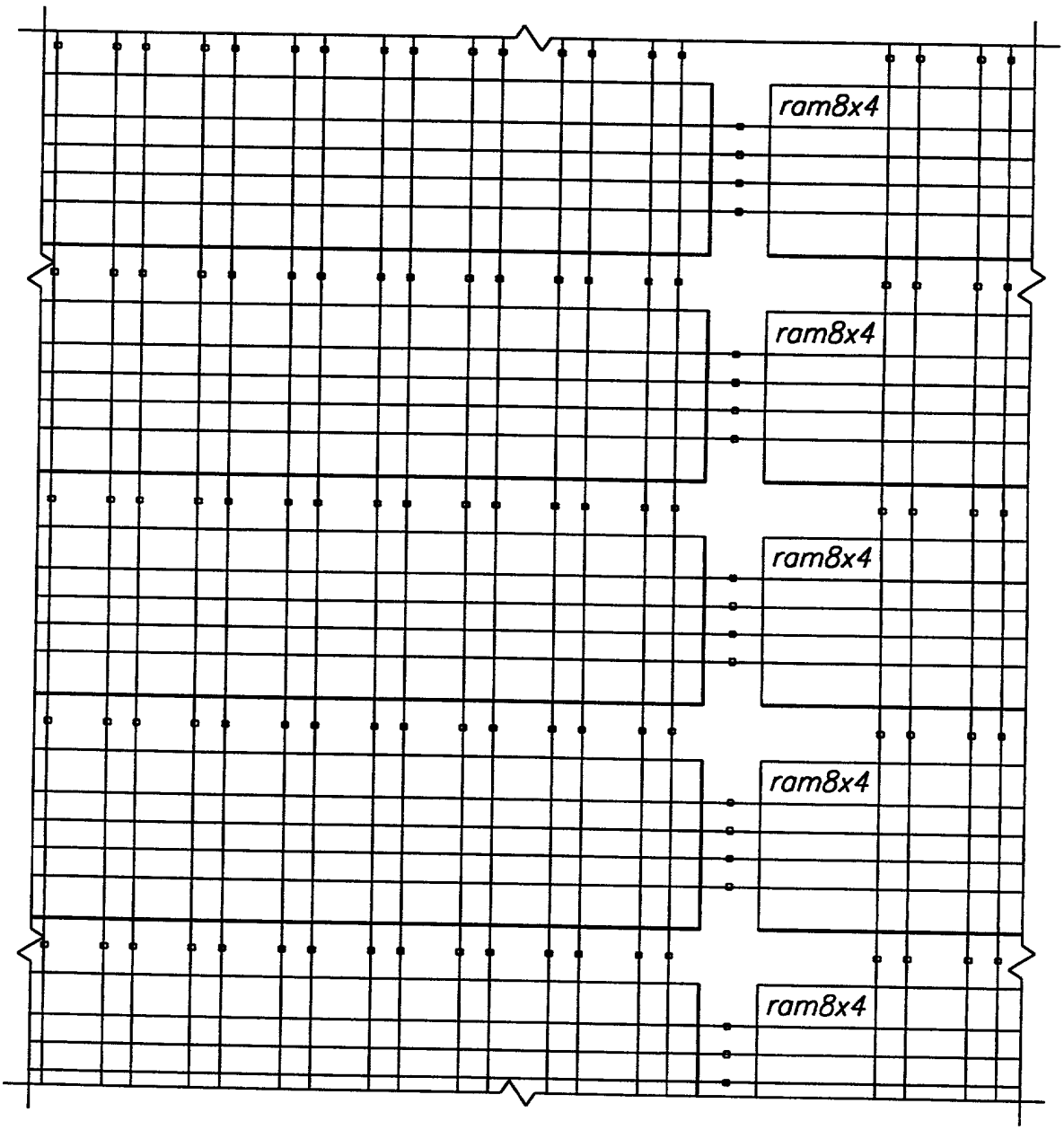


Фиг 1.03ВА

0564565 - 05456


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Фиг. 3



Фиг 1.0ЗЛВС

0562565 05/15/95

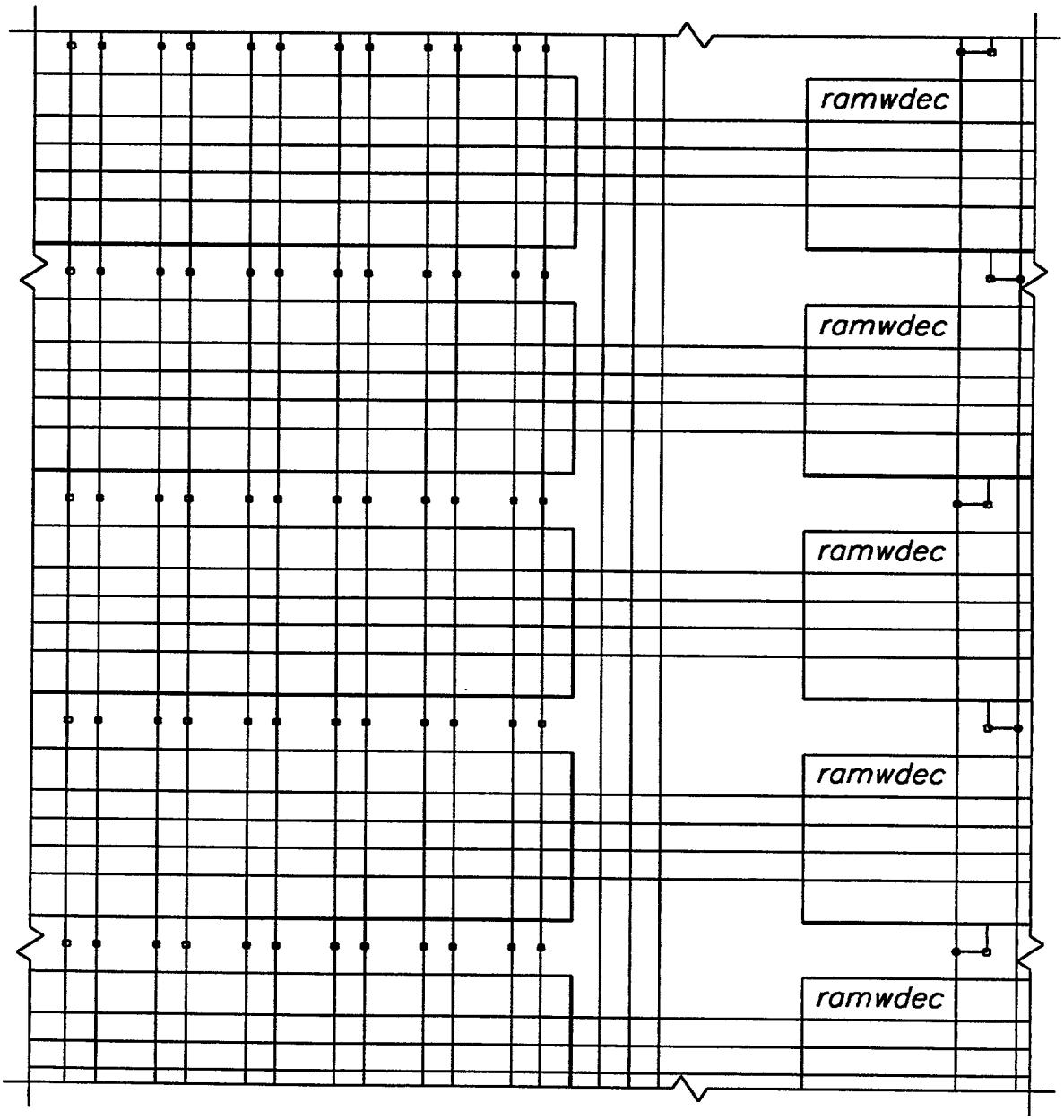


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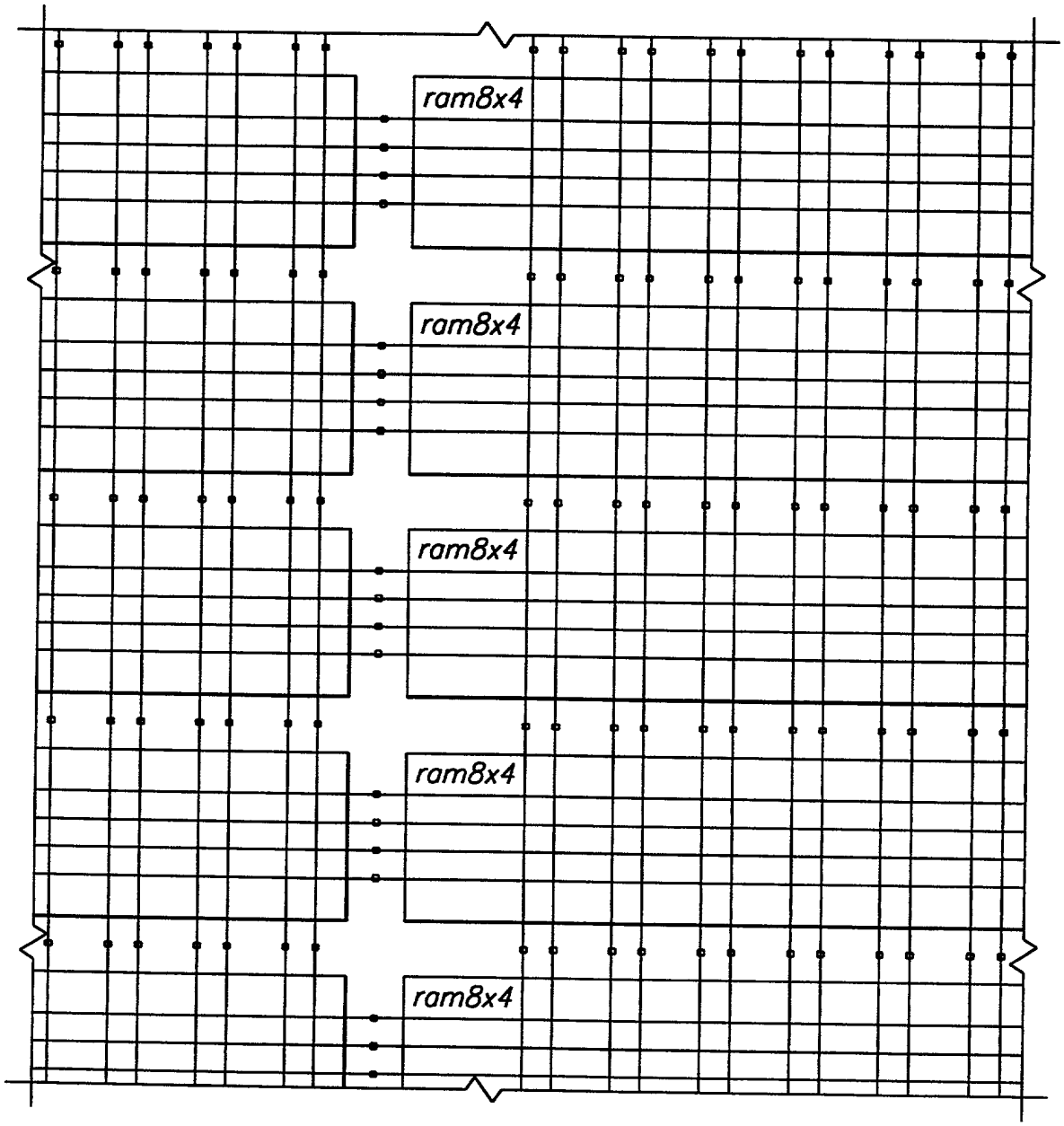
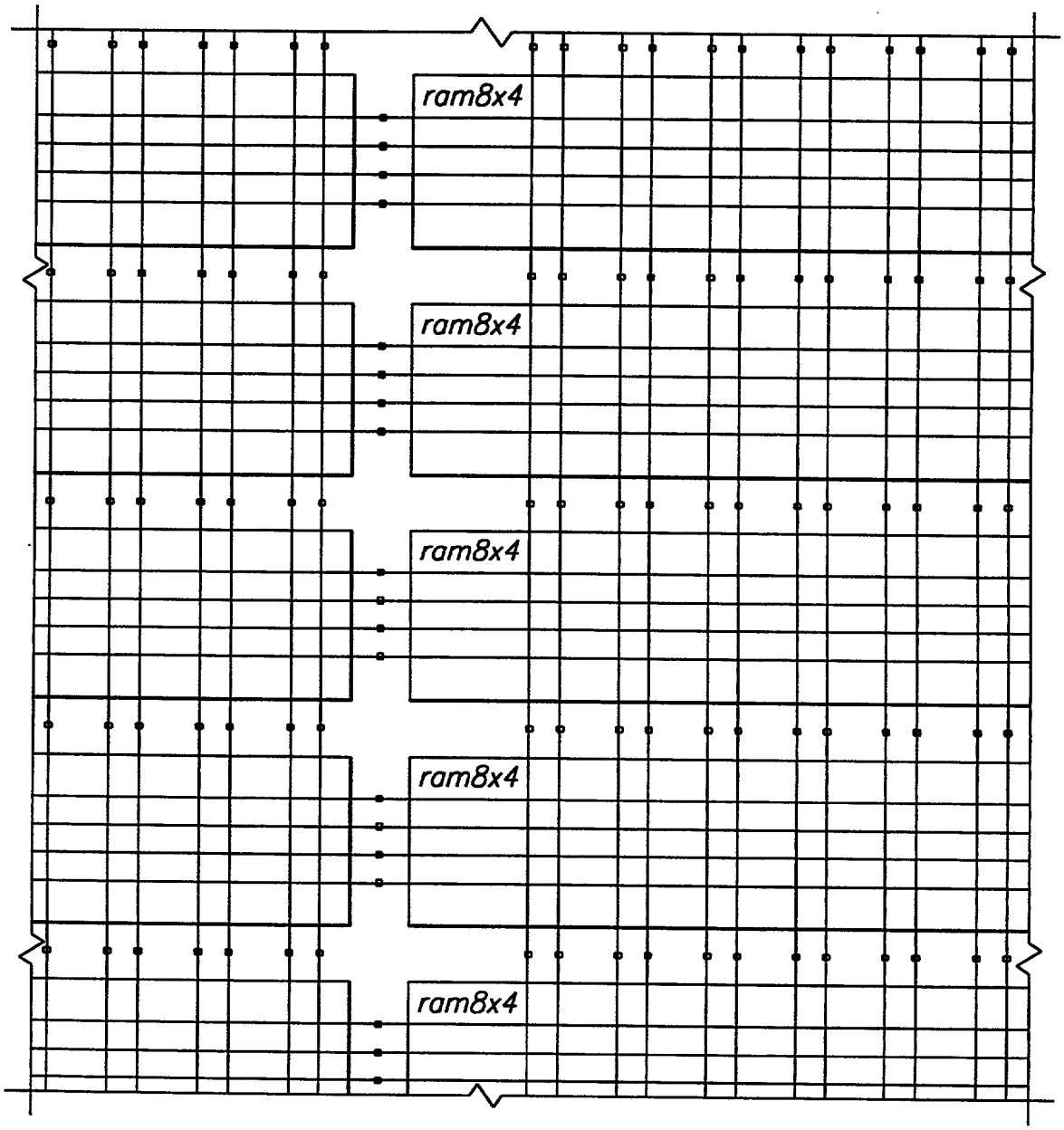


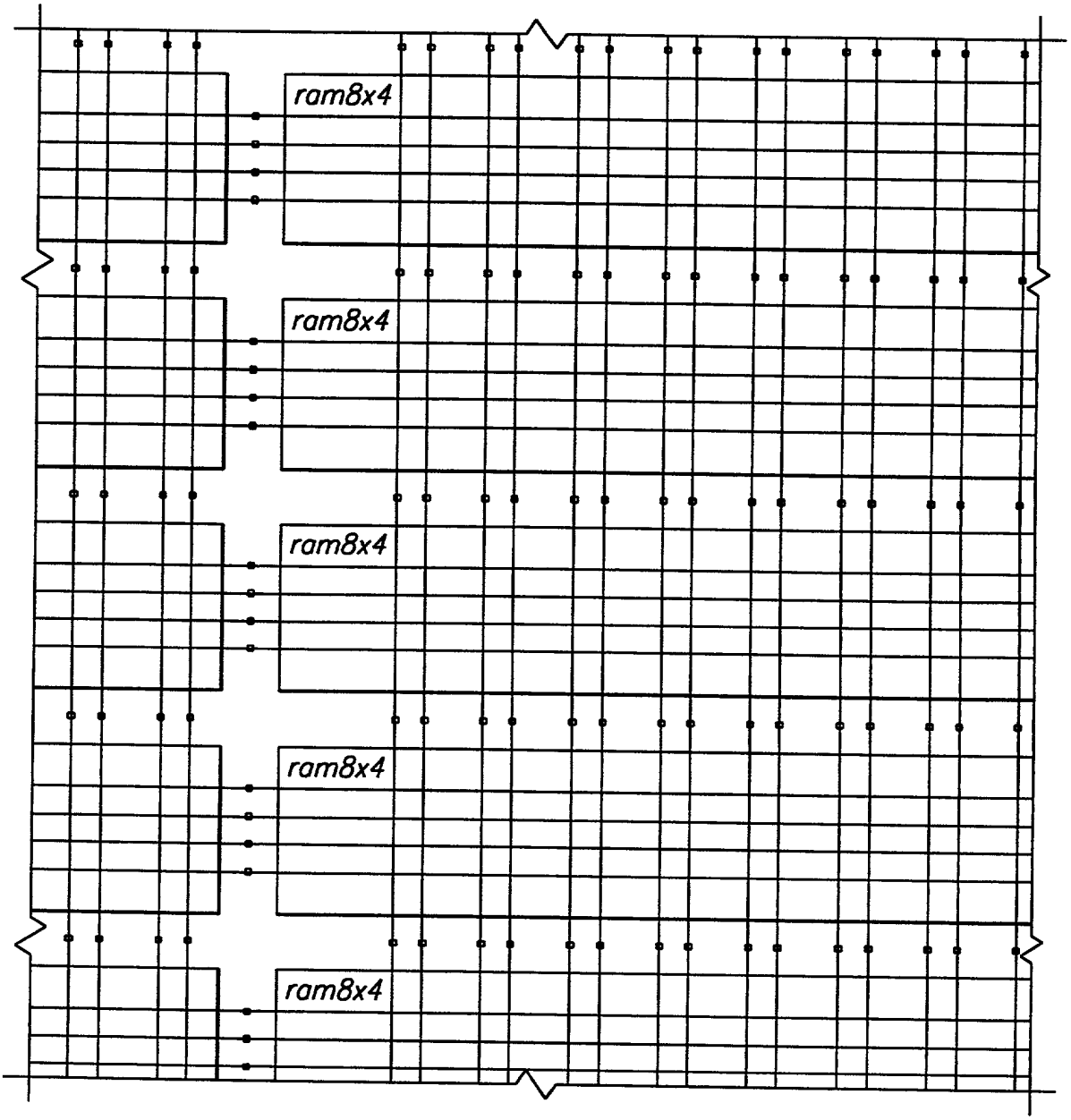
Fig 1.03BE

0962005 - 05.11.04



Вид 1.0398

Подлежит возврату



Фиг 1.0396

P0174.50.952059.1

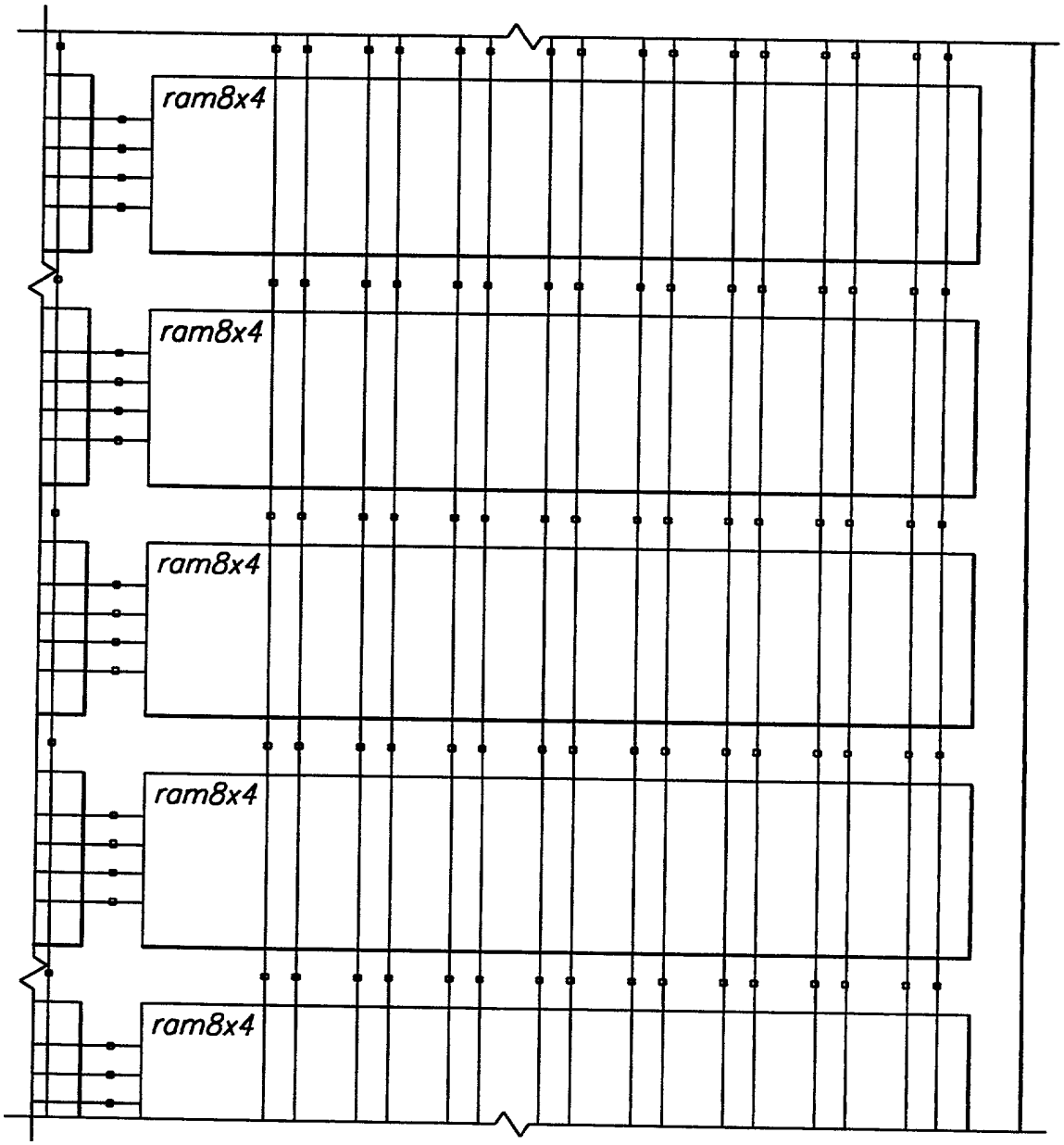
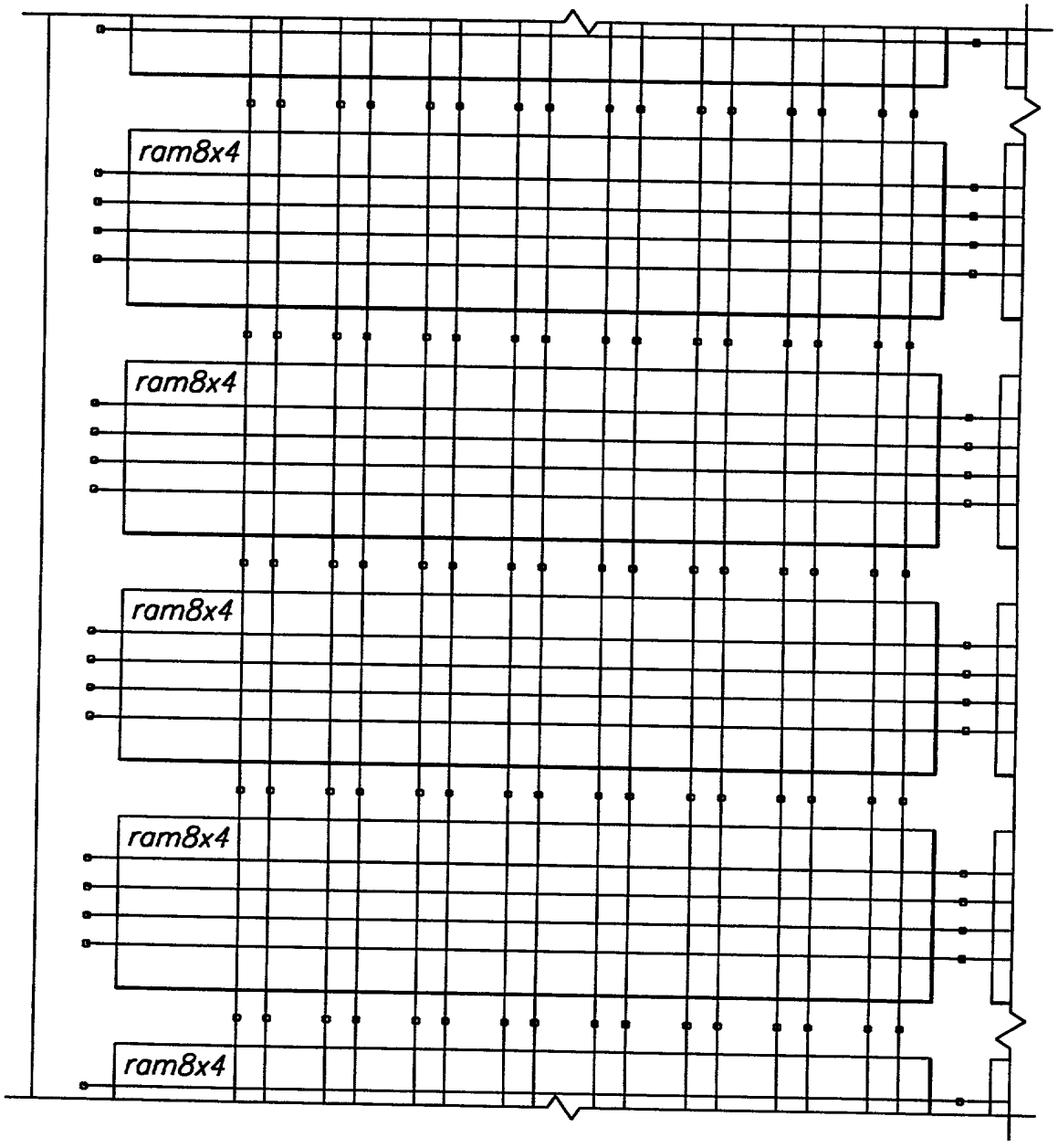


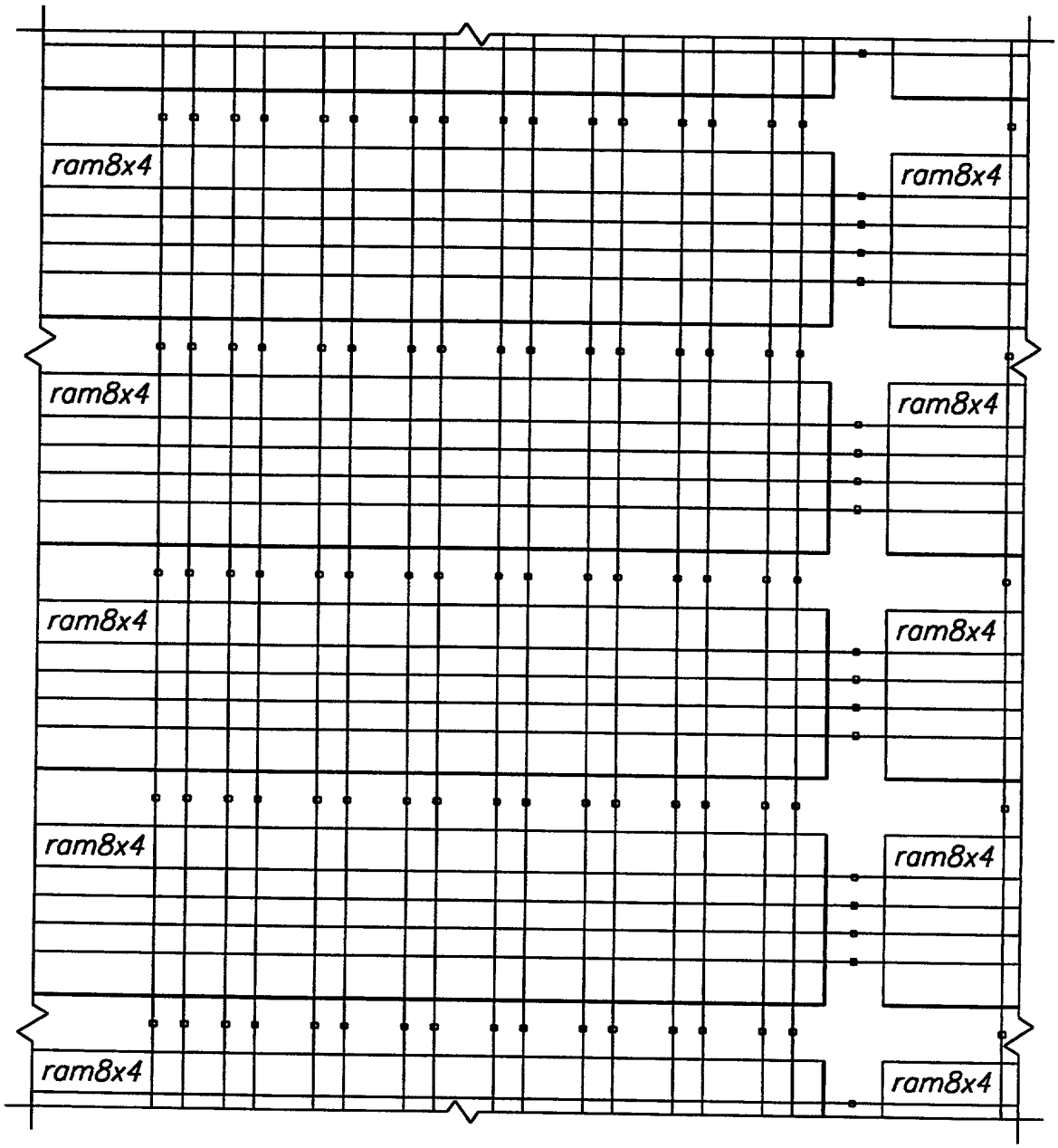
Рис 1.03ВН

Patent Application Publication



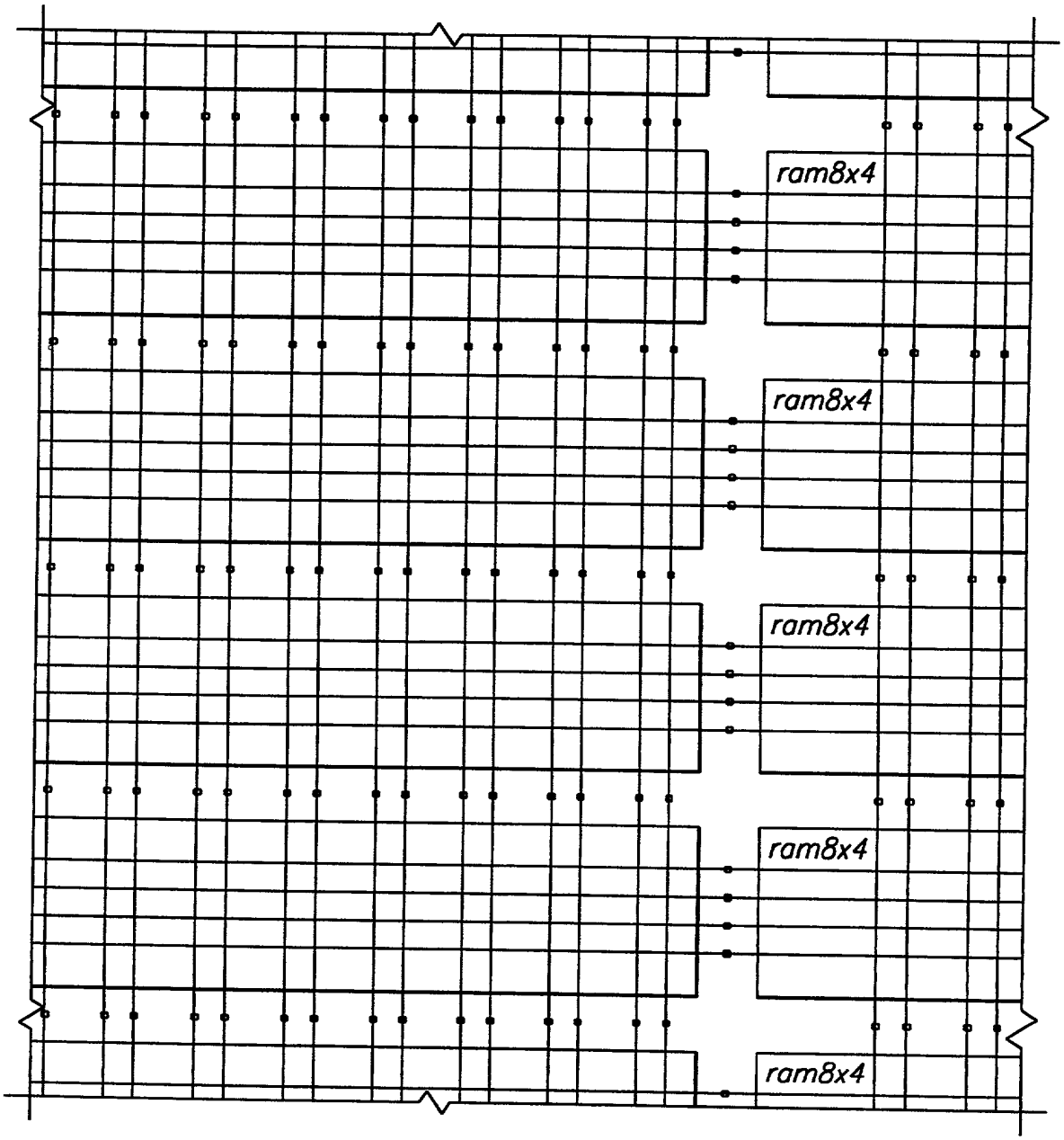
Фиг 1.ПРИОР

0952052 05.11.97



Фиг 7.0336

P0172950.PDF.05.17.09



Фиг 1.03С

0562656 - 05641404

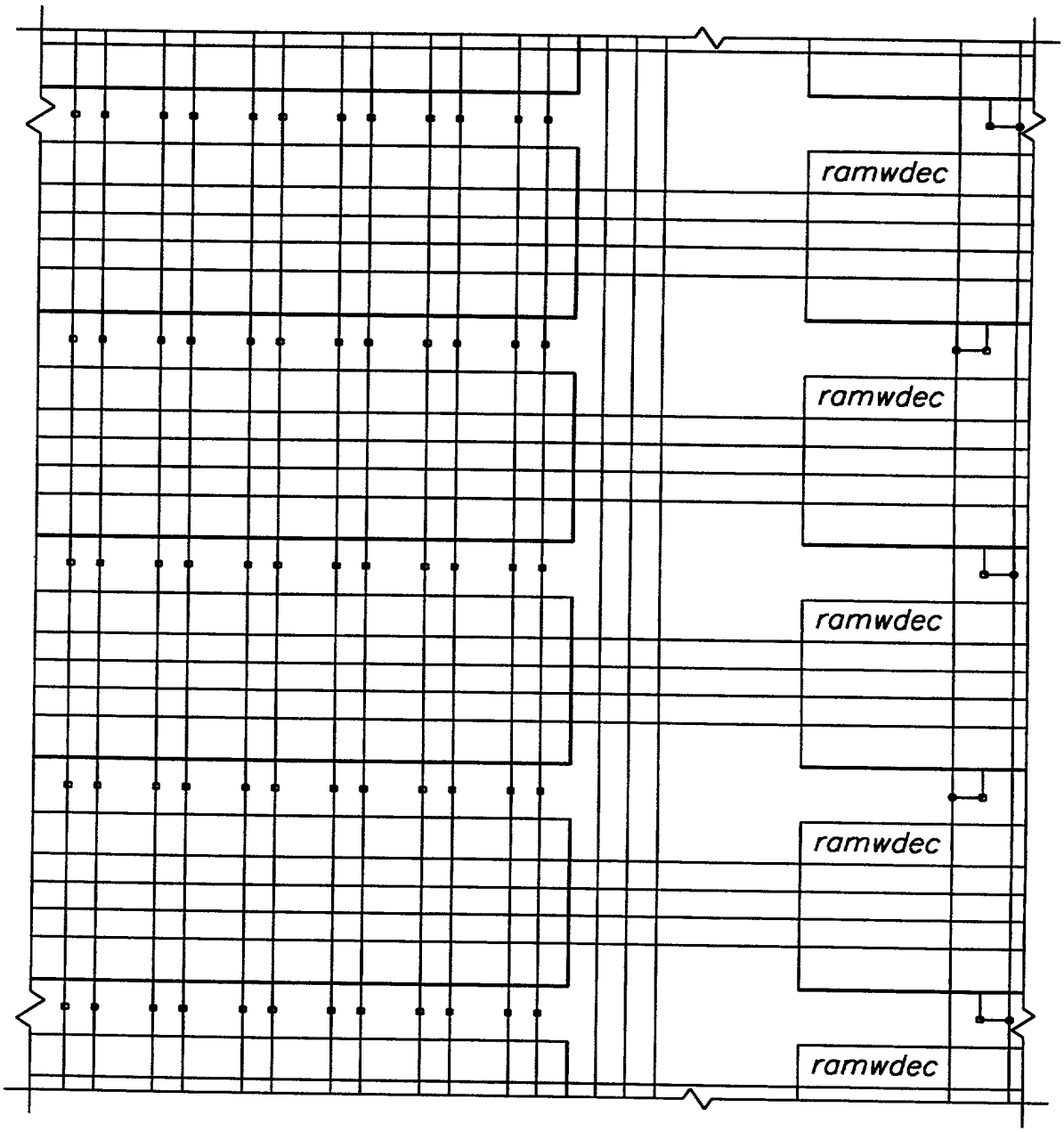
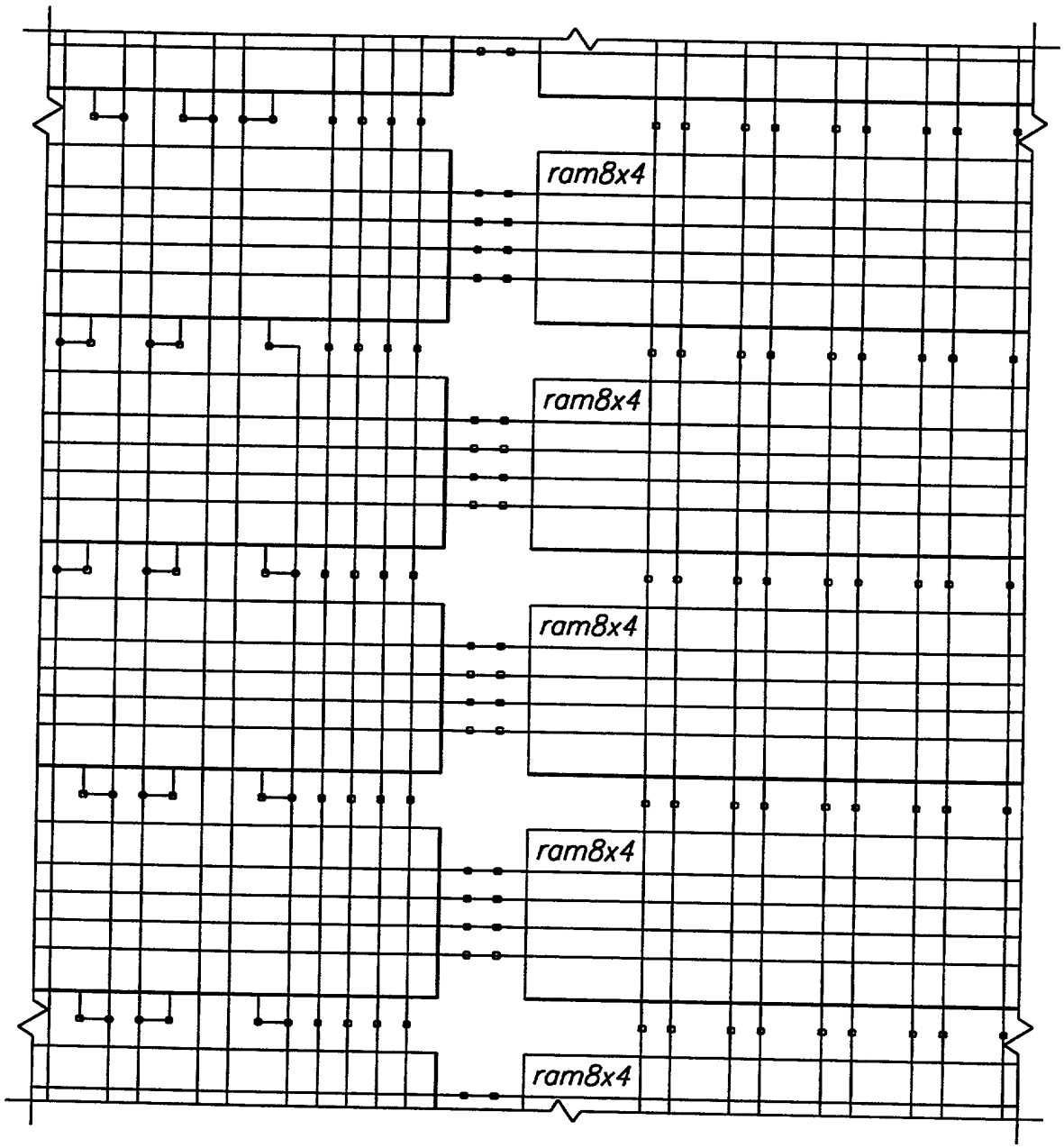


Fig 1.03CD

US 5,594,695



Вид 1.ЭЕ

0596206 .06.4.01

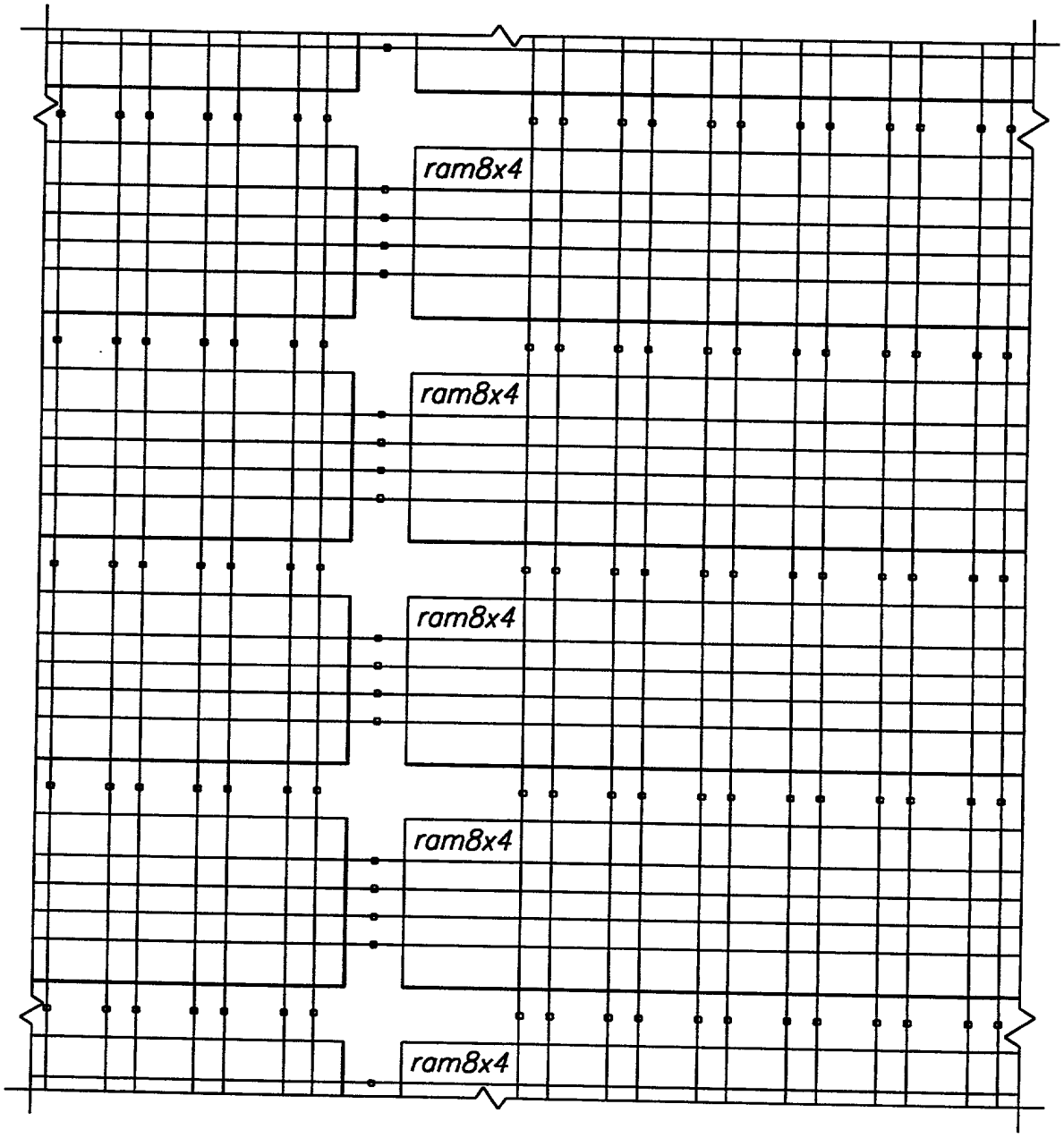


Fig 1.03CF

US6526559 - 05-4-04

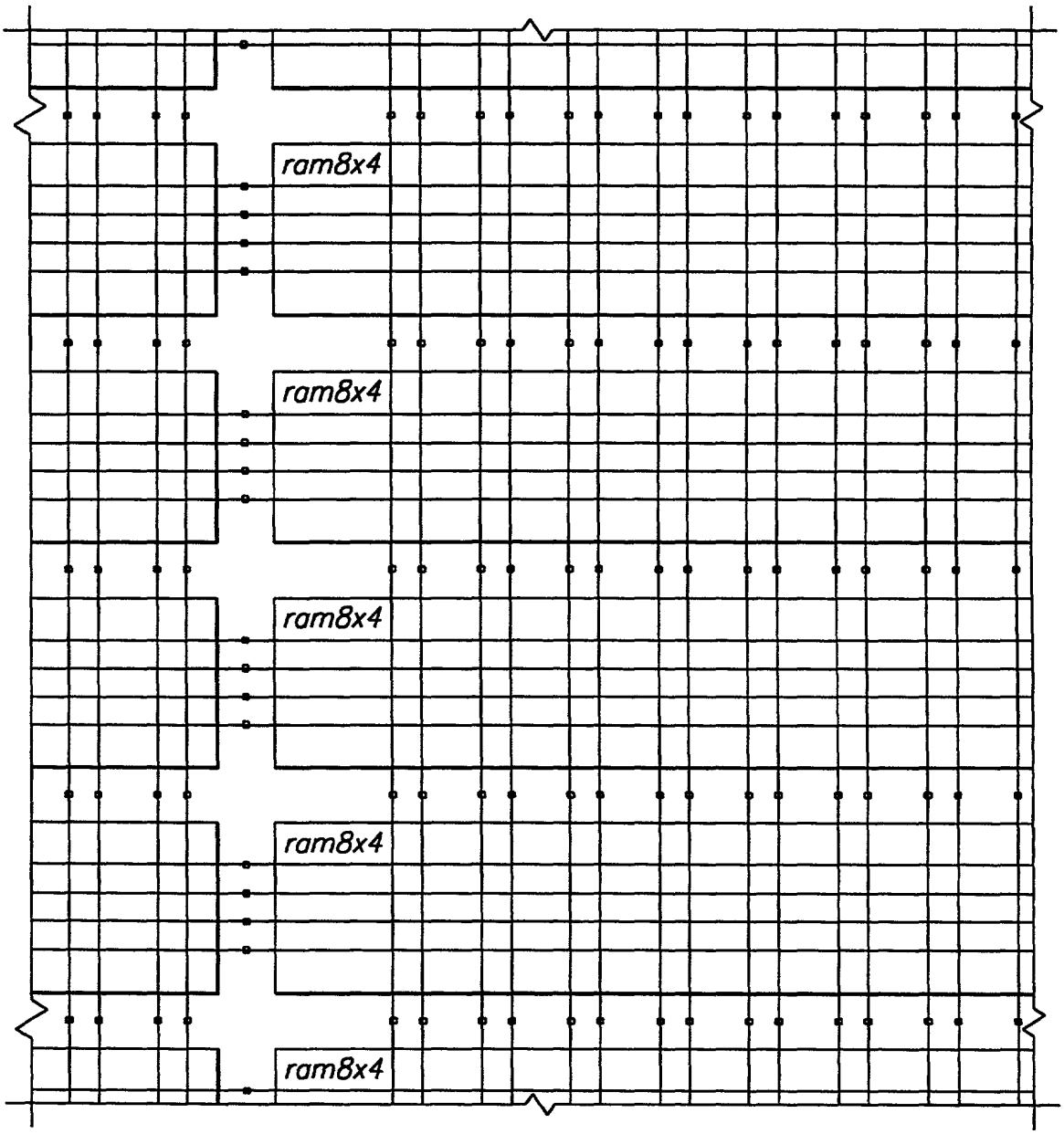
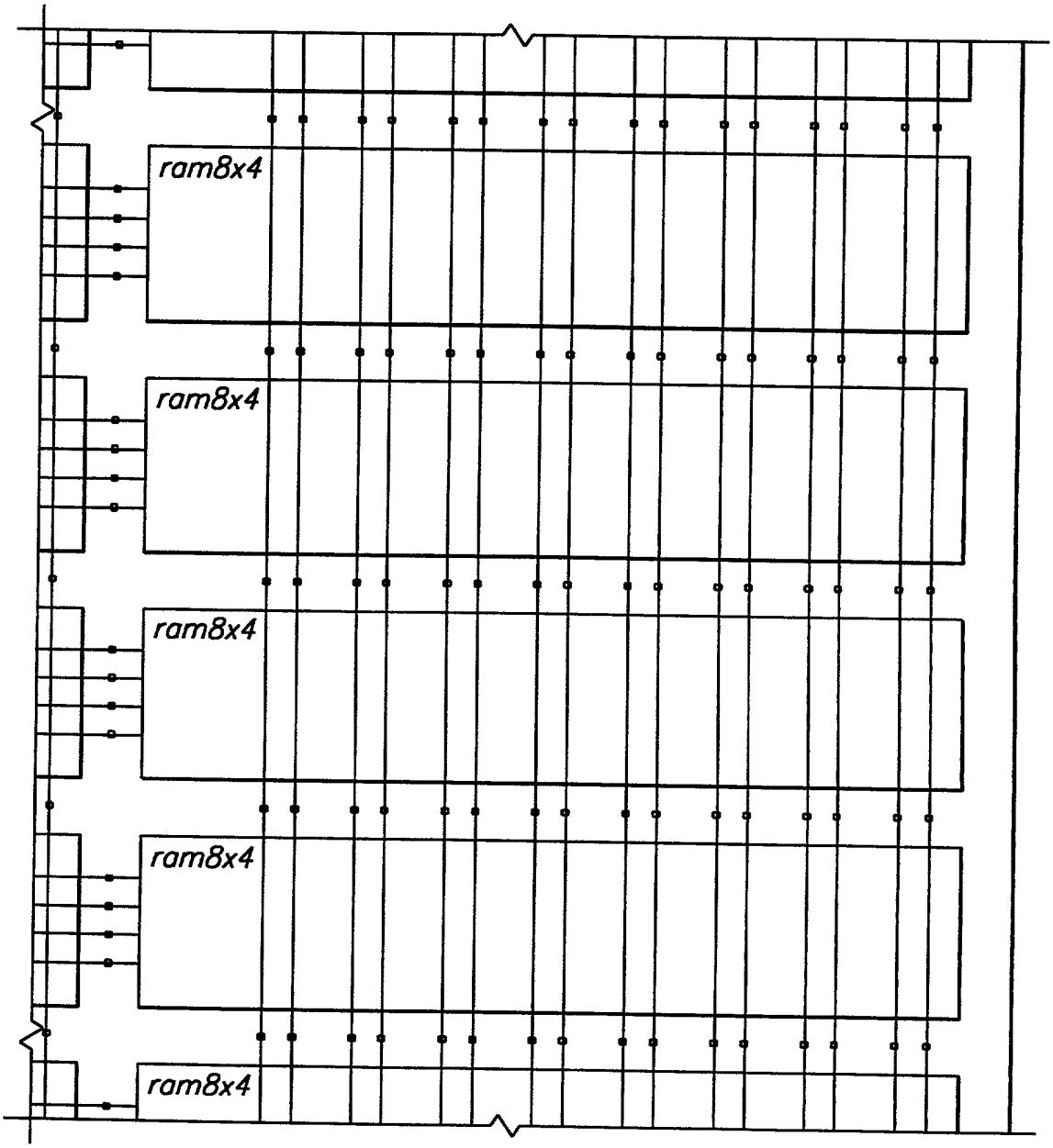


Fig 7.03C6

0952065 GB1105



Фиг 1.03СН

0962959 .05.4.04

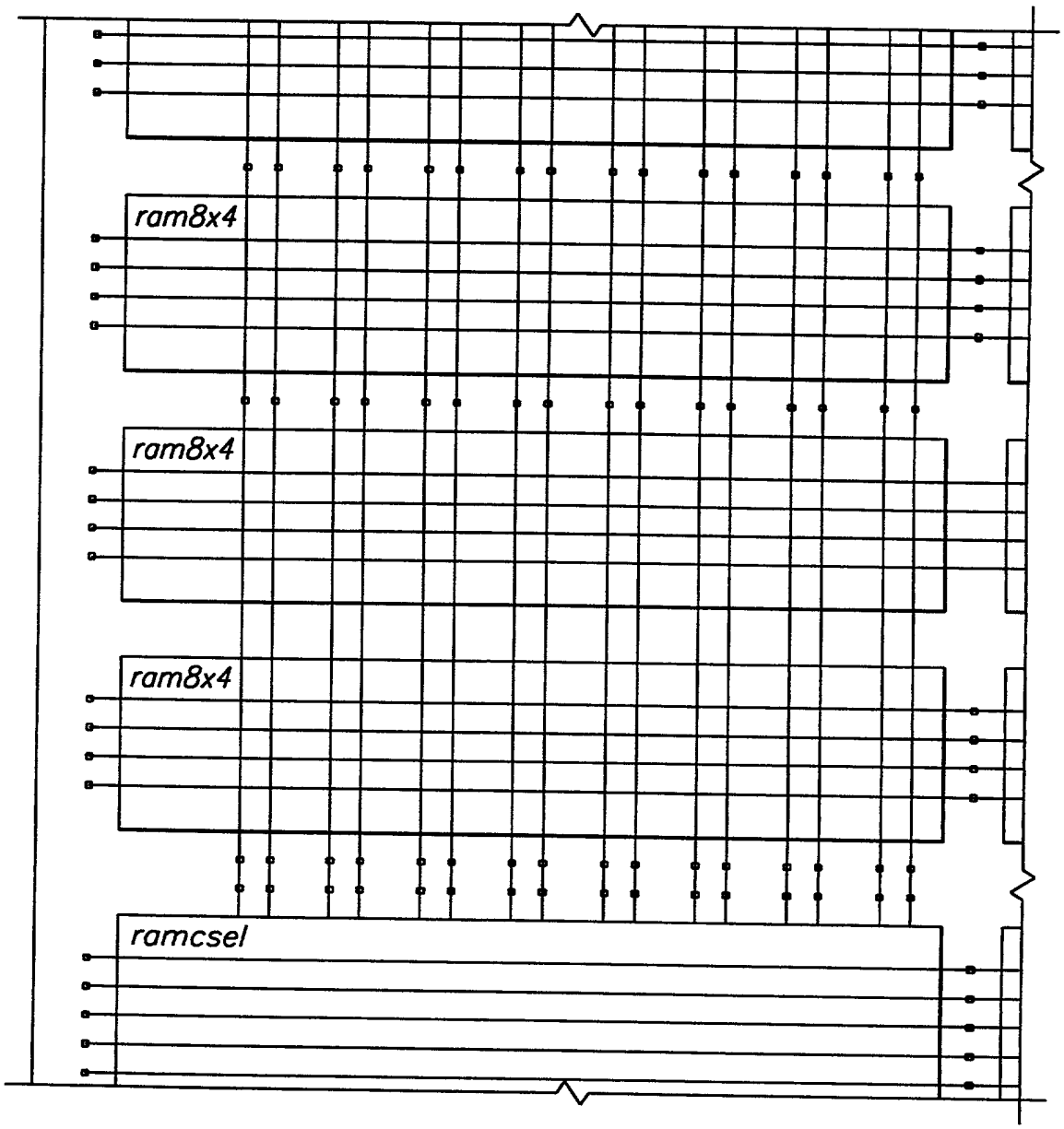


Fig 1.03DA

EP 0 524 968 B1

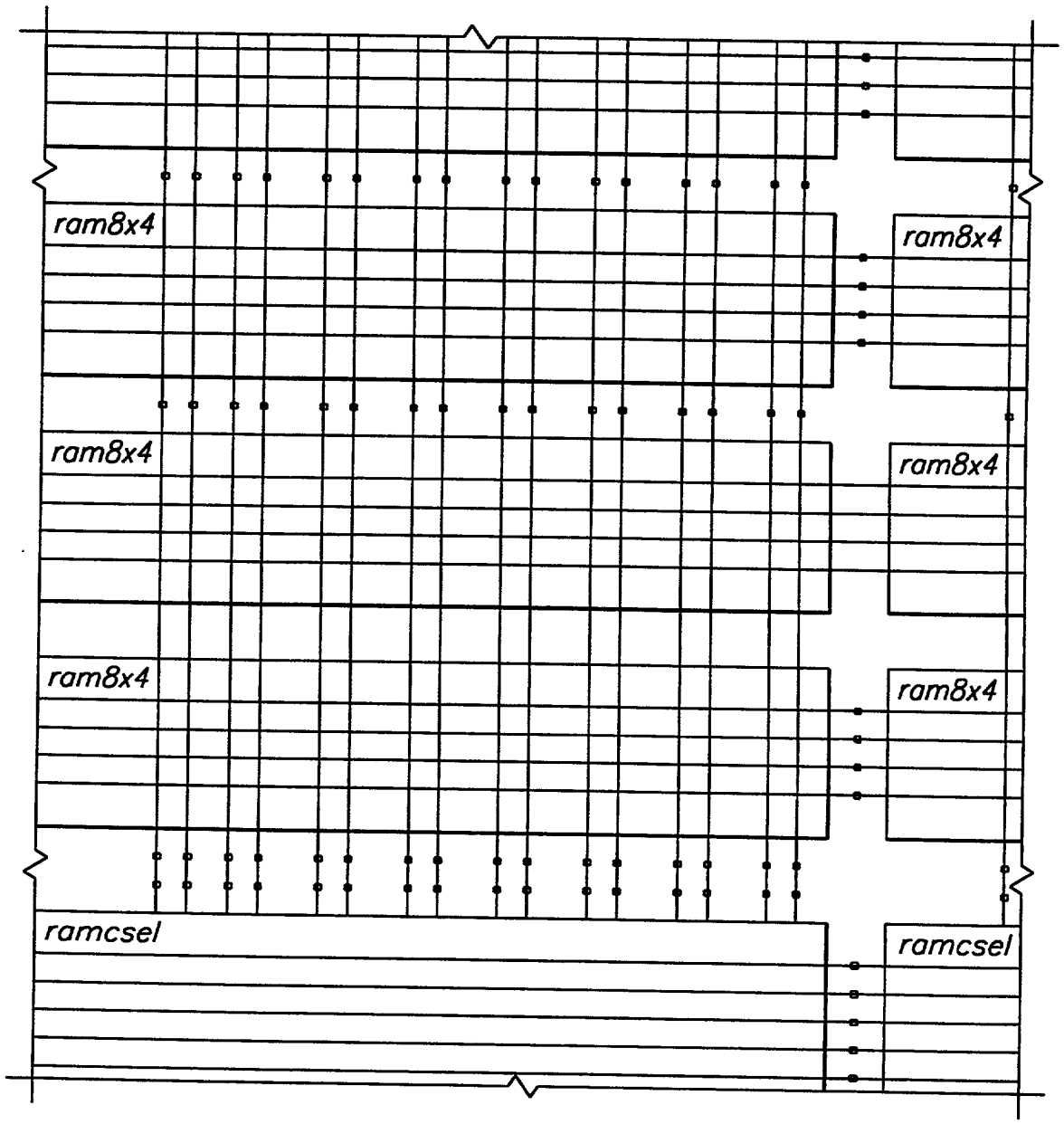


Fig 1.0308

0562205 .05/1/04

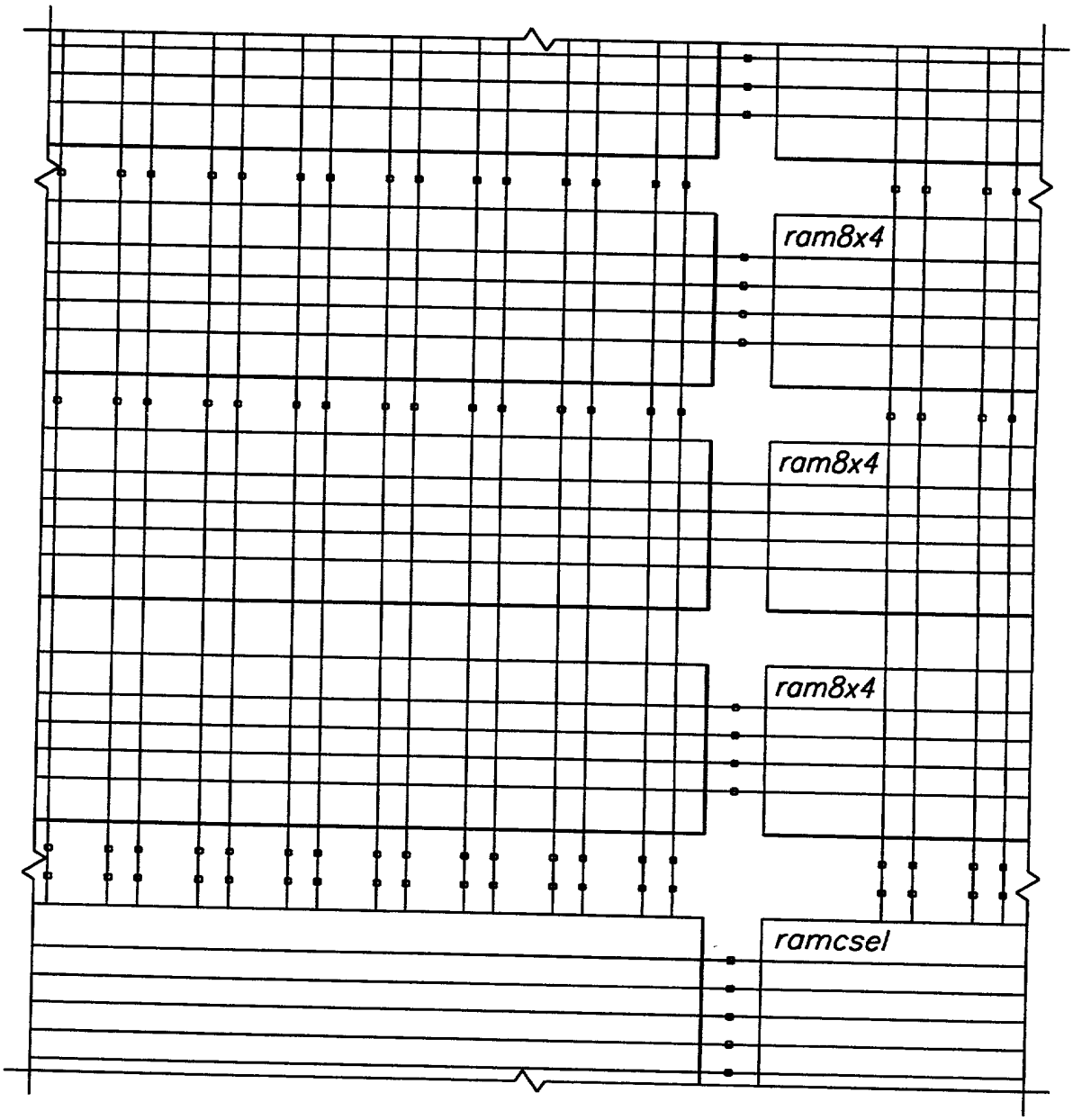


Fig 7.0301

US6226769B1

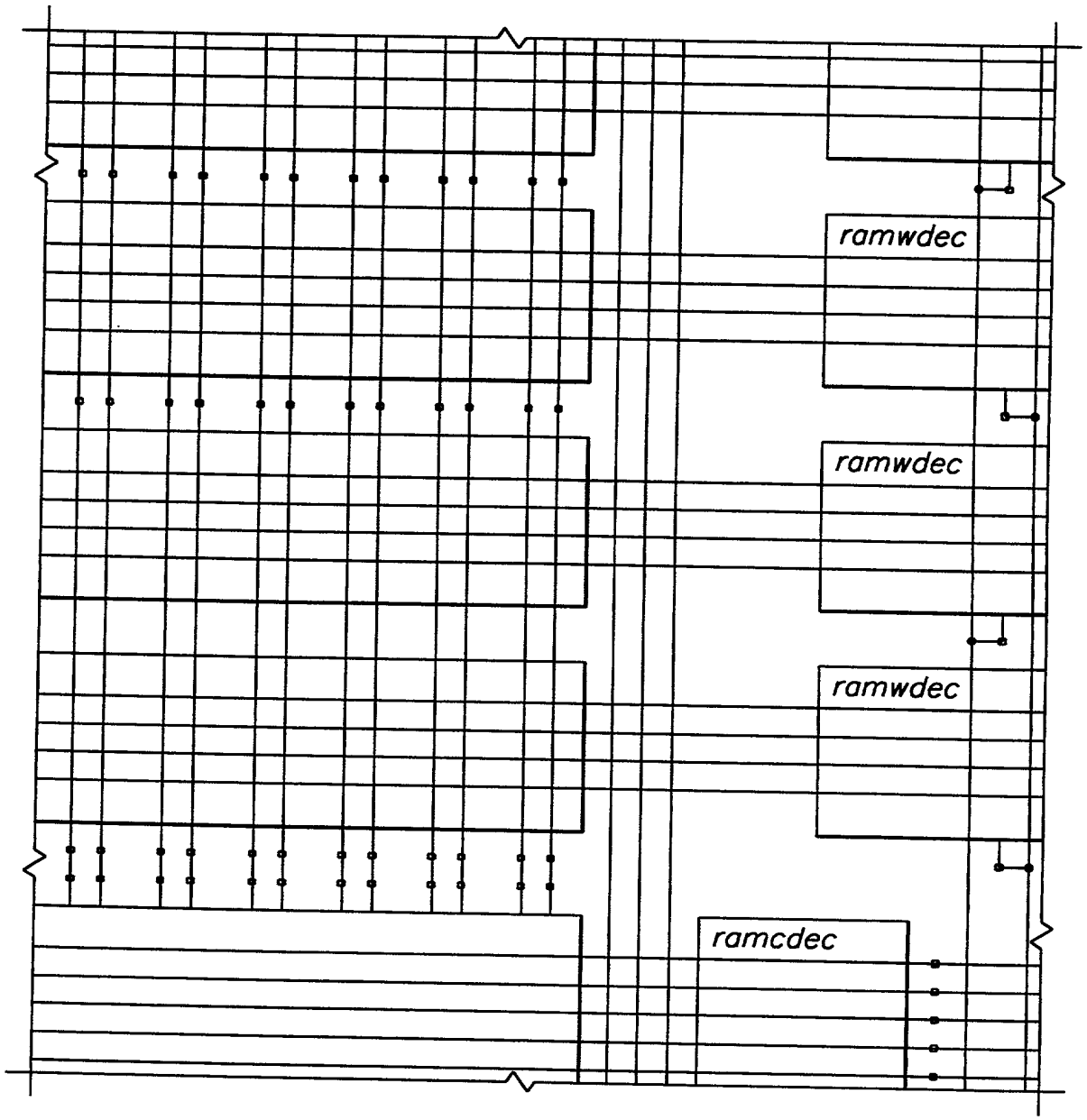


Fig 7.0300

09422950 05-11-01

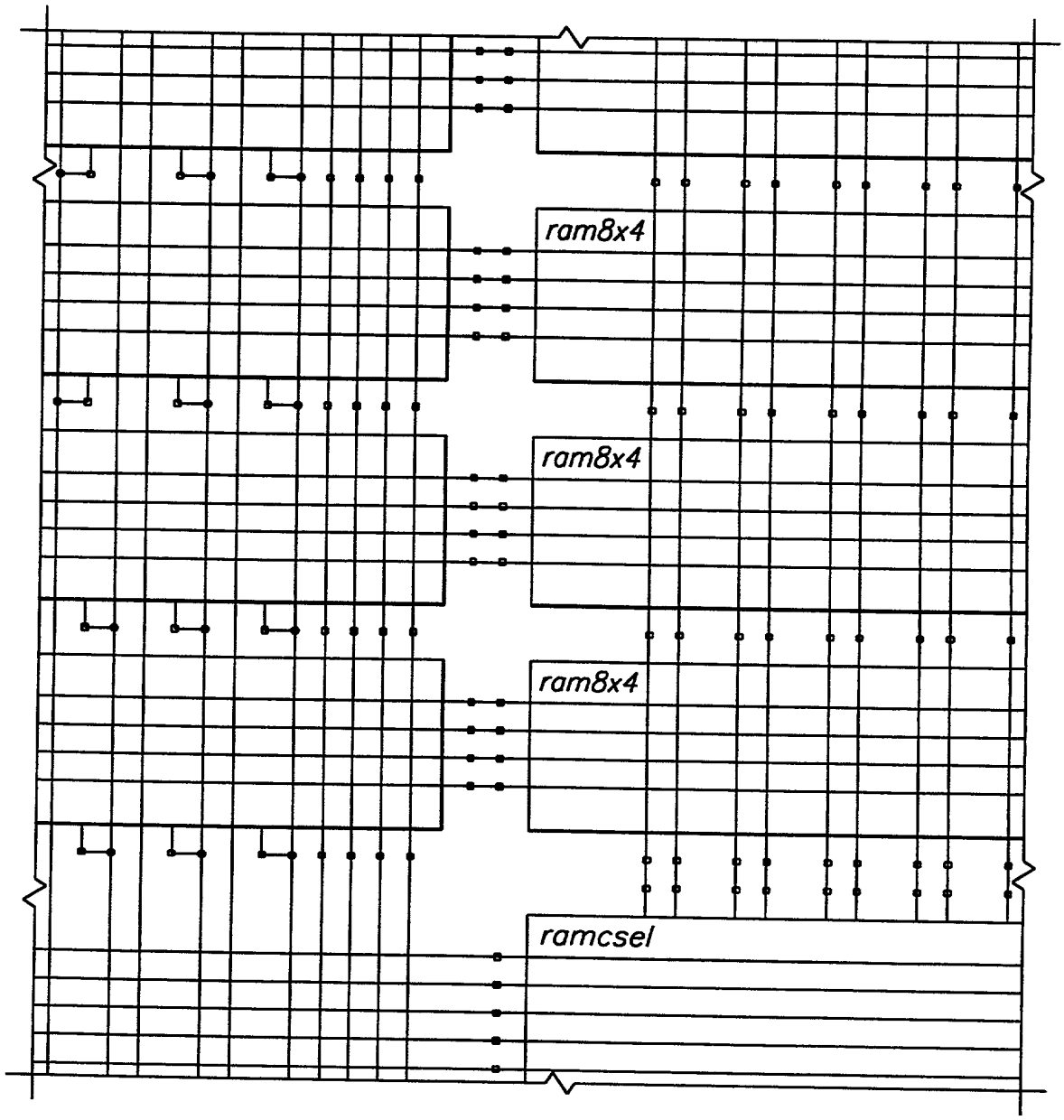


Fig 1.0300E

Document Control Number 0564400

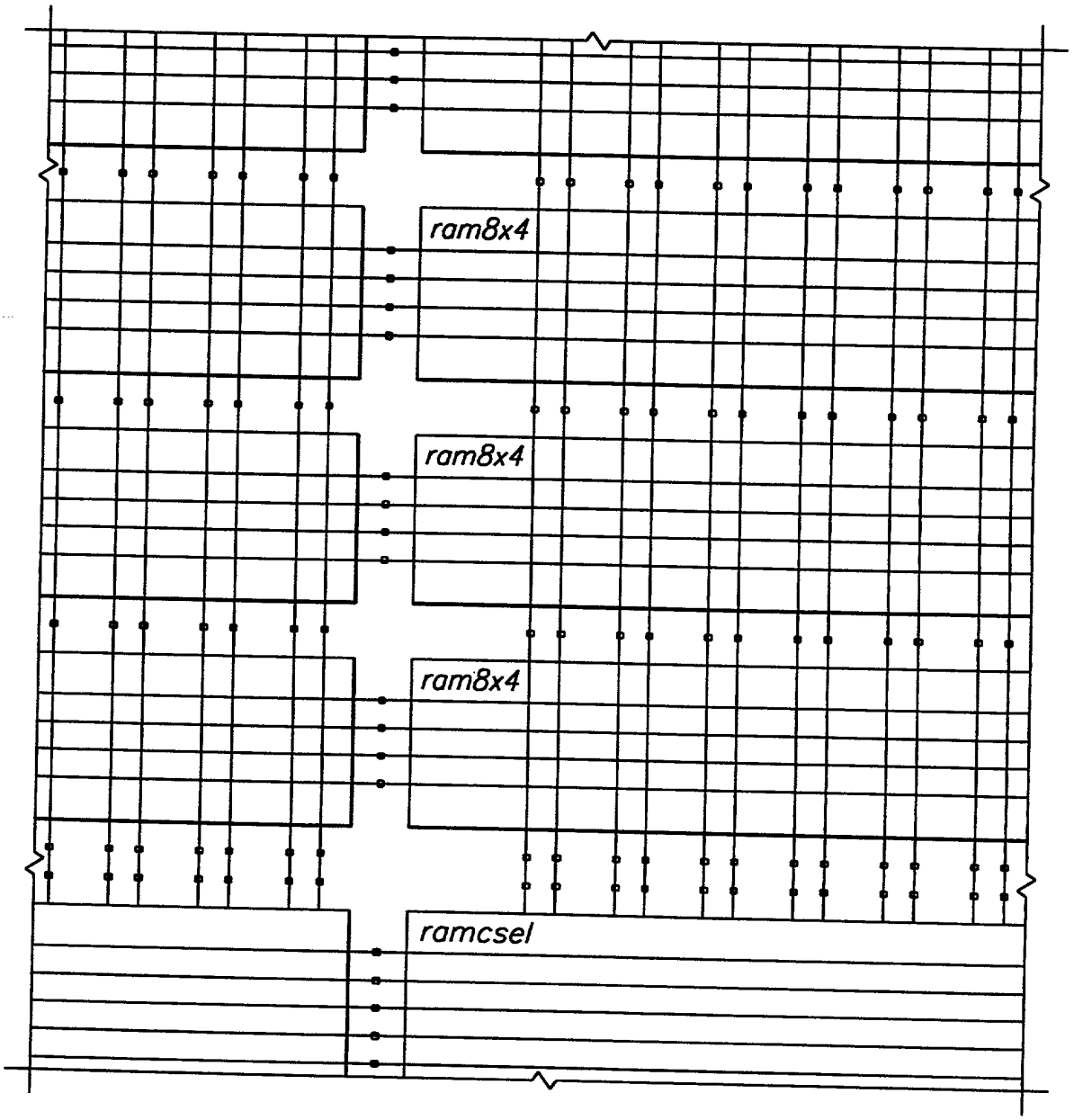


Fig 1.030F

US6292855B1

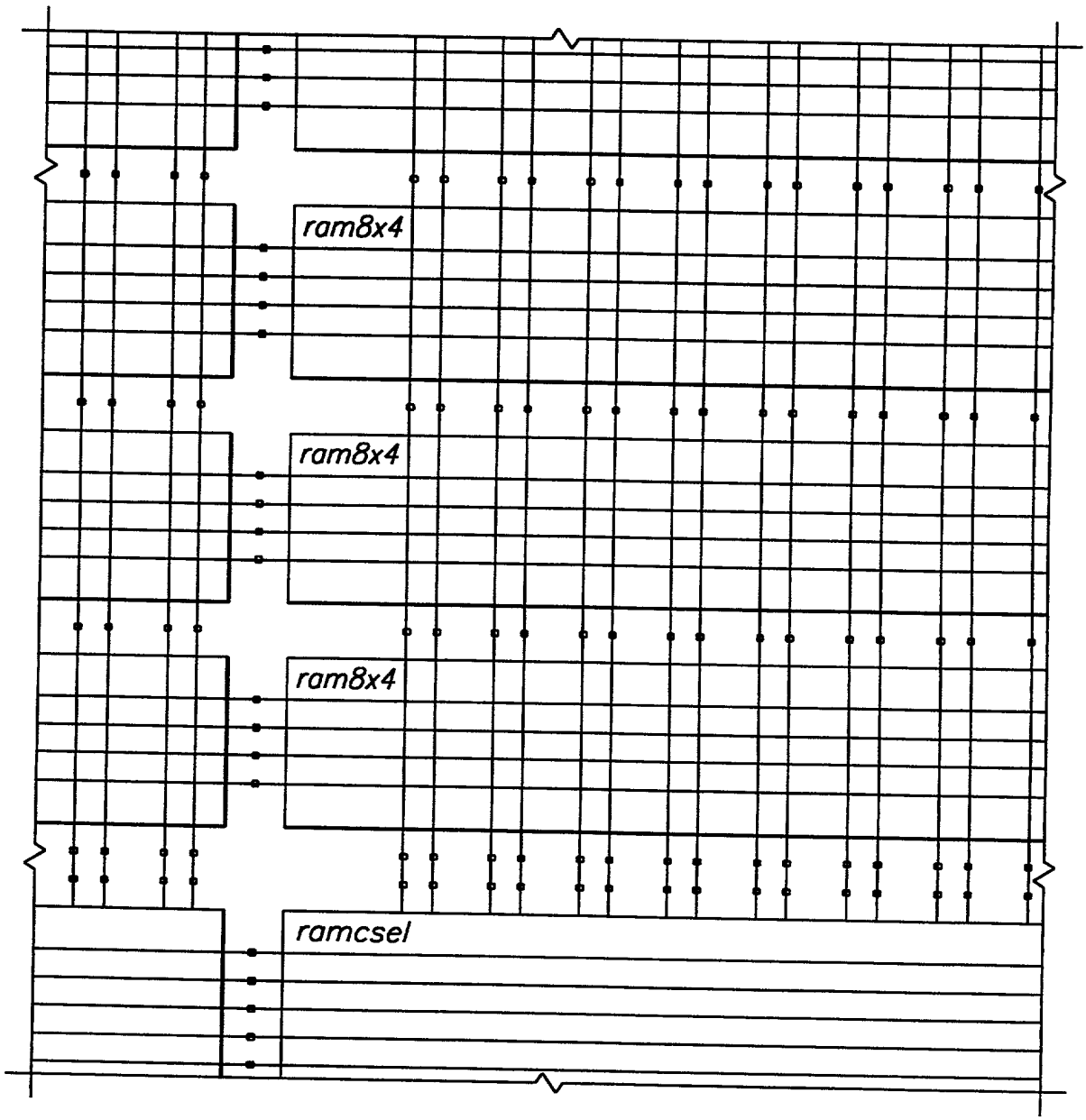


Fig 1.0306

US5752265 - 05-12-1998

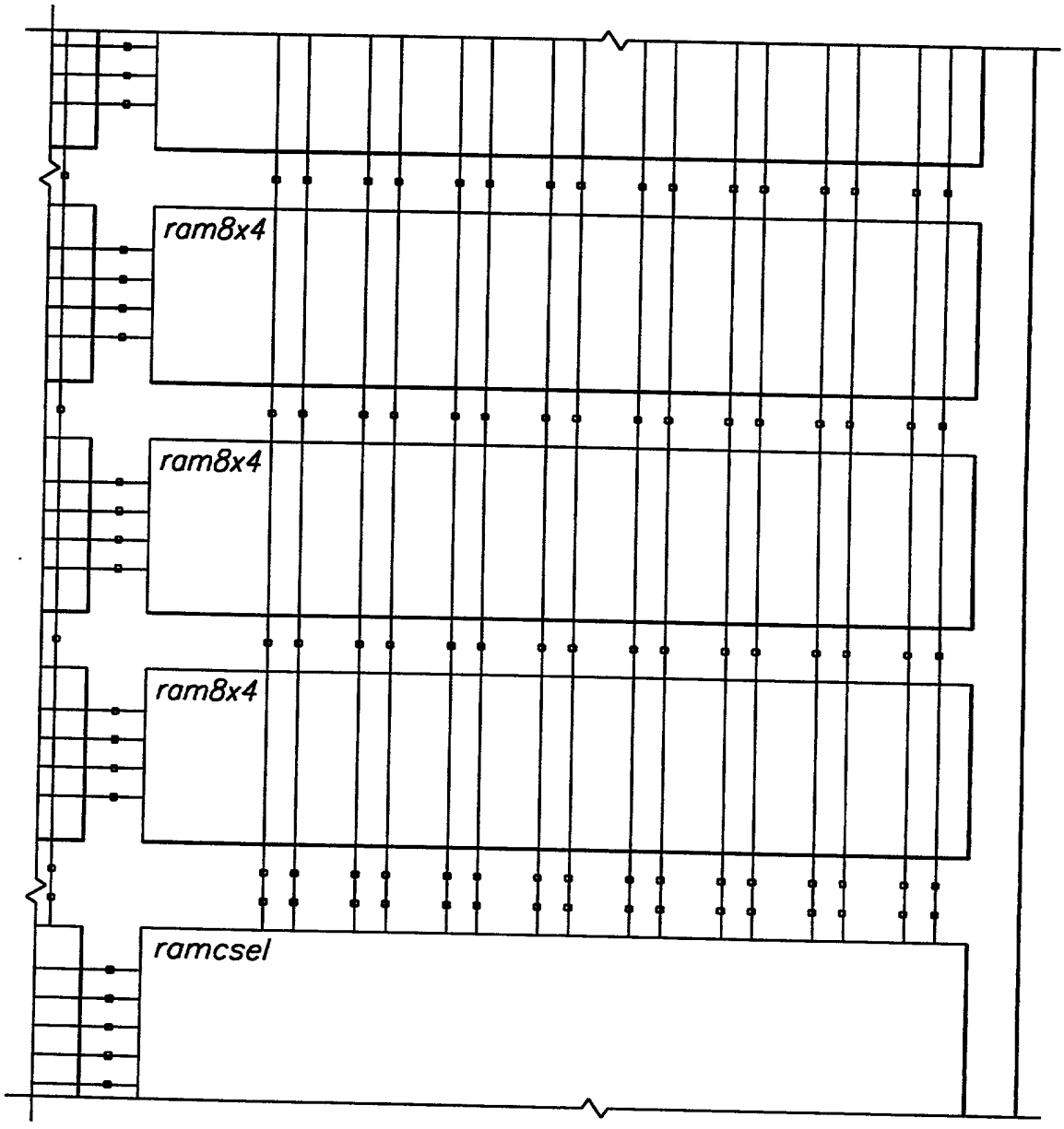
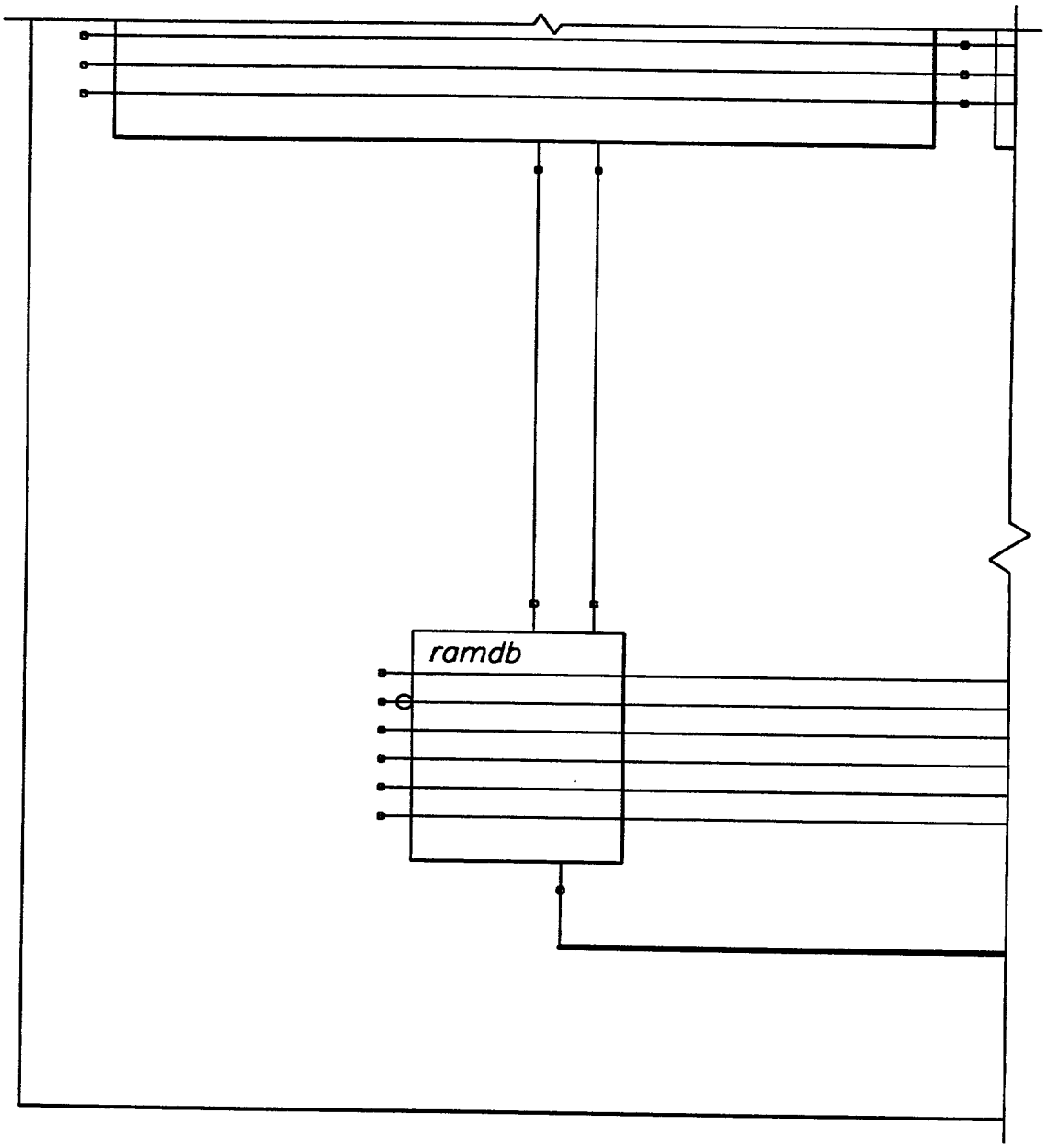


Fig 1.03DH

0962206 - 0962206



Фиг 1.03ЕА

Patent 5,952,865

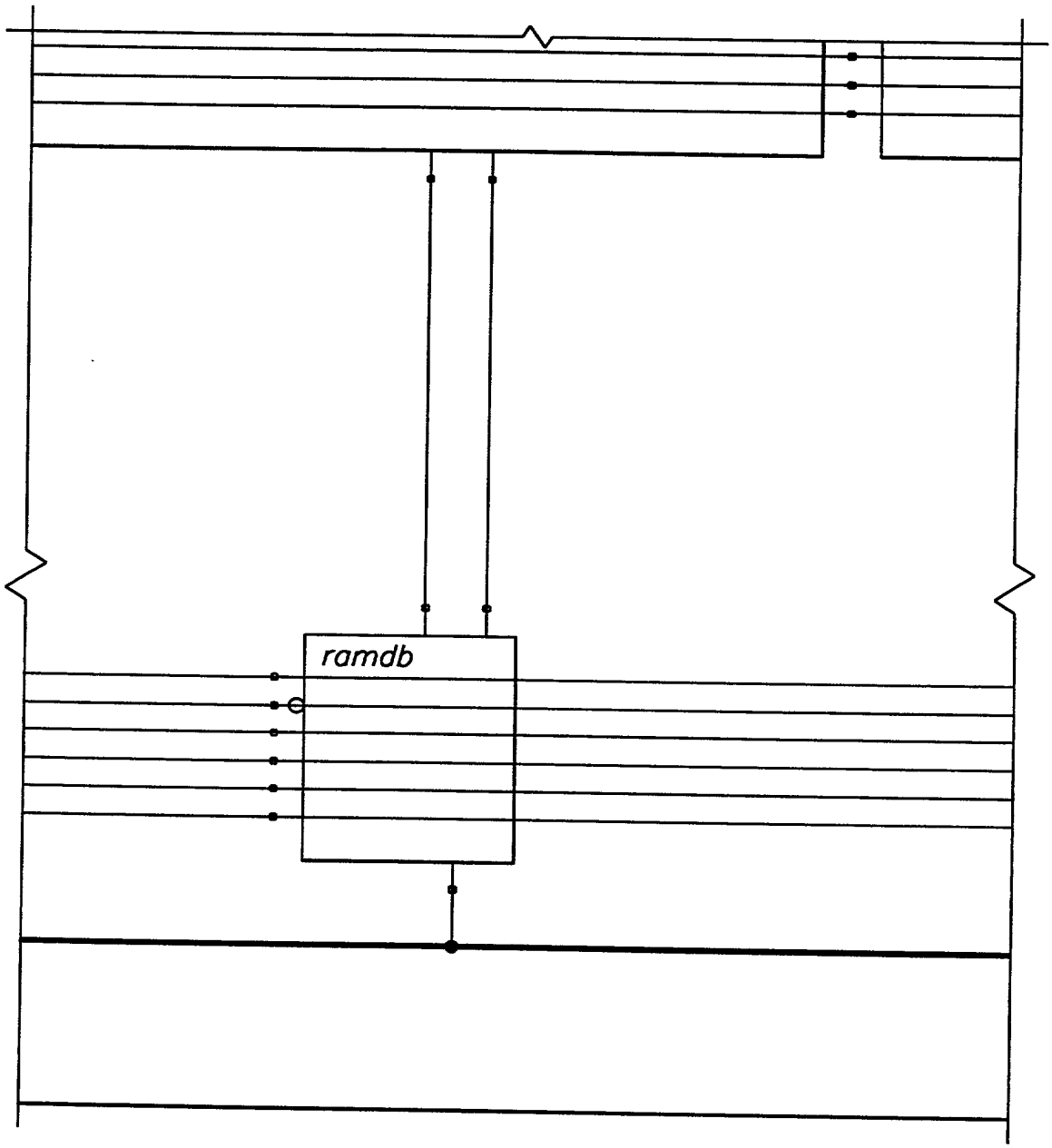


Fig 1.03EB

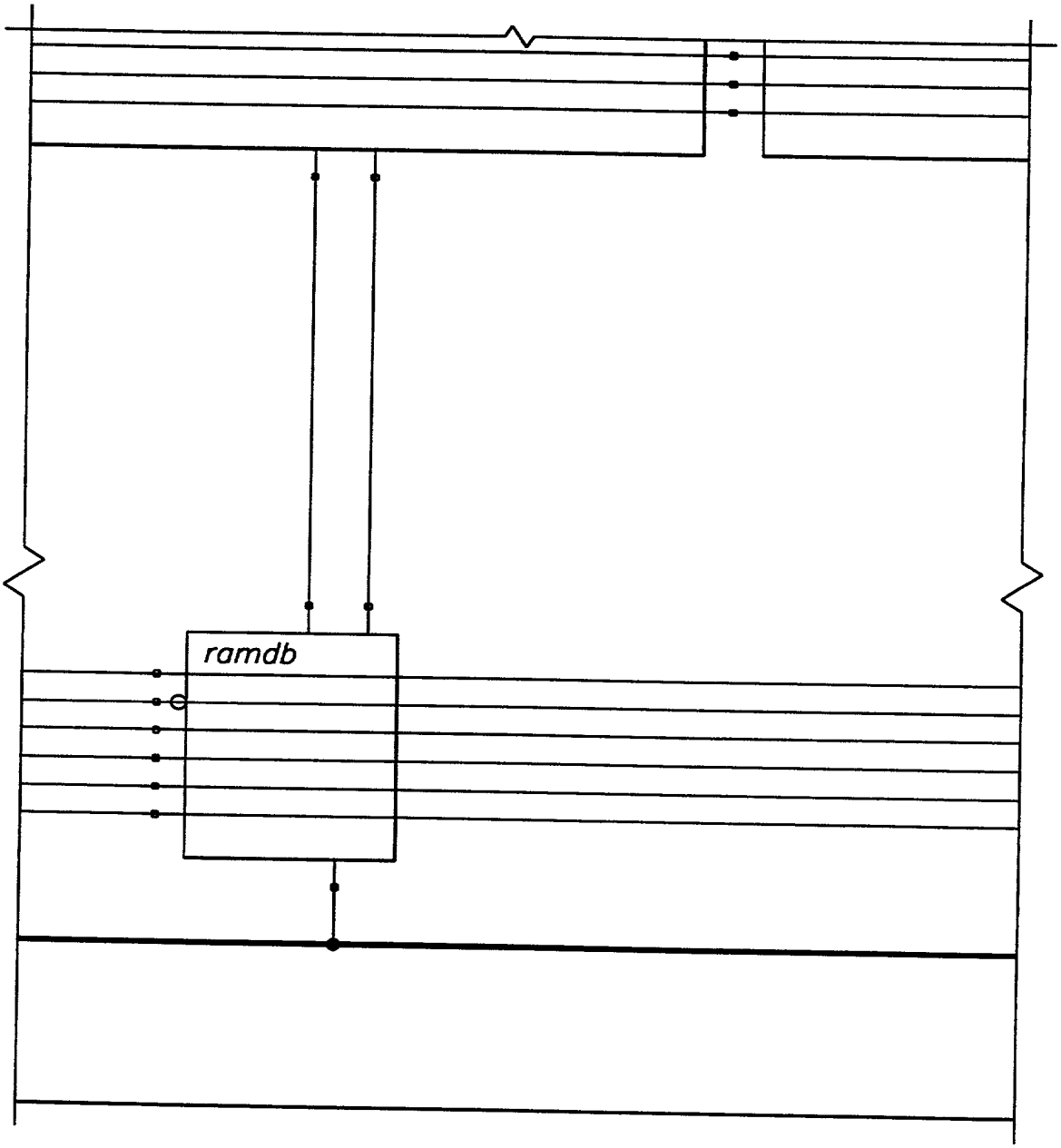


Fig 7.03EC

Patent-6925939

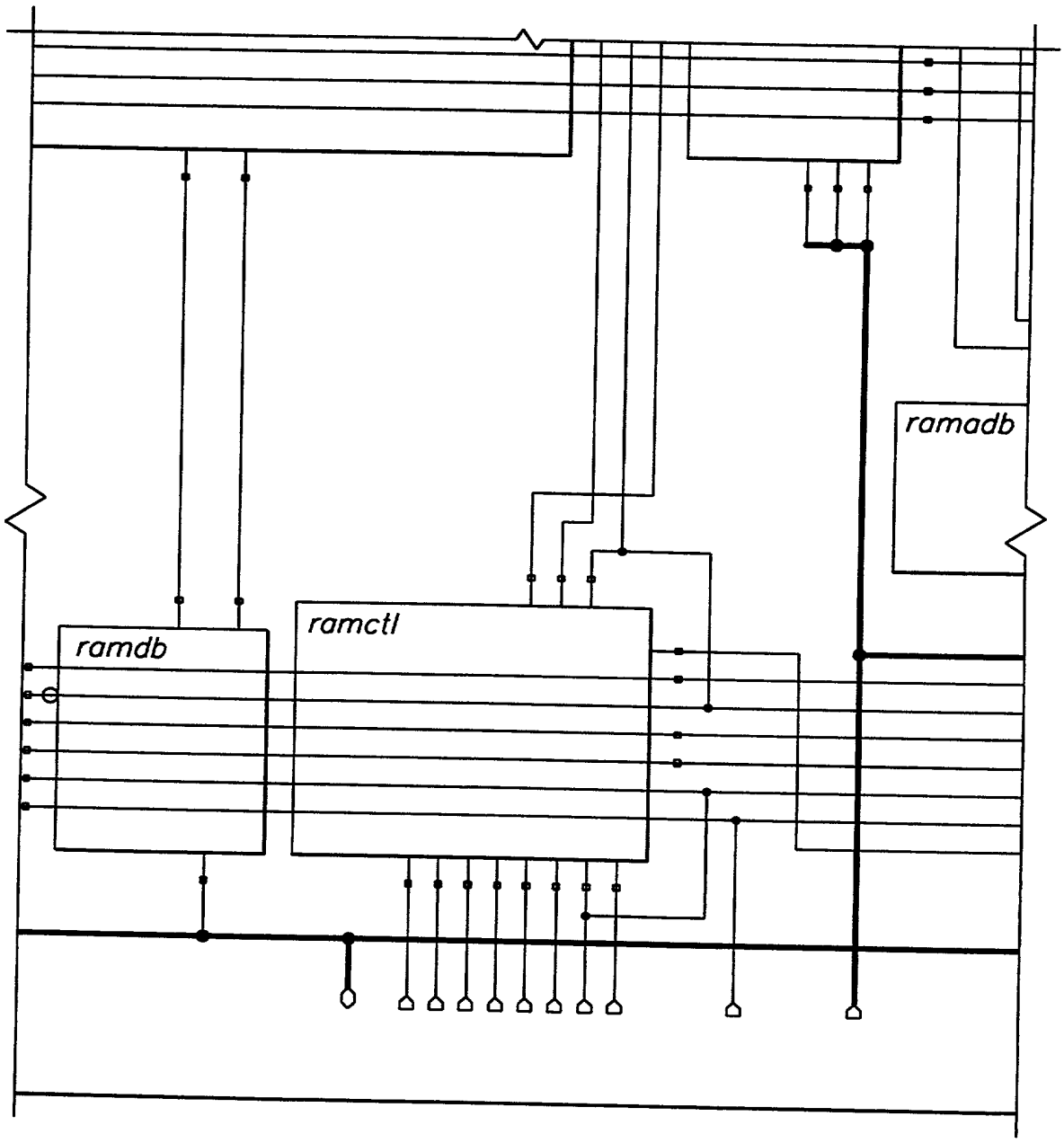


Fig 1.03ED

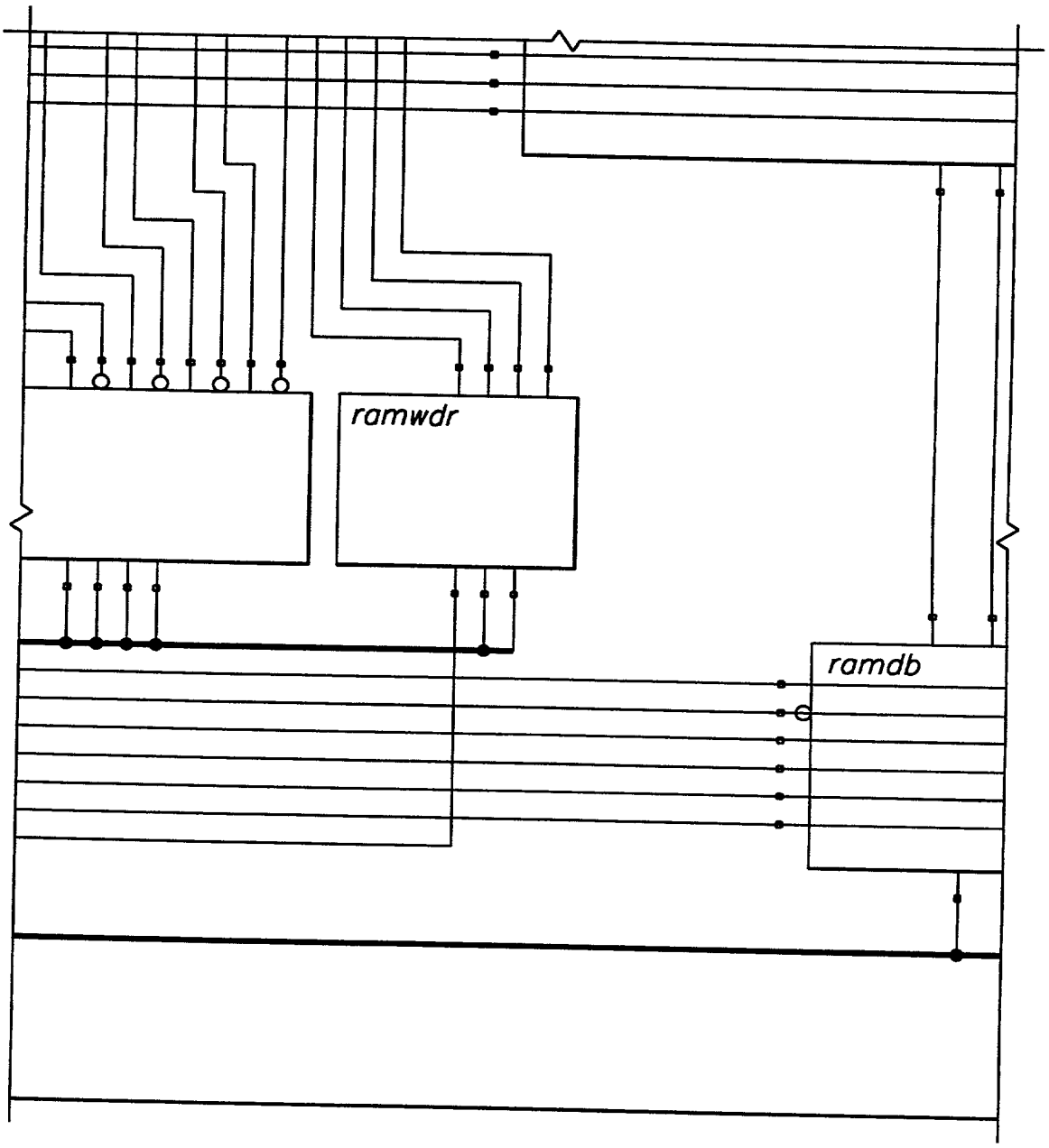


Fig 7.03EE

US 7,596,659 B2

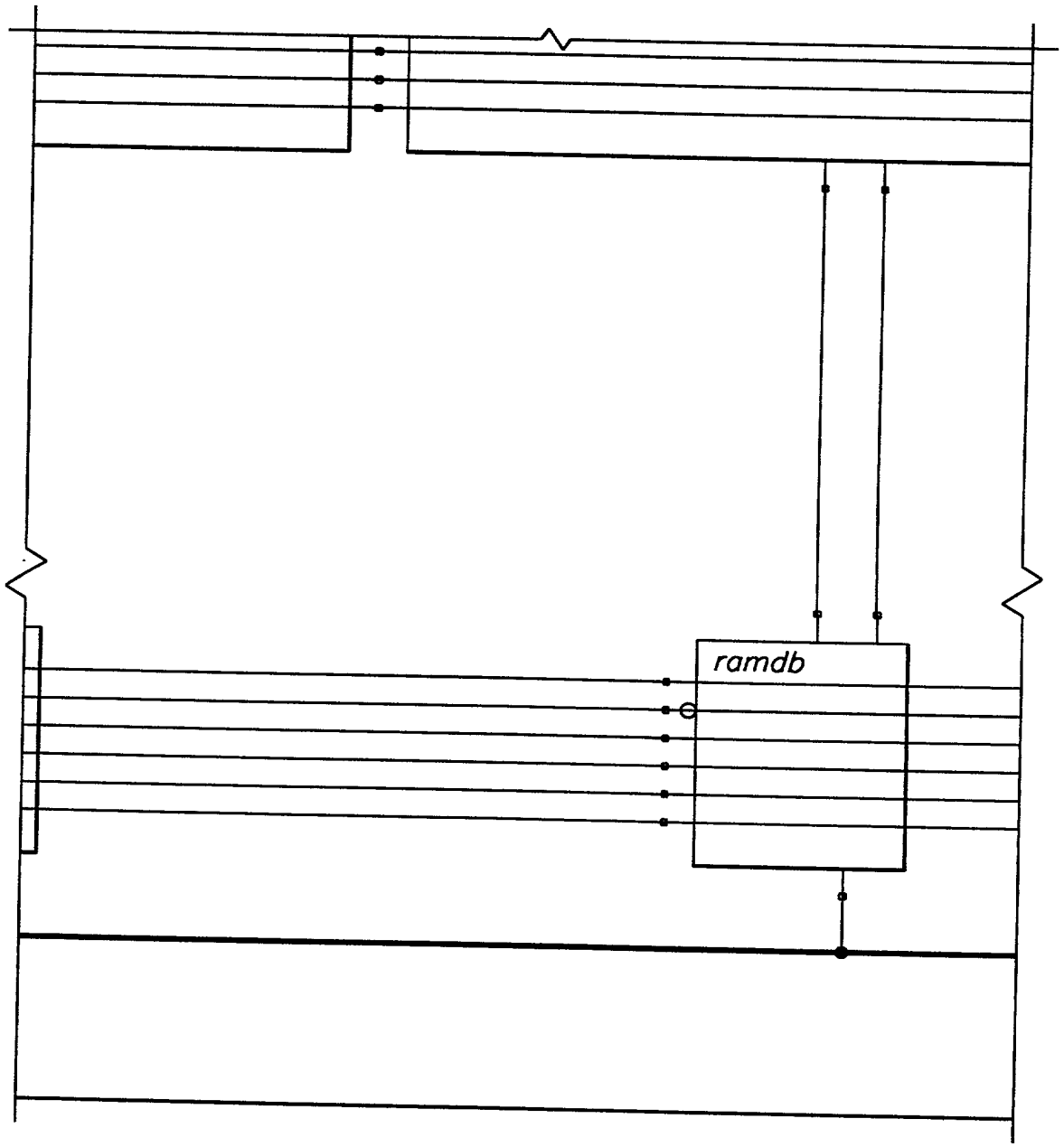


Fig 1.03EF

0562205 - 05/11/01

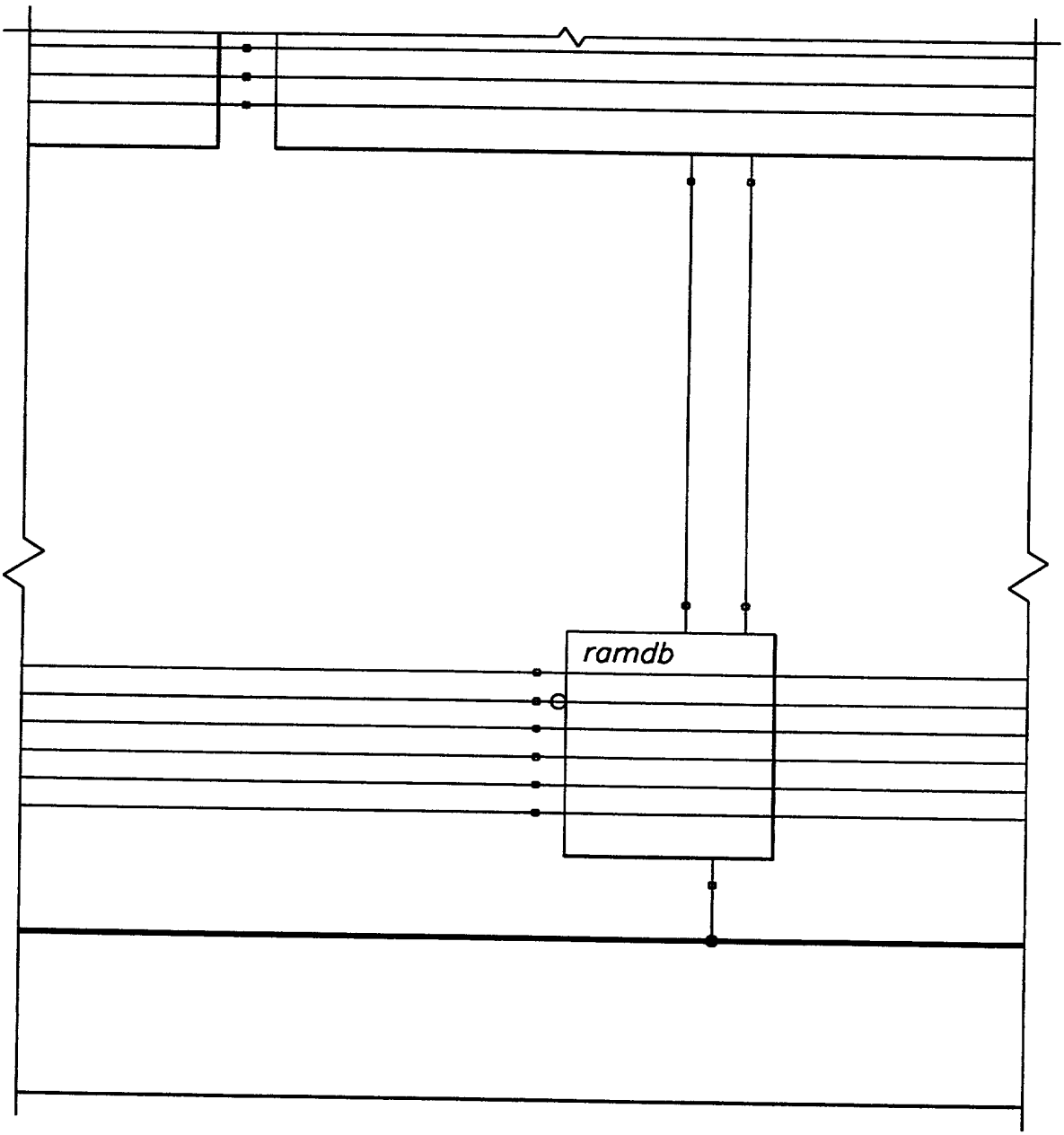
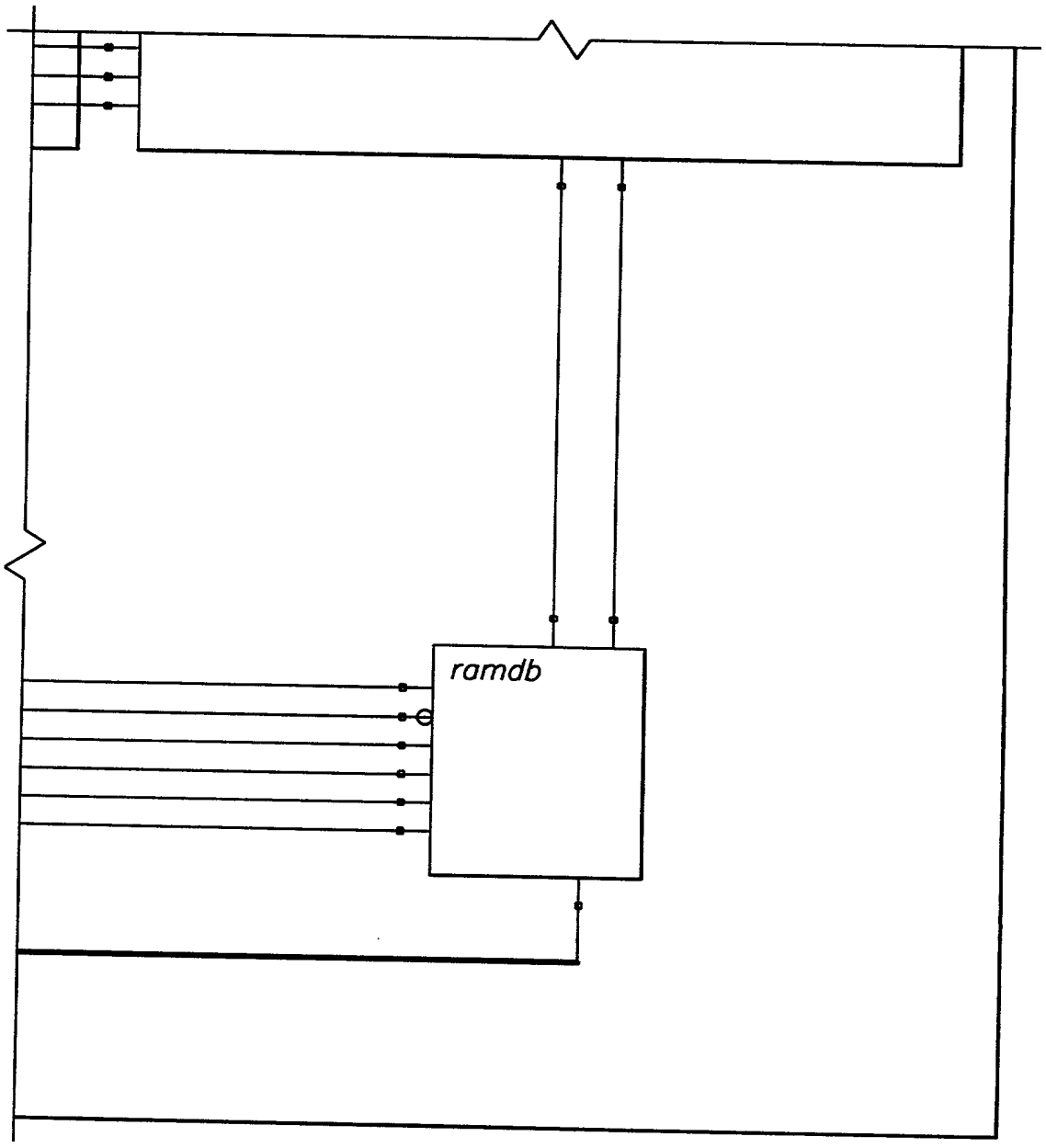


Fig 7.03E6

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Фиг 1.03ЕН

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Document: 2015126040

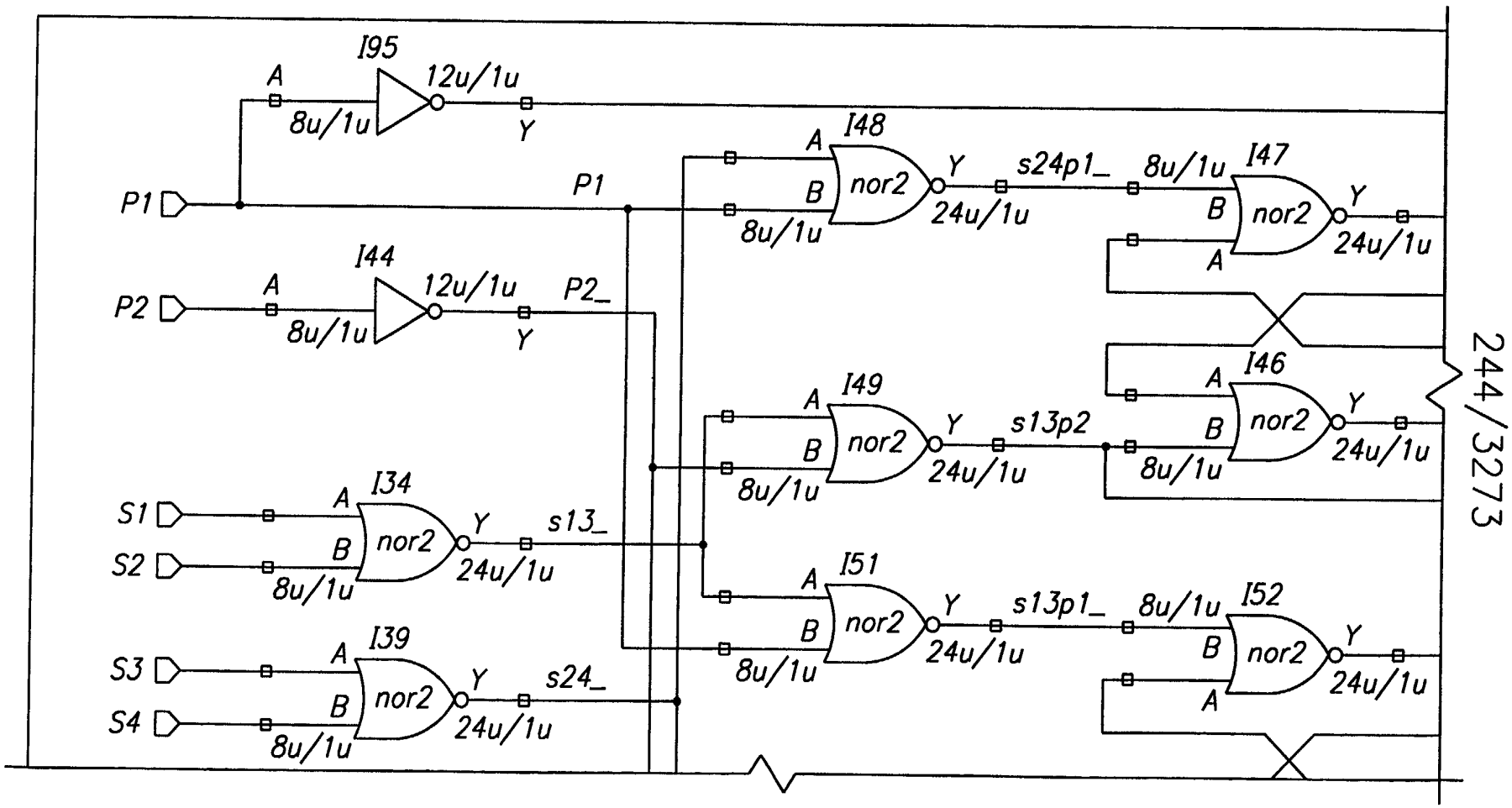

I95
A
8u/1u
12u/1u
Y
P1
P1
I48
A
B
nor2
Y
8u/1u
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s24p1_
8u/1u
I47
B
nor2
Y
A
24u/1u
I44
P2
A
8u/1u
12u/1u
P2_
Y
I46
A
B
nor2
Y
8u/1u
24u/1u
I49
A
B
nor2
Y
8u/1u
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s13p2
S1
S2
I34
A
B
nor2
Y
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I51
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244/3273

Fig 1.0300AA

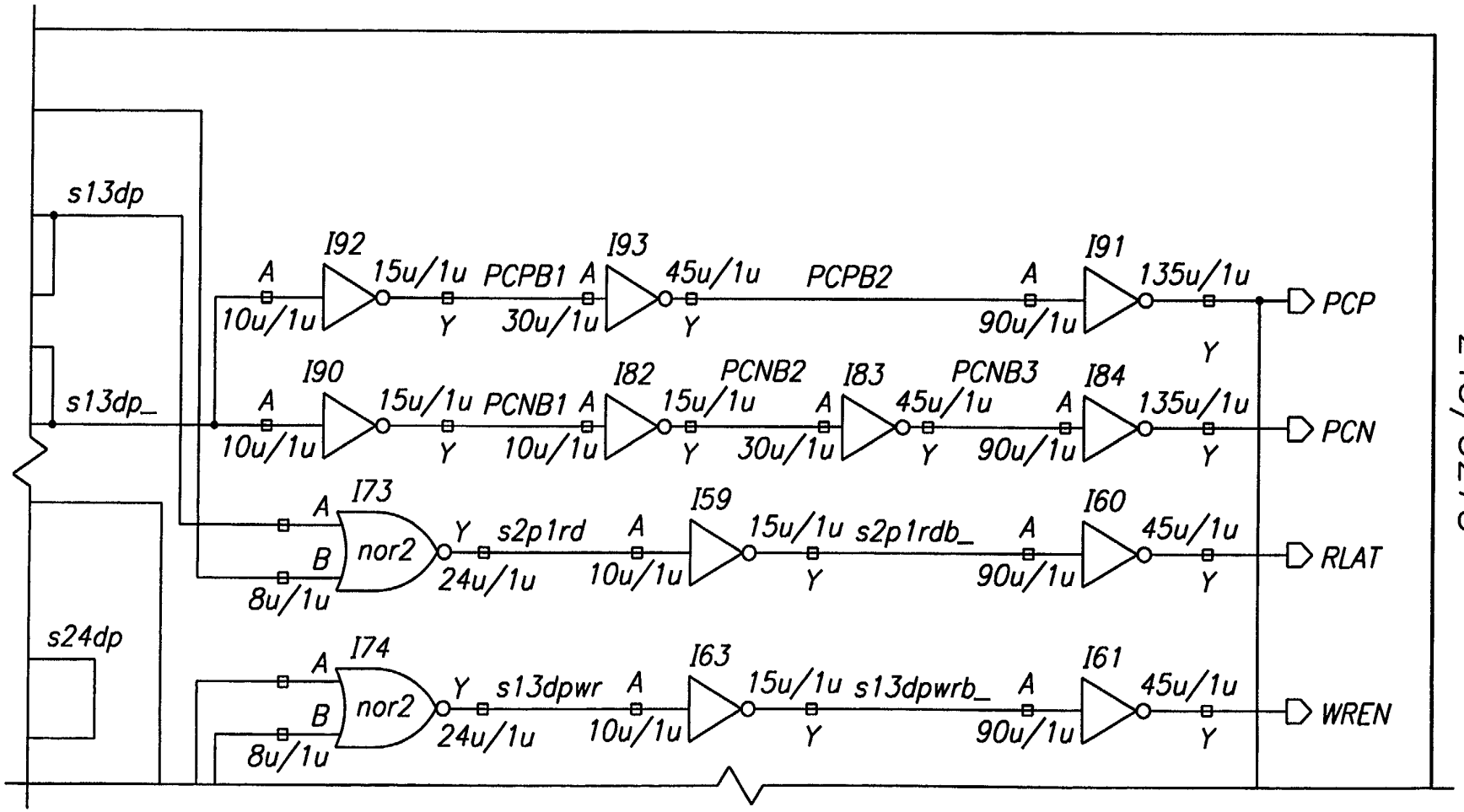


Fig 1.0300IAB

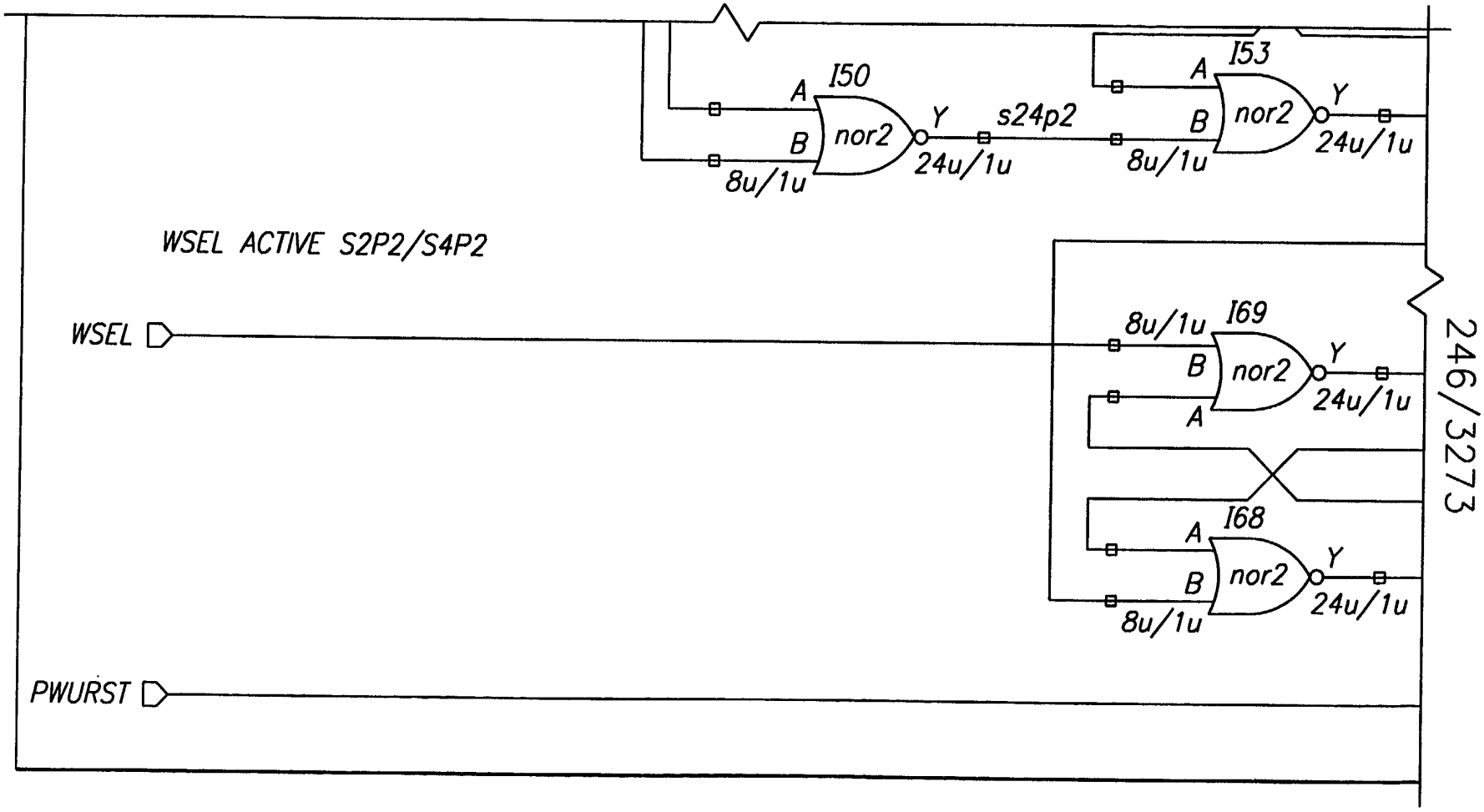
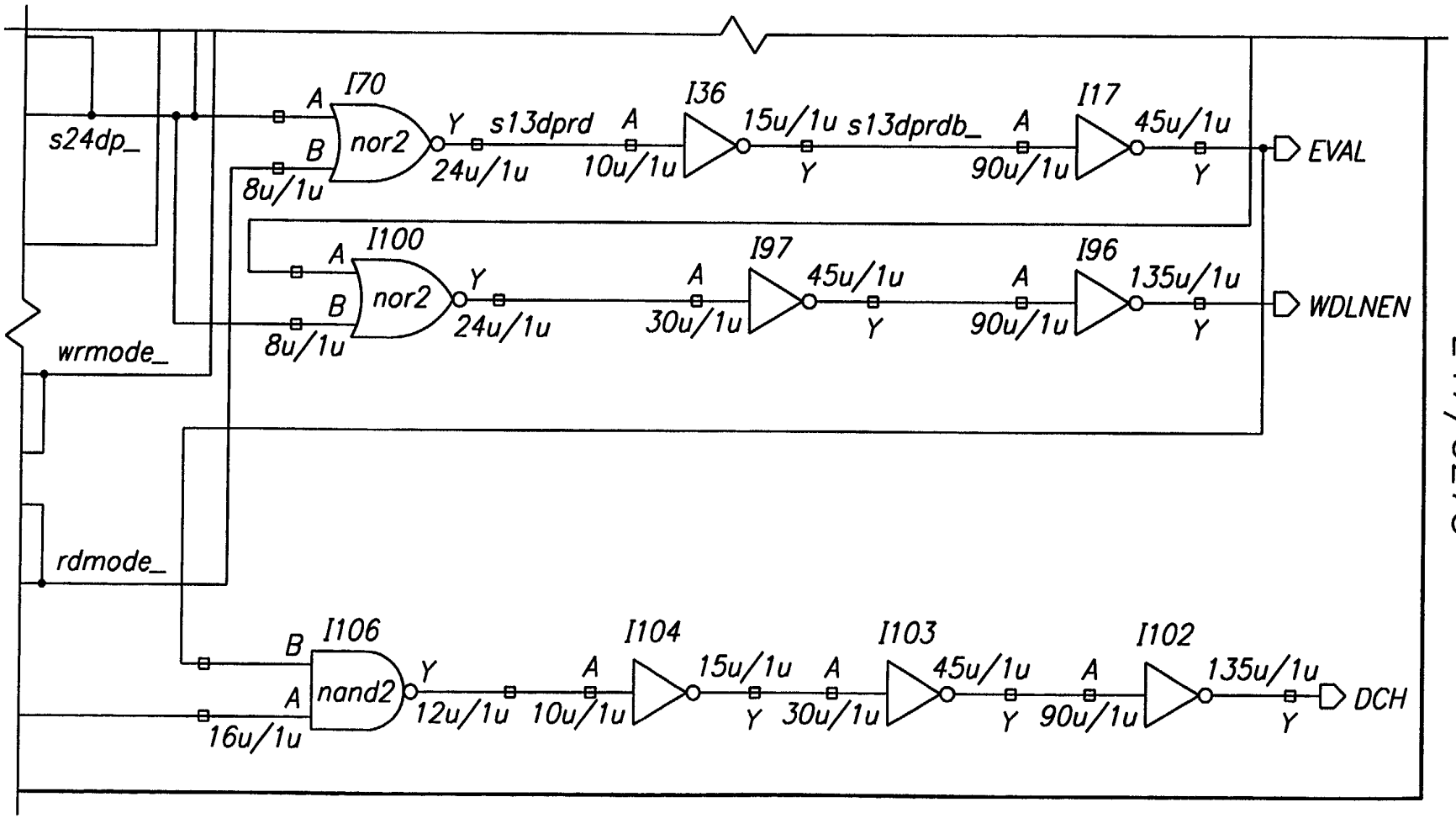


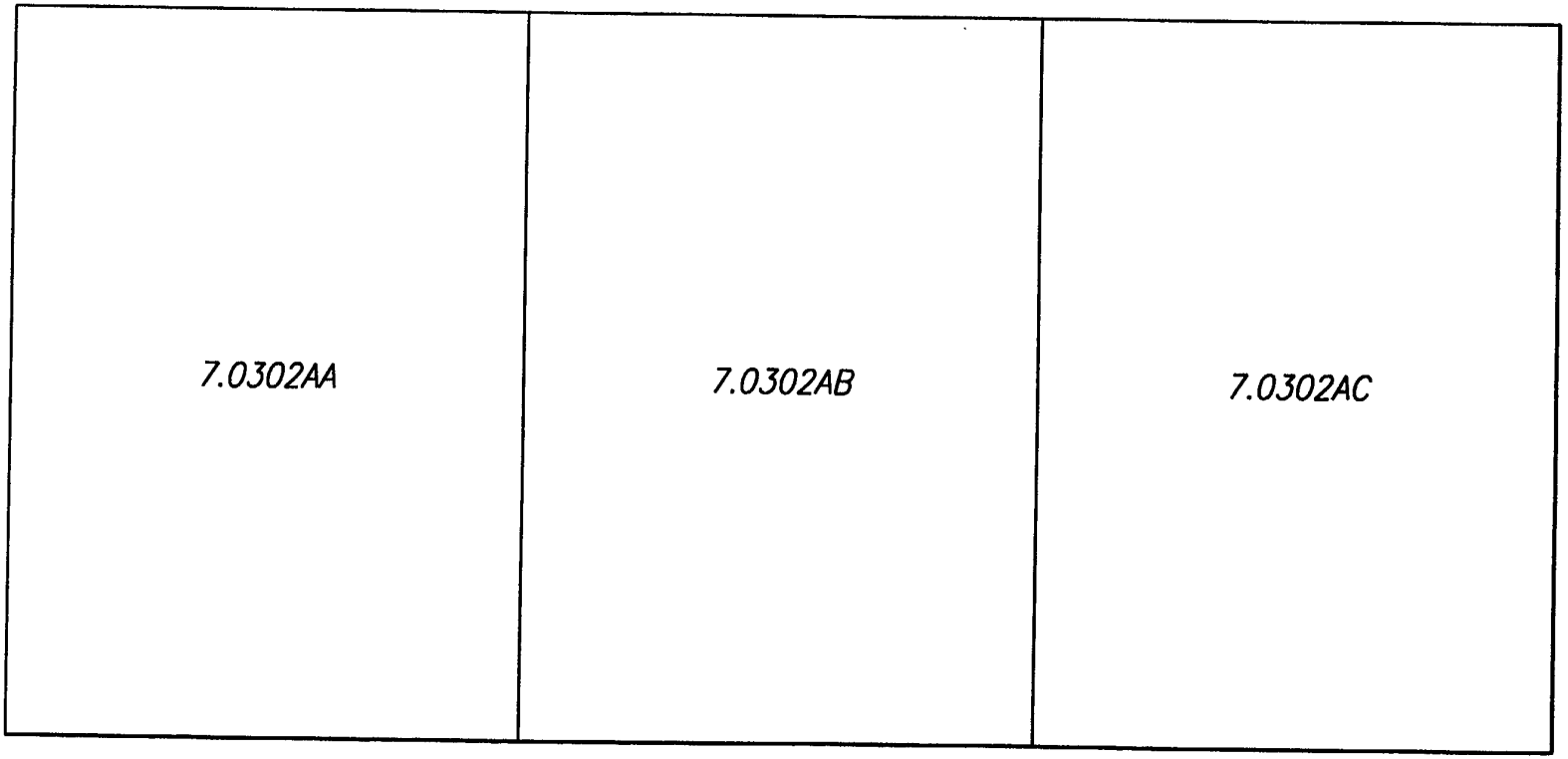
Fig 1.0300188A



247/3273

Fig 1.0300188

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248/3273

Fig 7.0302

0952595-050714

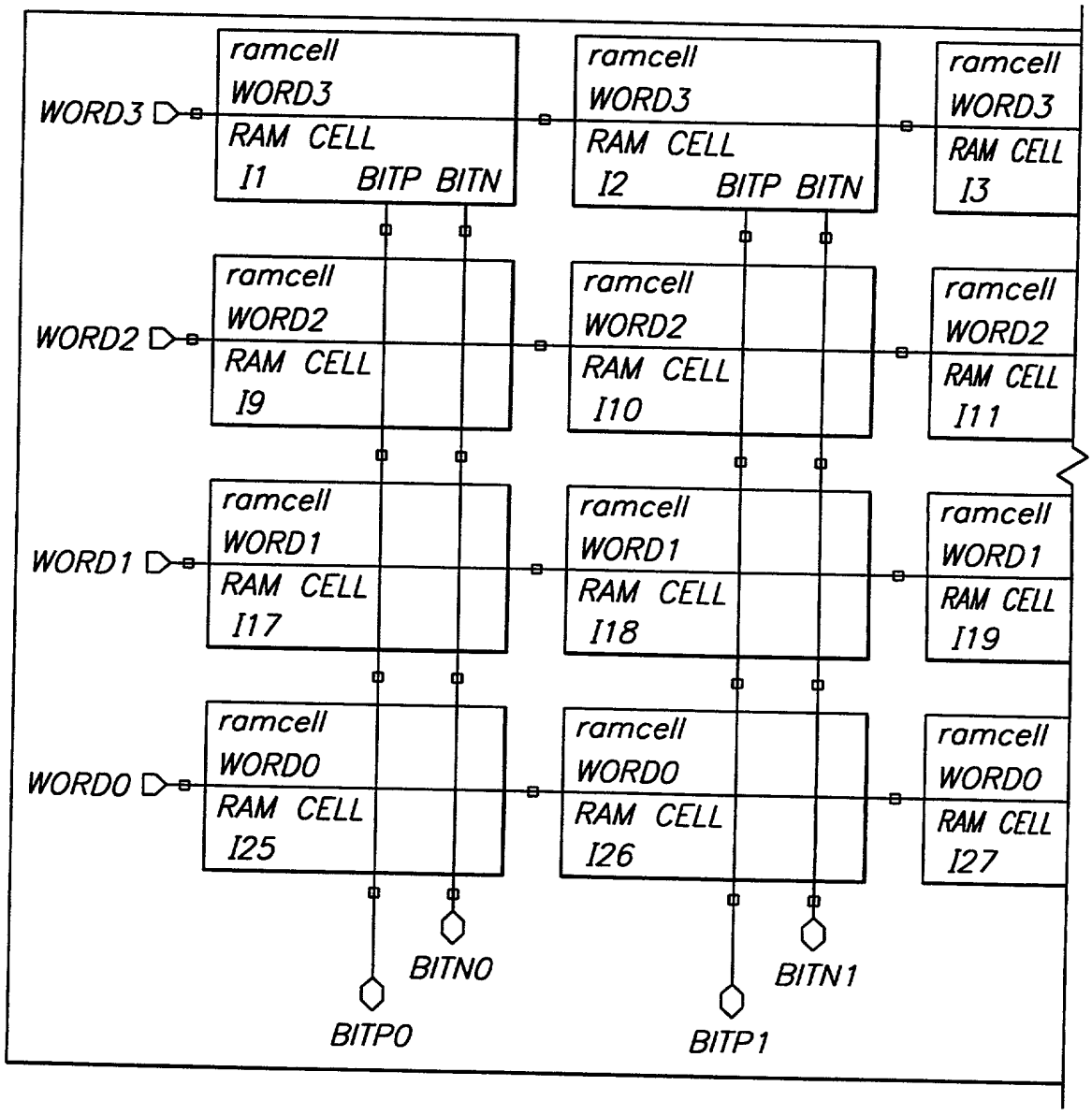


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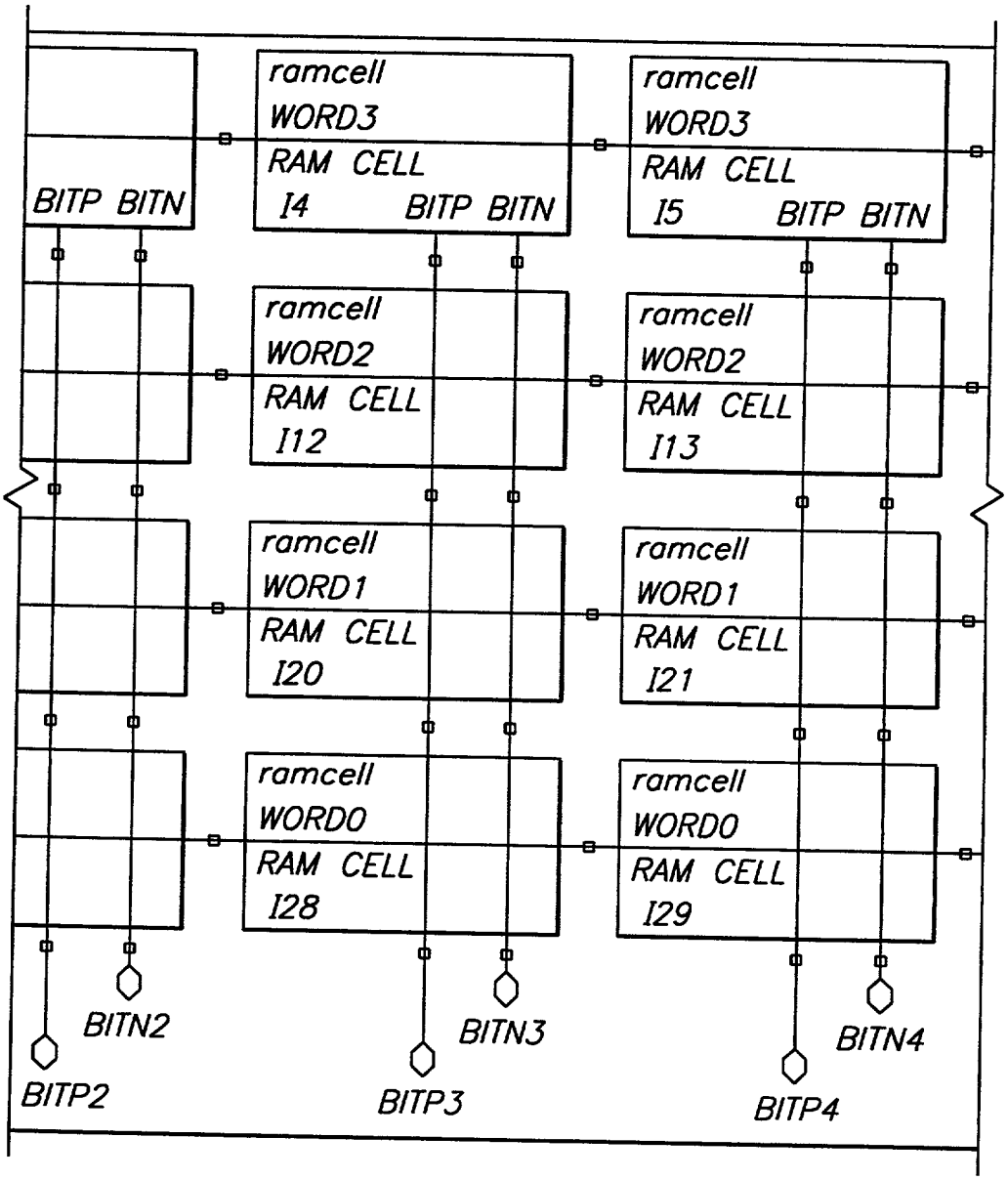


Fig 1.0302AB

09622063 - 05-11-01

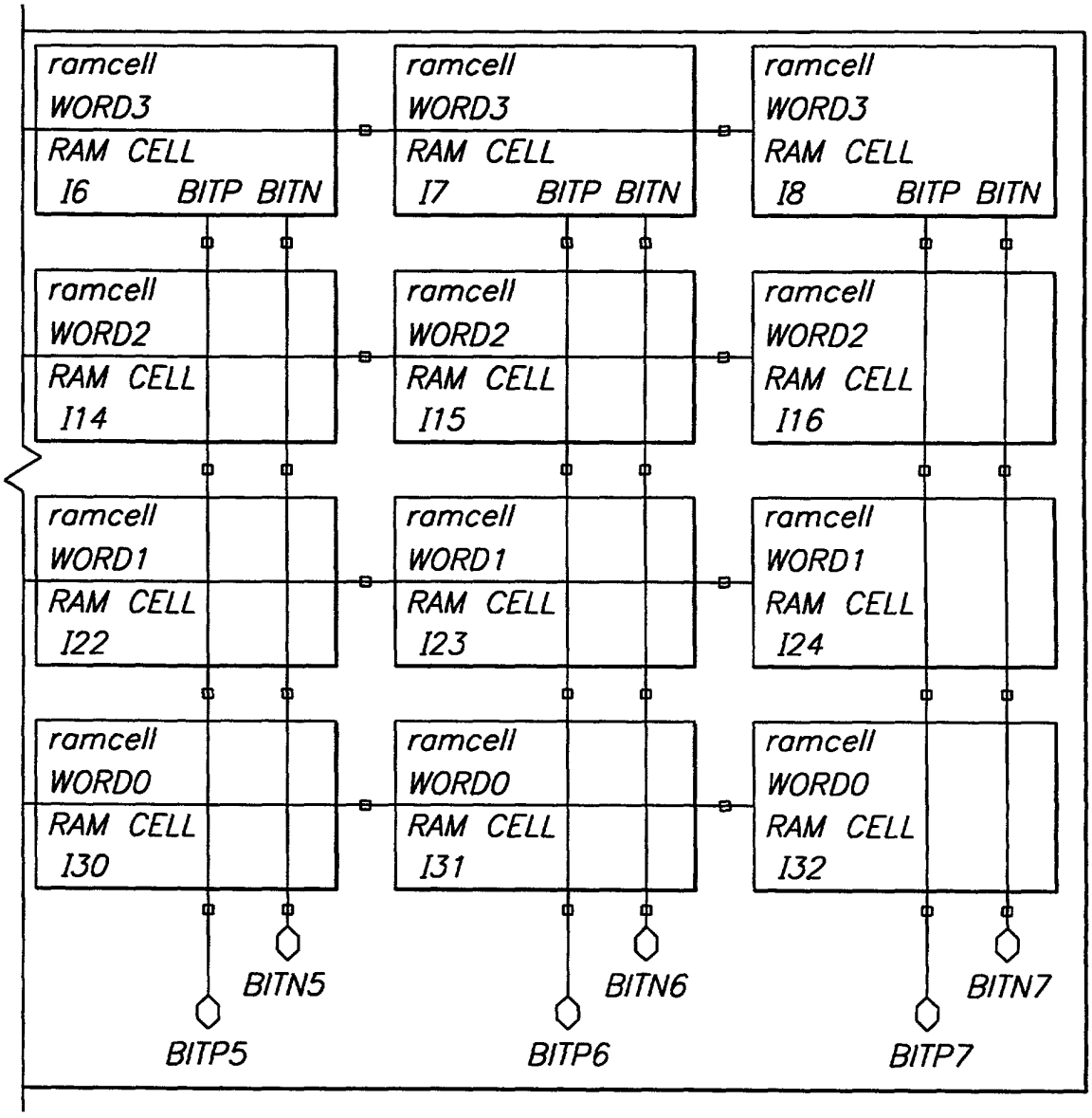
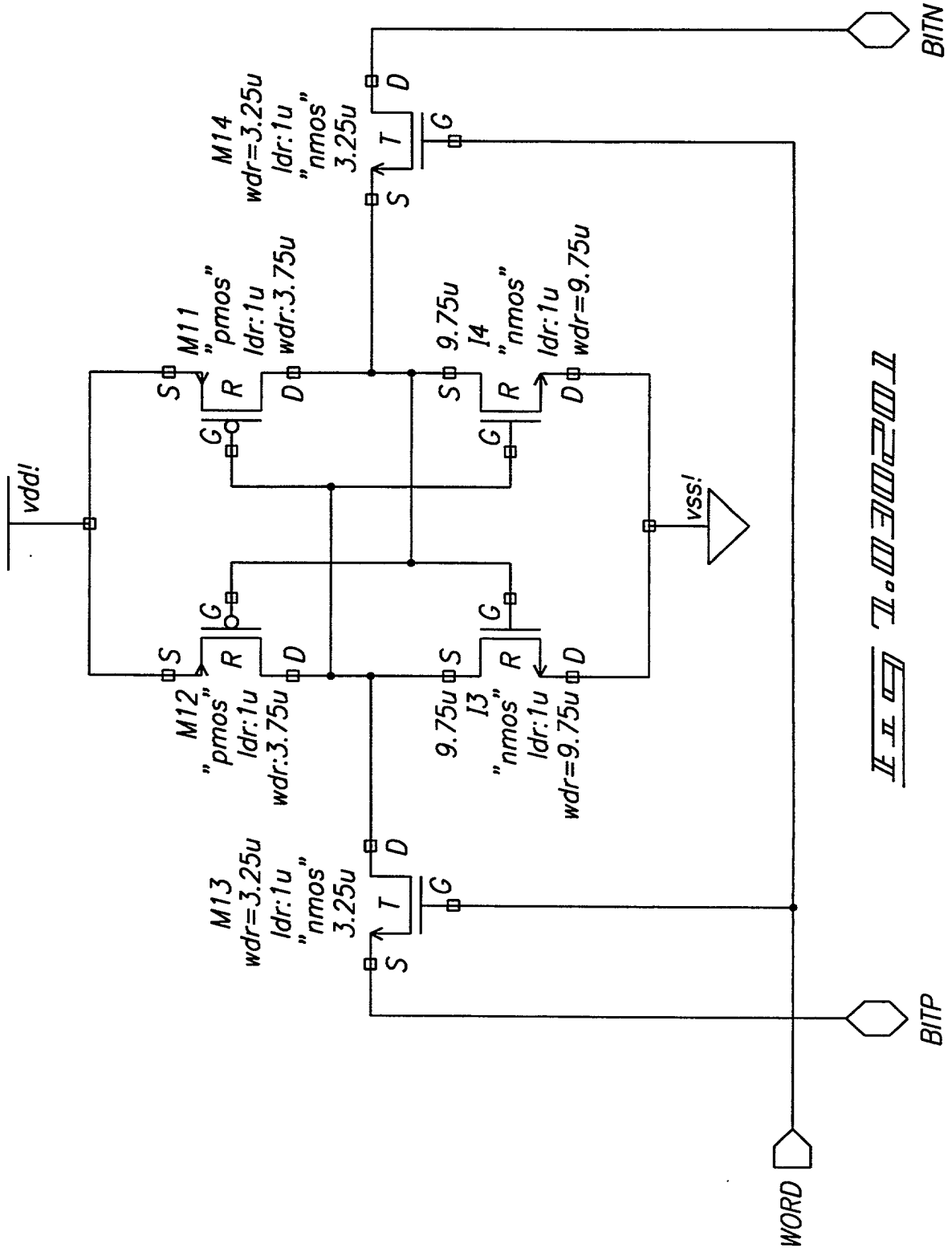

ramcell
WORD3
RAM CELL
I6 BITP BITN
ramcell
WORD3
RAM CELL
I7 BITP BITN
ramcell
WORD3
RAM CELL
I8 BITP BITN
ramcell
WORD2
RAM CELL
I14
ramcell
WORD2
RAM CELL
I15
ramcell
WORD2
RAM CELL
I16
ramcell
WORD1
RAM CELL
I22
ramcell
WORD1
RAM CELL
I23
ramcell
WORD1
RAM CELL
I24
ramcell
WORD0
RAM CELL
I30
ramcell
WORD0
RAM CELL
I31
ramcell
WORD0
RAM CELL
I32
BITN5
BITN6
BITN7
BITP5
BITP6
BITP7

Fig 1.0302AC


BITN
BITP
WORD
vdd!
vss!
M11 "pmos" ldr:1u wdr:3.75u
M12 "pmos" ldr:1u wdr:3.75u
M13 wdr=3.25u ldr:1u "nmos" 3.25u
M14 wdr=3.25u ldr:1u "nmos" 3.25u
I3 "nmos" ldr:1u wdr=9.75u
I4 "nmos" ldr:1u wdr=9.75u
9.75u
9.75u
S
R
D
G
T

TOTT90"E9022860

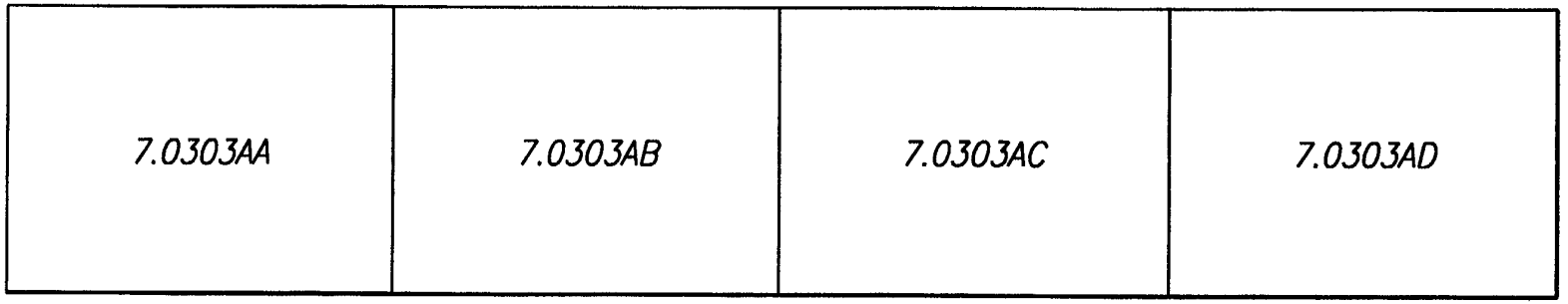


Fig 7.0303

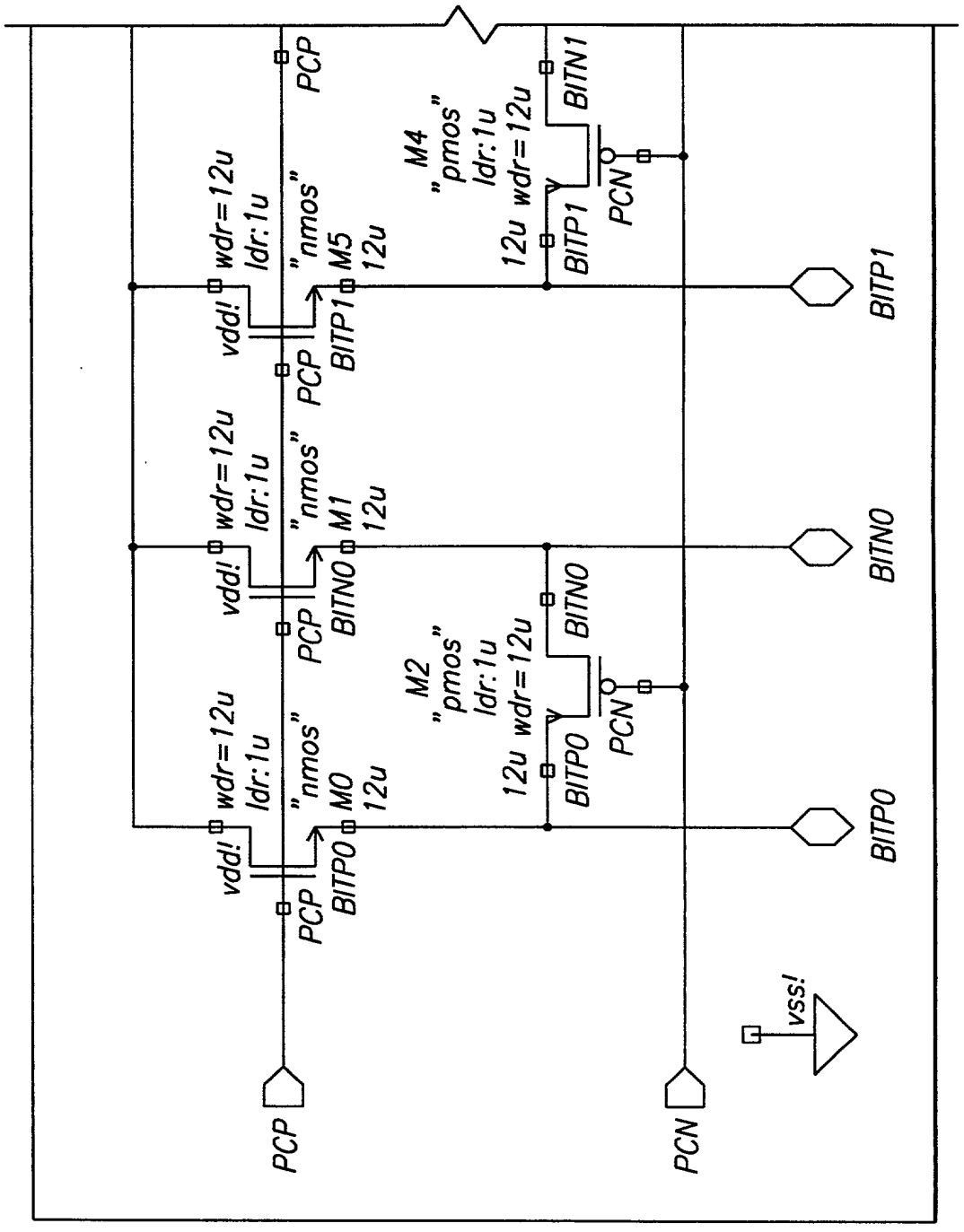

PCP
PCN
vss!
vdd!
"nmos"
"pmos"
wdr=12u
ldr:1u
12u
M0
M1
M2
M4
M5
BITP0
BITP1
BITN0
BITN1
PCP
PCN

Fig. 11

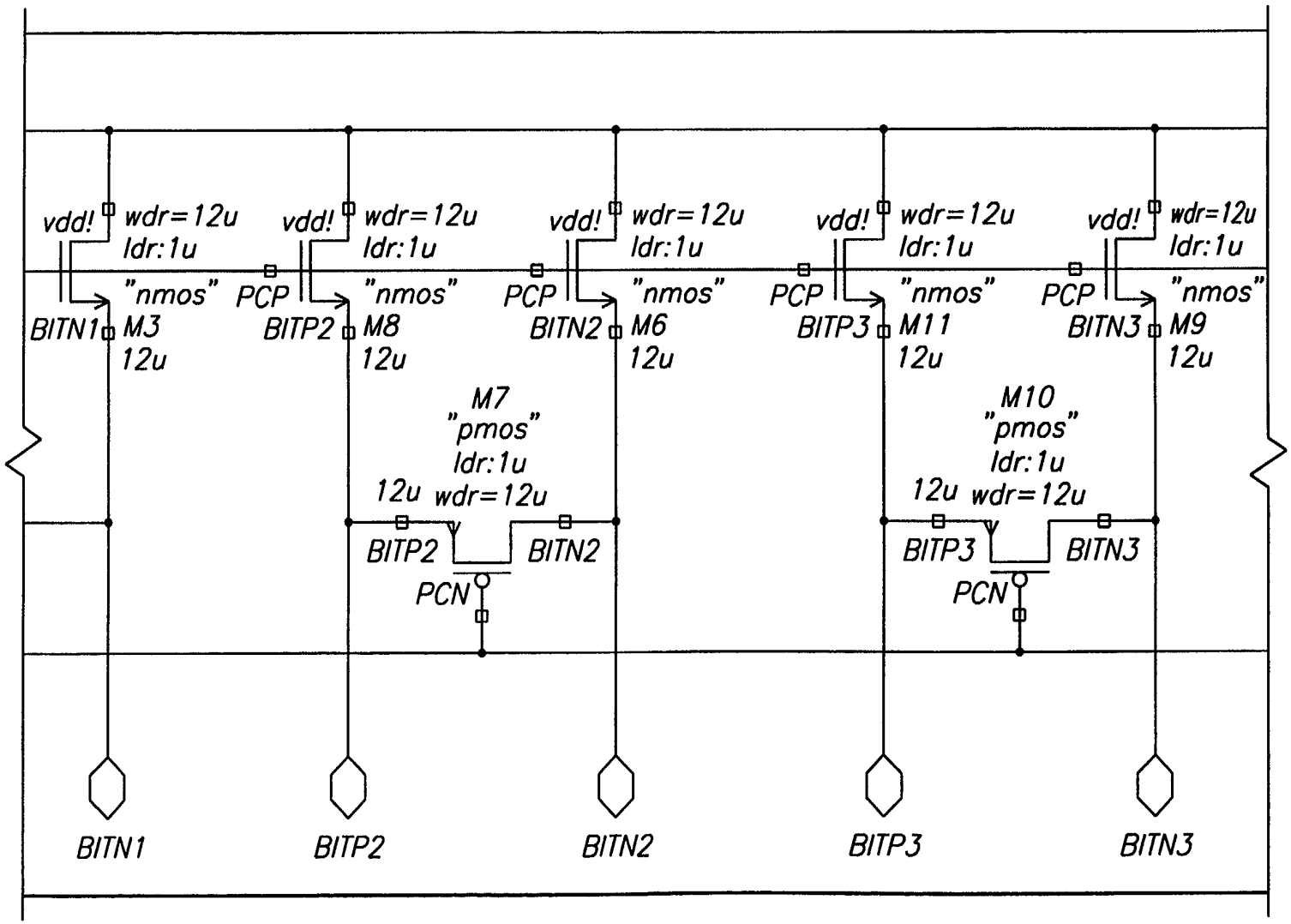

vdd!
wdr=12u
ldr:1u
"nmos"
PCP
BITN1
M3
12u
BITP2
M8
12u
BITN2
M6
12u
BITP3
M11
12u
BITN3
M9
12u
M7
"pmos"
ldr:1u
12u
wdr=12u
BITP2
BITN2
PCN
M10
"pmos"
ldr:1u
12u
wdr=12u
BITP3
BITN3
PCN
BITN1
BITP2
BITN2
BITP3
BITN3

Fig. 1.0303AB

JP2017504960A

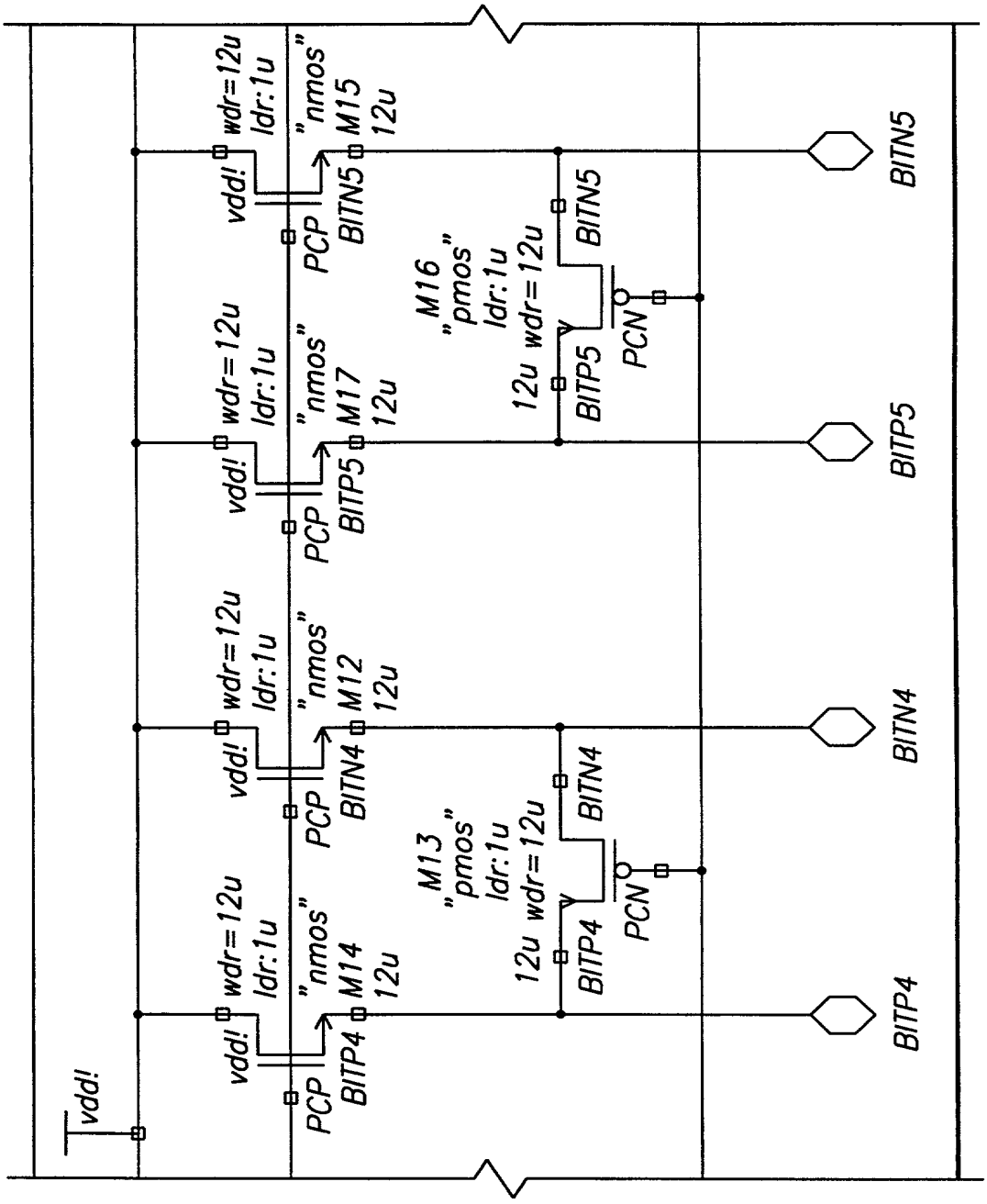
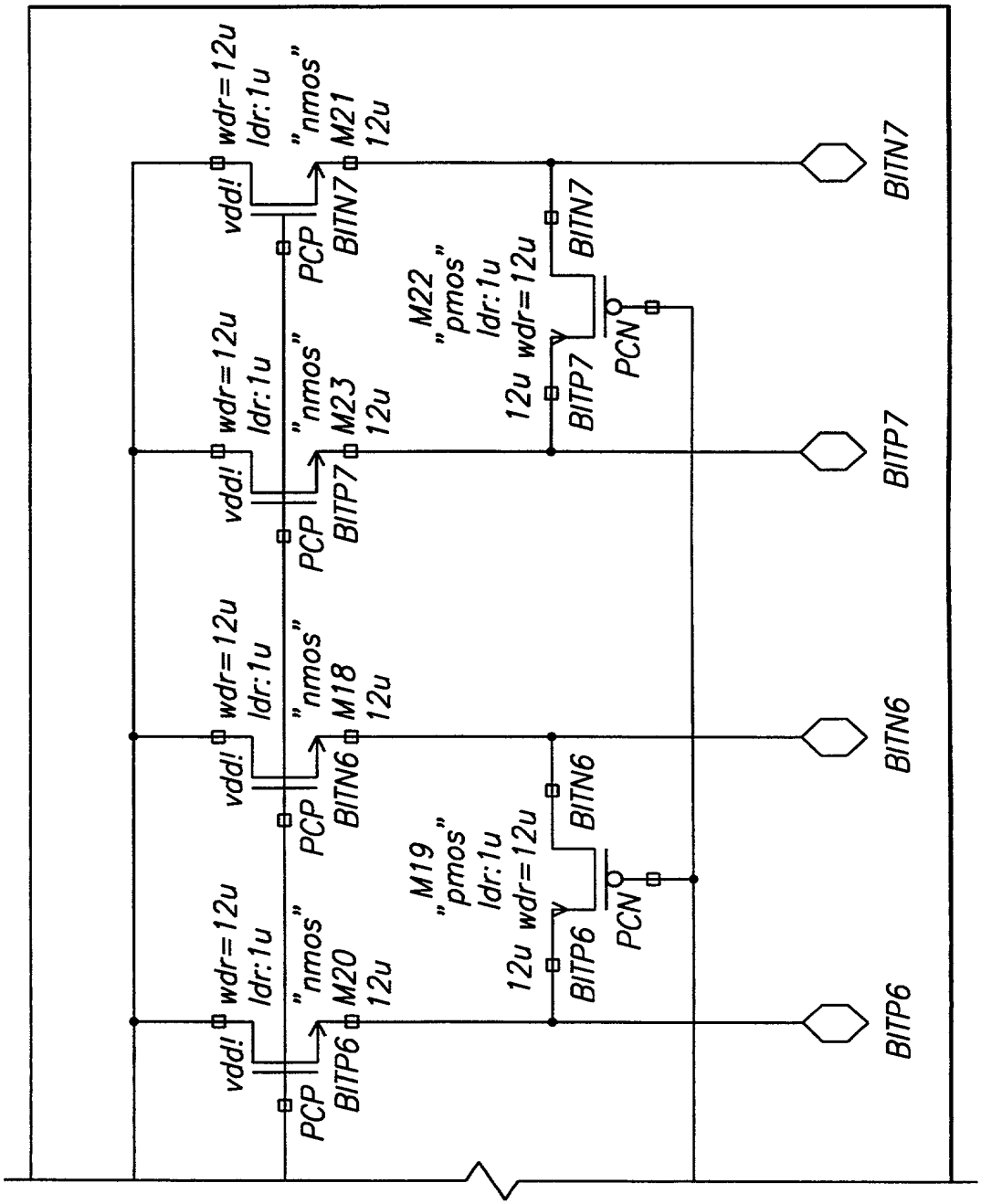
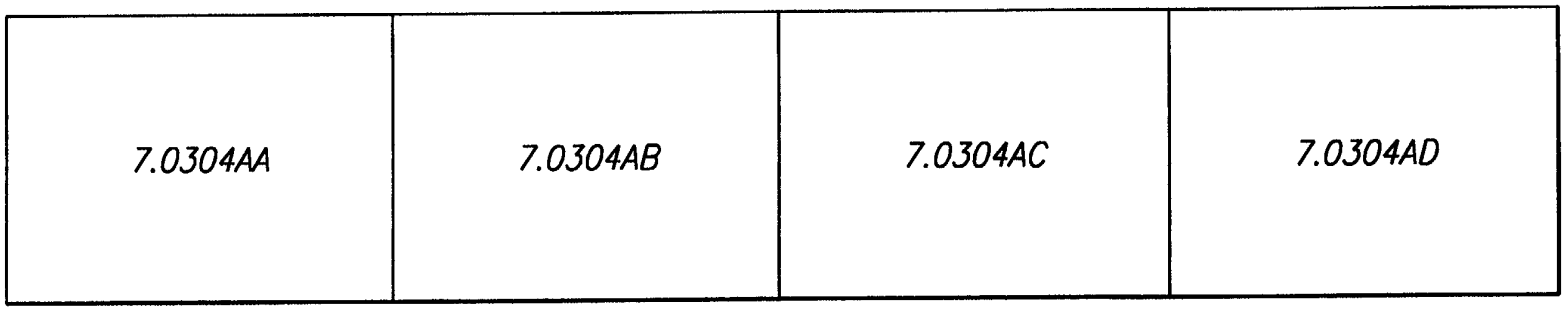


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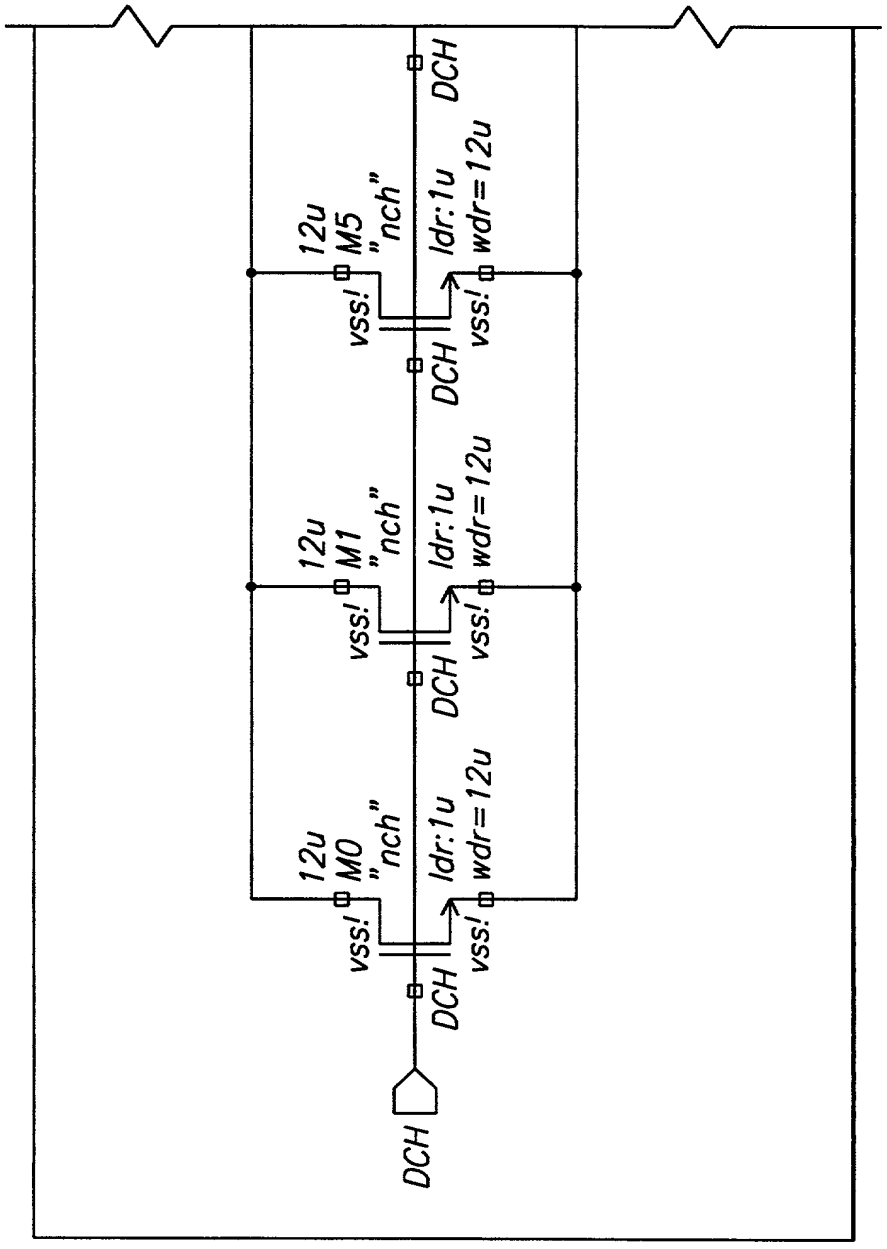

vdd!
wdr=12u
ldr:1u
"nmos"
M21
12u
BITN7
PCP
M22
"pmos"
ldr:1u
12u wdr=12u
BITP7
PCN
M23
M18
BITN6
M19
M20
BITP6
BITN7
BITP7
BITN6
BITP6

ФИГ. 11

ГОСТ 90" 2902-2860



Фиг 7.0304



ФИГ. 7

EP 4 509 926 A1

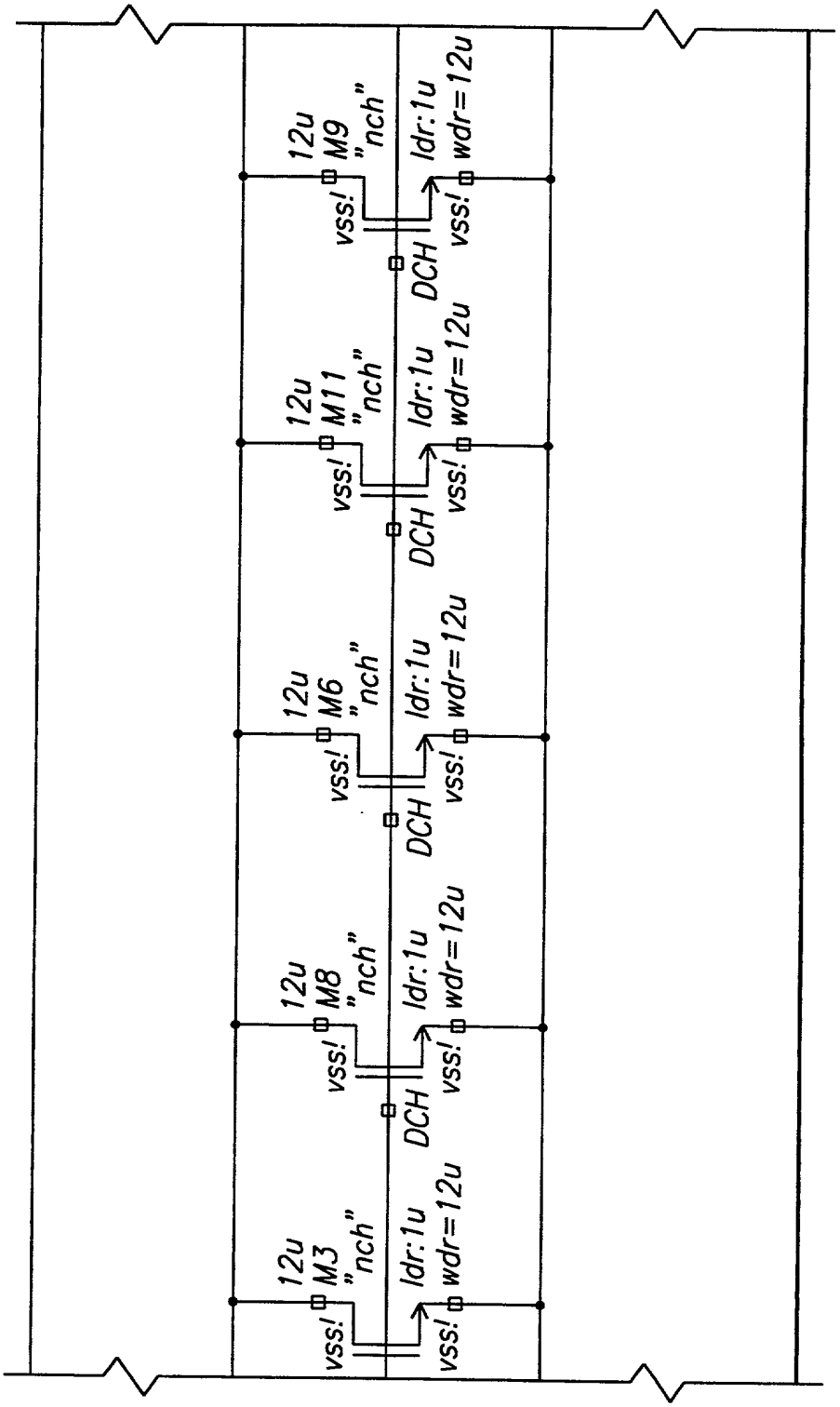


FIG 5

FOLLOW-ERGRESS

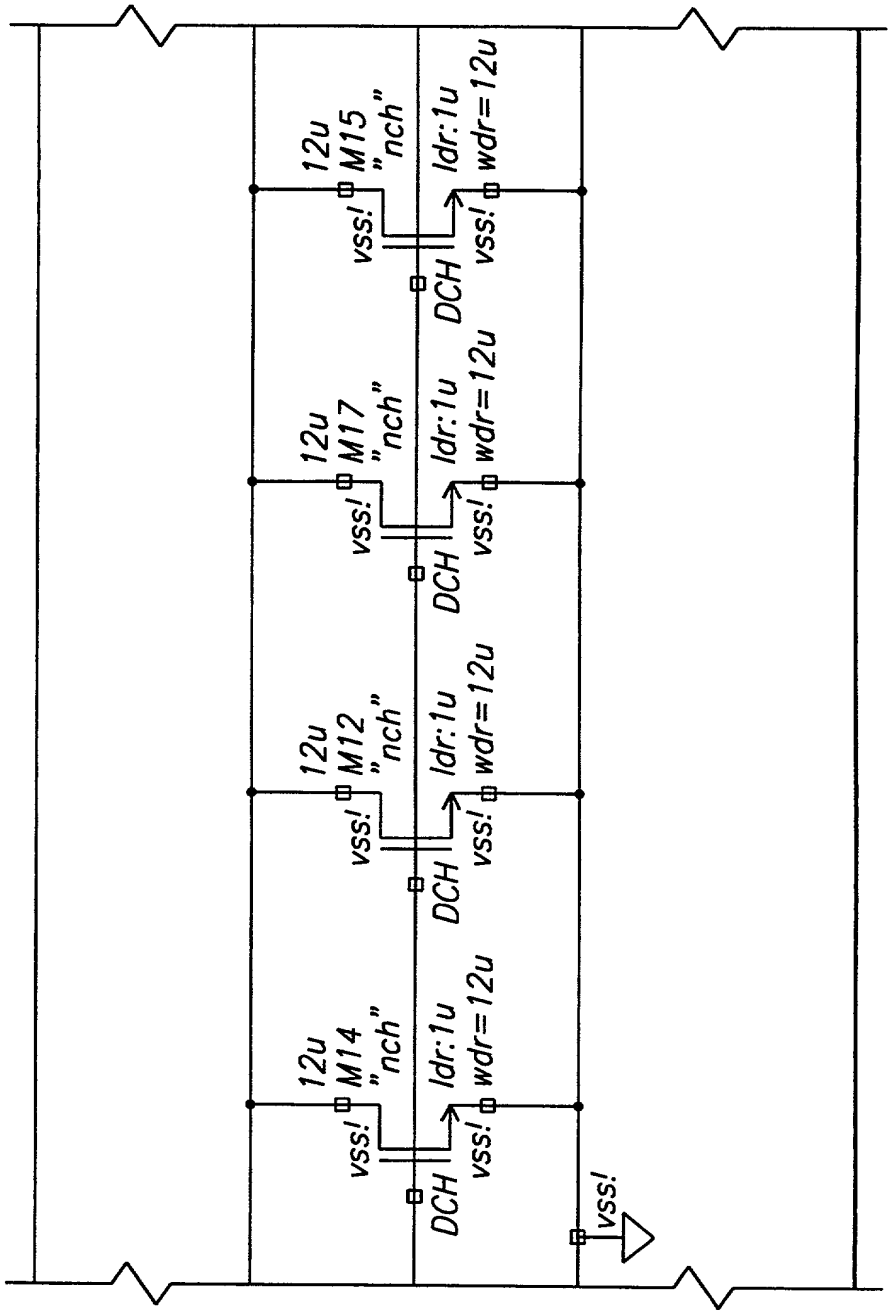
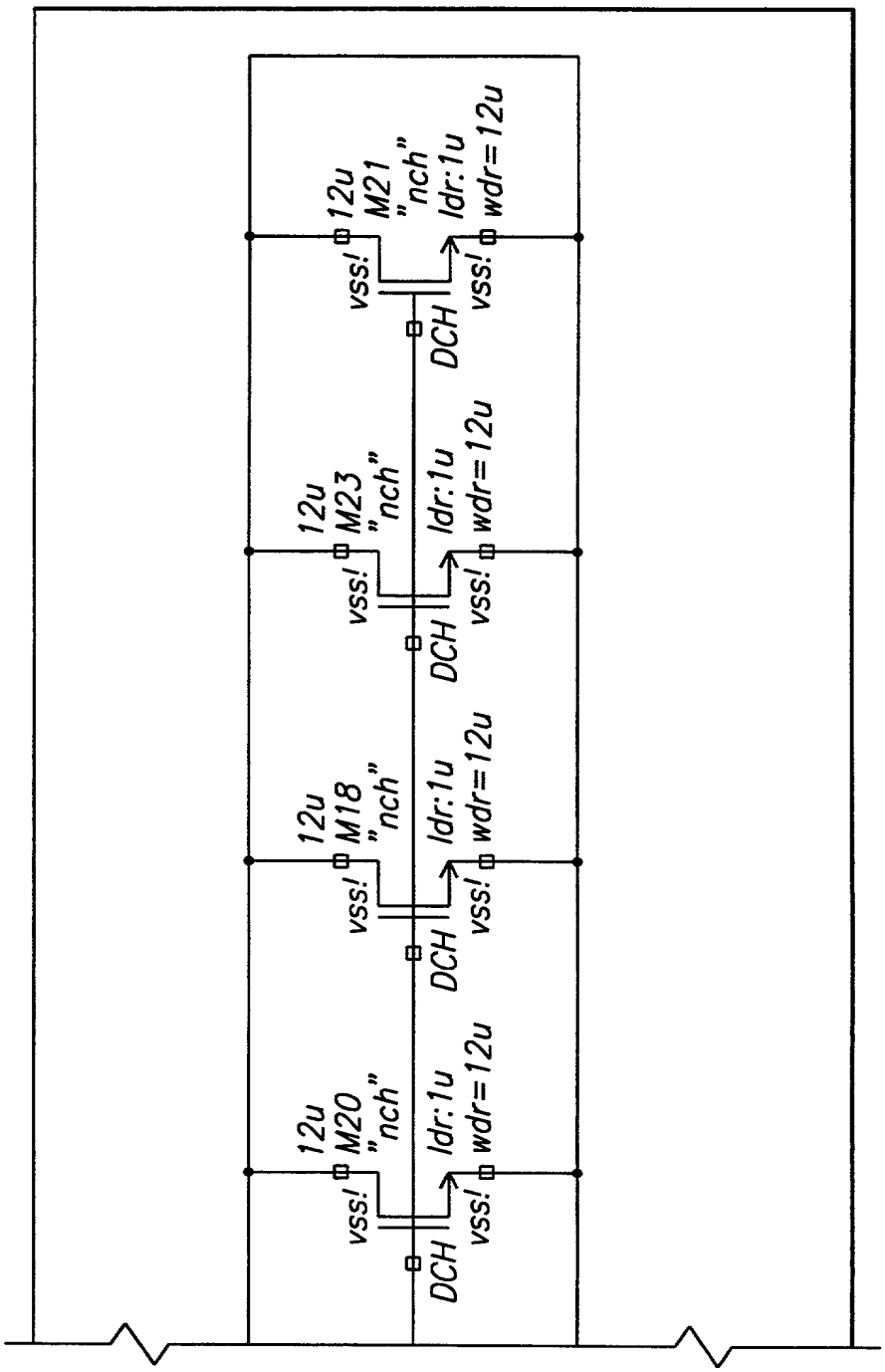

12u
M15
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M17
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M12
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M14
"nch"
ldr:1u
wdr=12u
vss!
DCH
vss!

FIG 7.0E-11


12u
M20
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M18
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M23
"nch"
ldr:1u
wdr=12u
vss!
DCH
12u
M21
"nch"
ldr:1u
wdr=12u
vss!
DCH

Фиг. 10

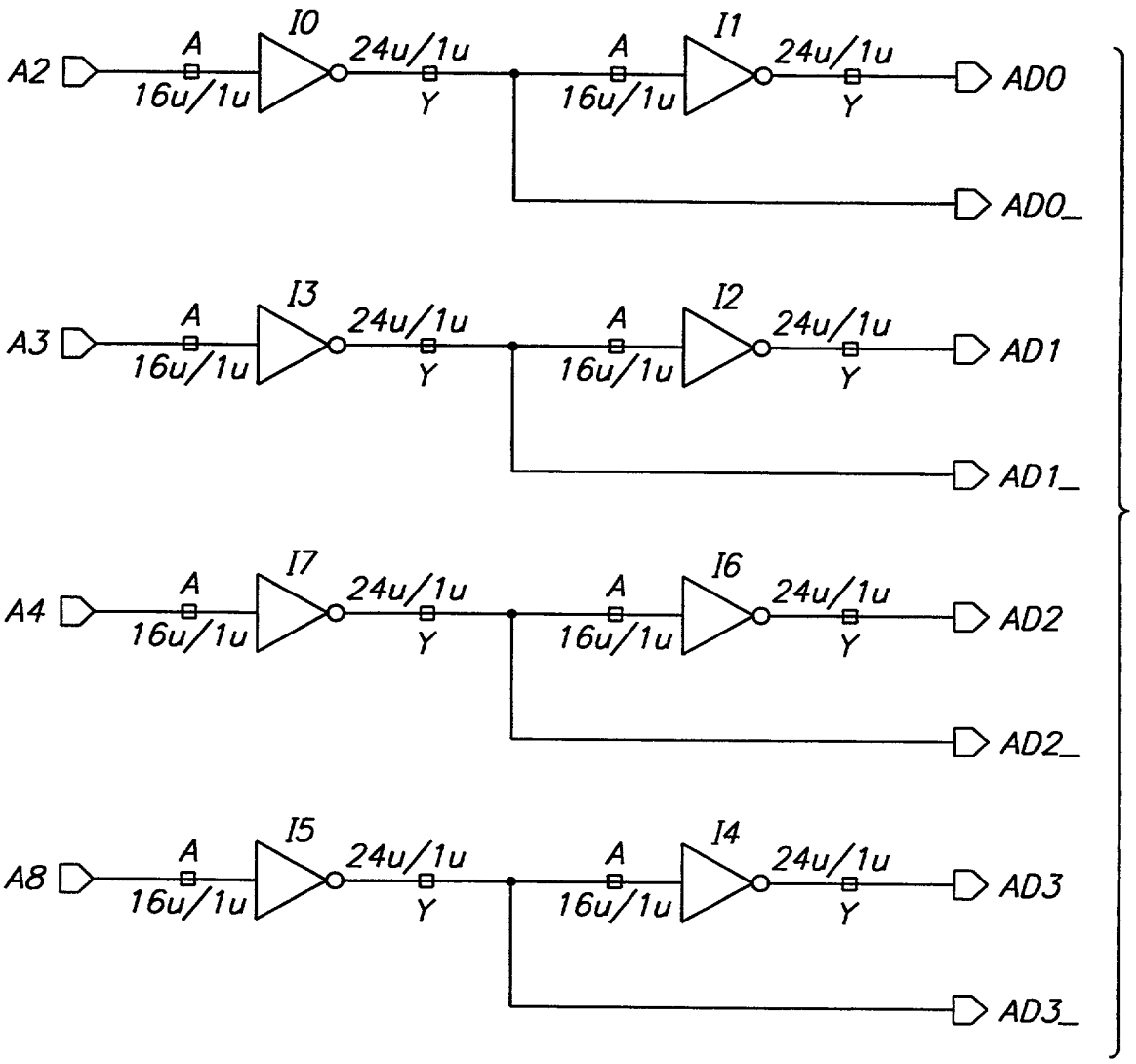

A2
A
16u/1u
I0
24u/1u
Y
A
16u/1u
I1
24u/1u
Y
AD0
AD0_
A3
A
16u/1u
I3
24u/1u
Y
A
16u/1u
I2
24u/1u
Y
AD1
AD1_
A4
A
16u/1u
I7
24u/1u
Y
A
16u/1u
I6
24u/1u
Y
AD2
AD2_
A8
A
16u/1u
I5
24u/1u
Y
A
16u/1u
I4
24u/1u
Y
AD3
AD3_

Fig 1.0305

264/3273

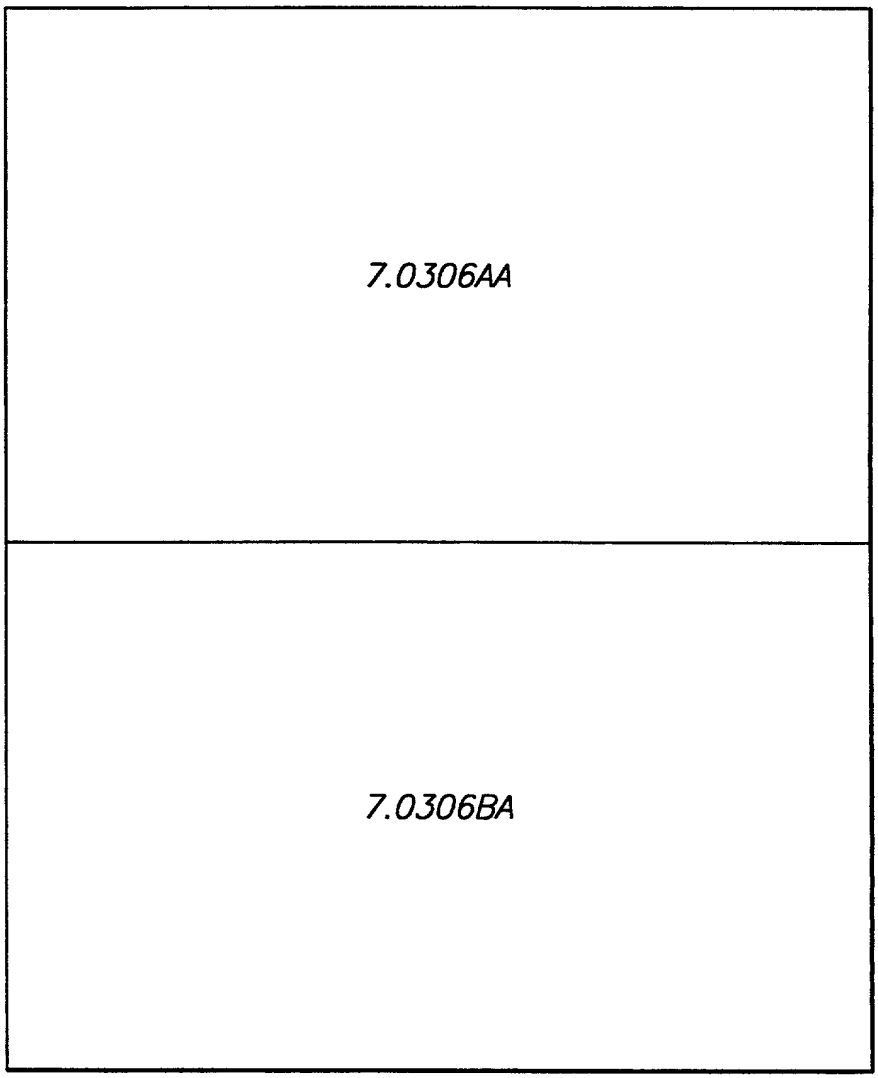


Fig 7.0306

Document: 95R2205 - 05/14/95

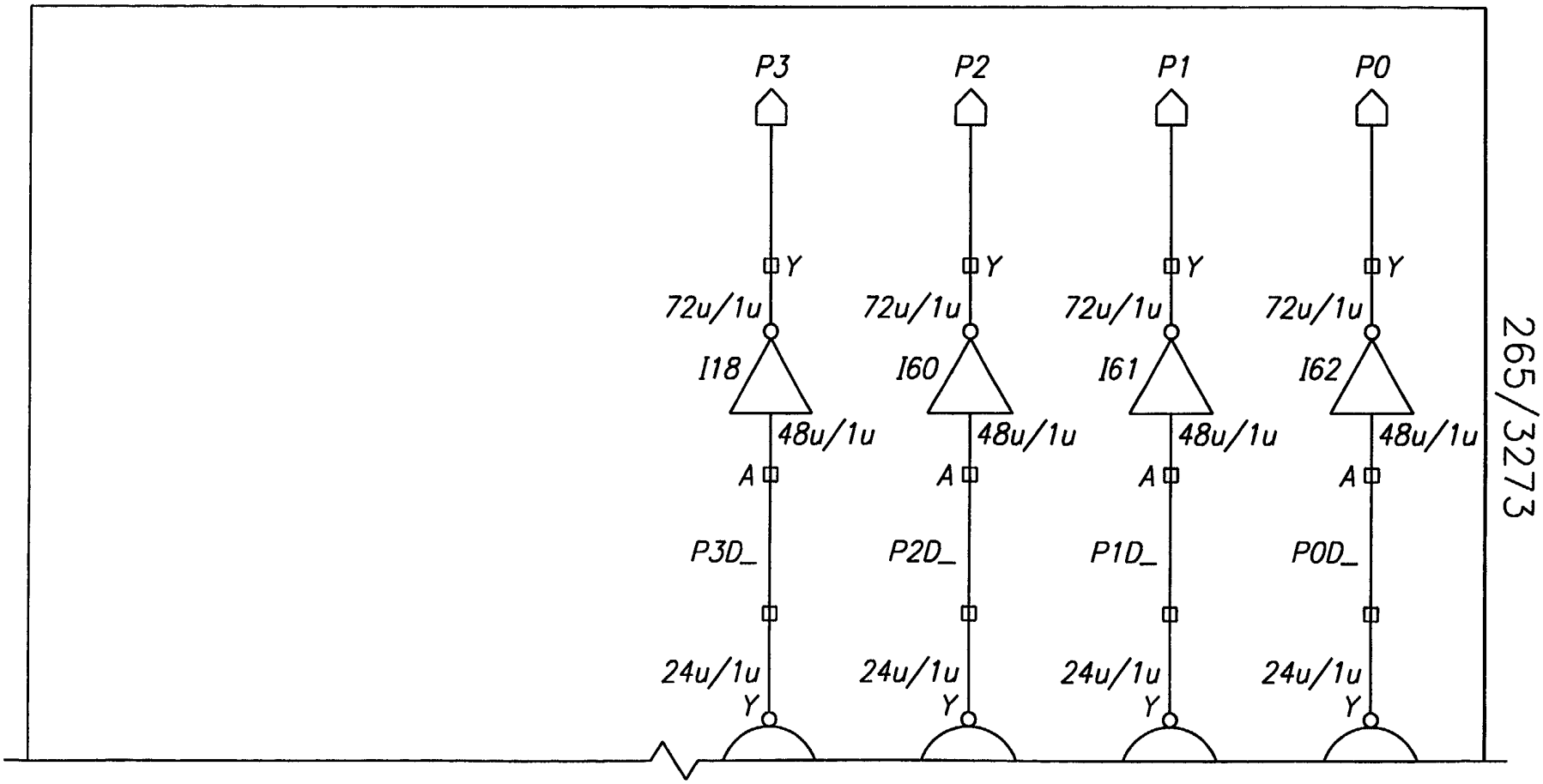
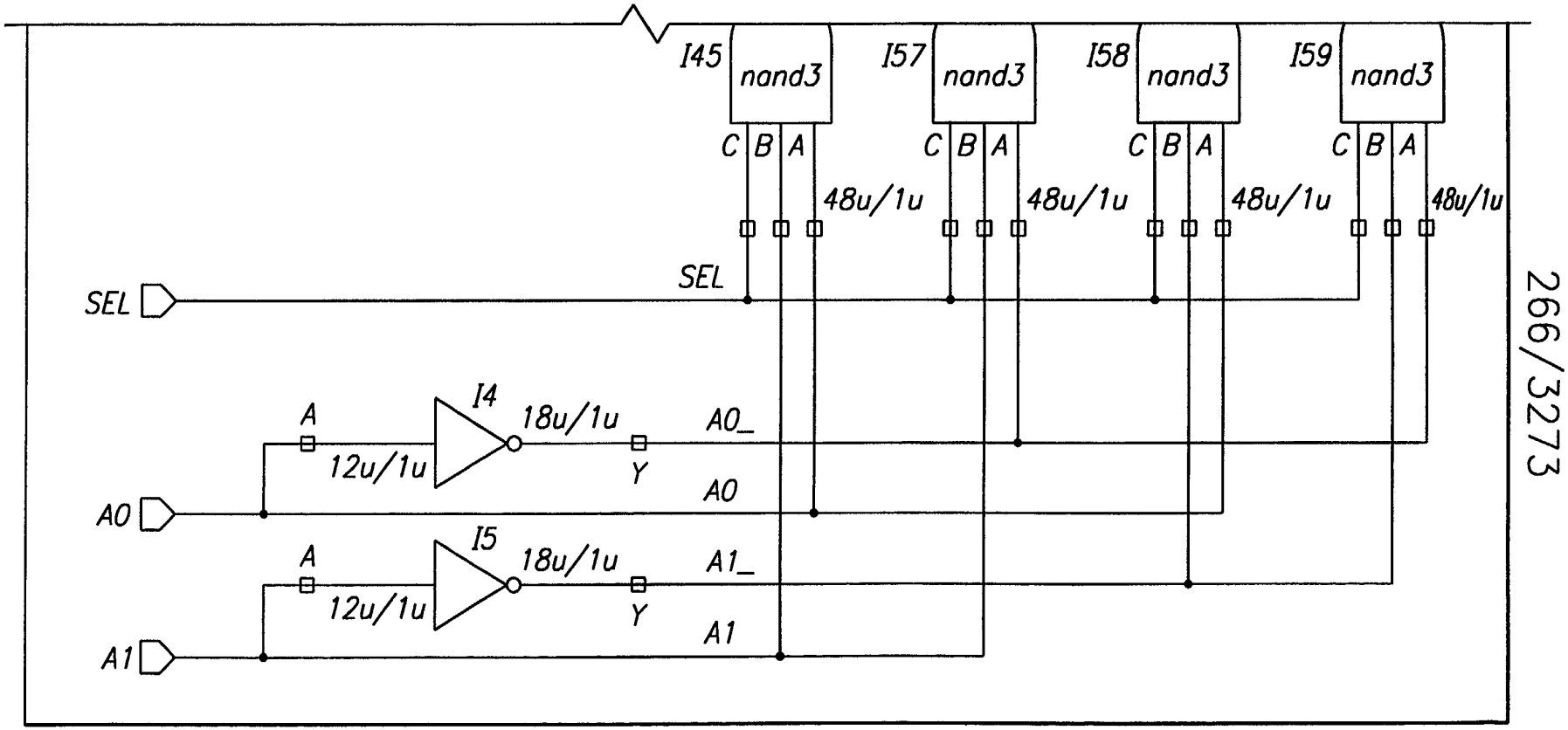


Fig 1.03006AA



Фиг 1.030618А

FOIA Case: 59425

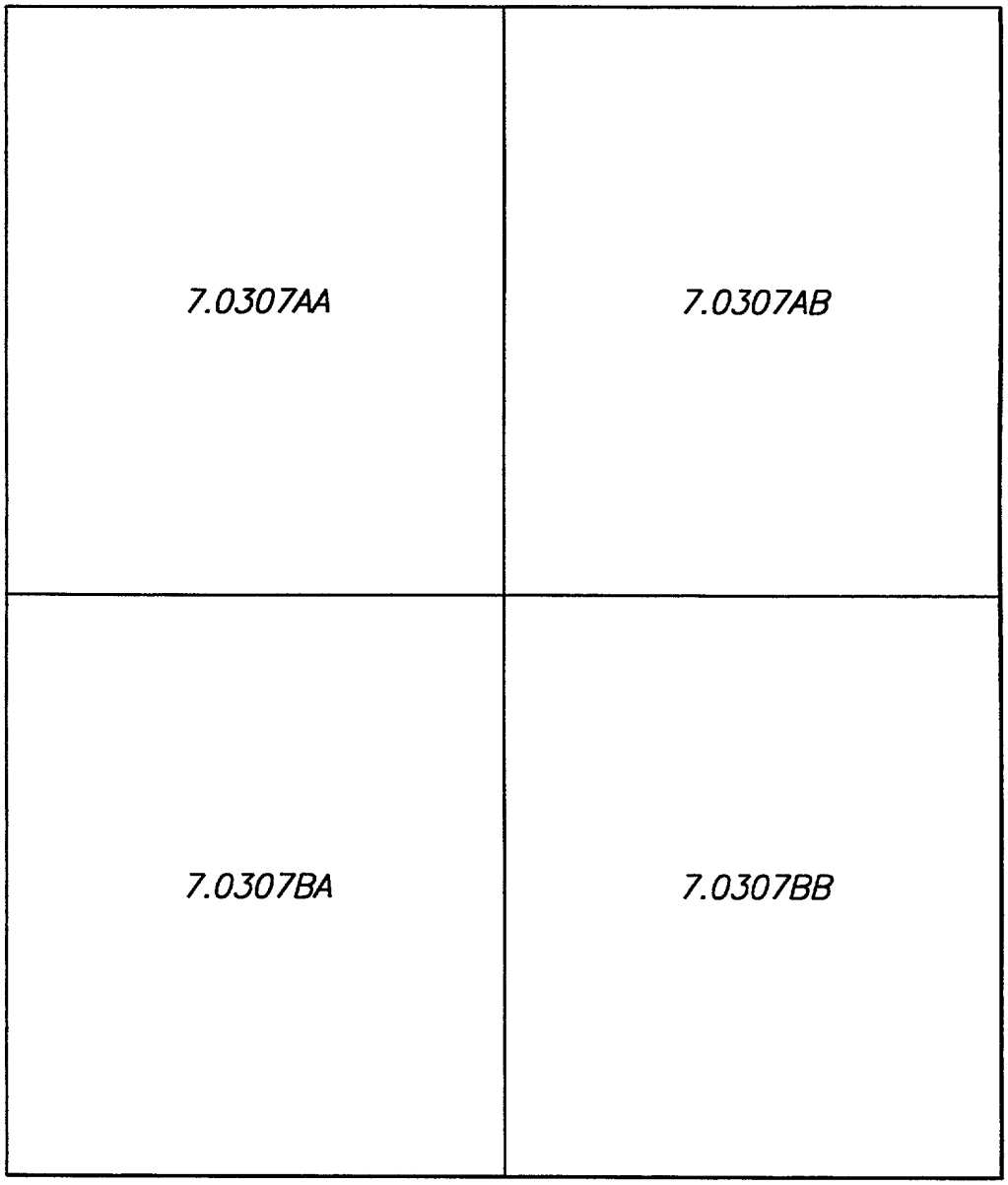


Fig 7.0307

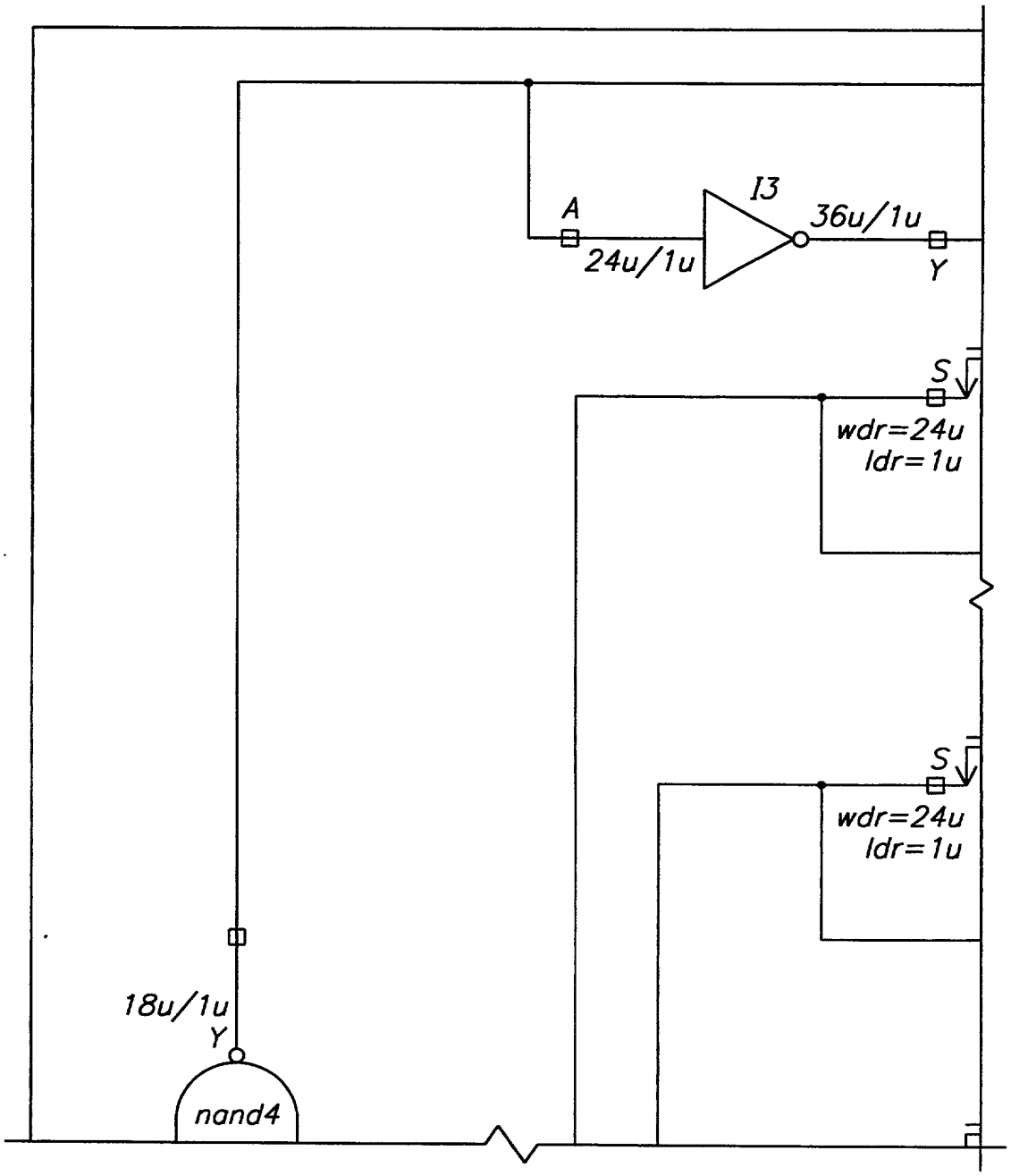


Fig 1.0301AA

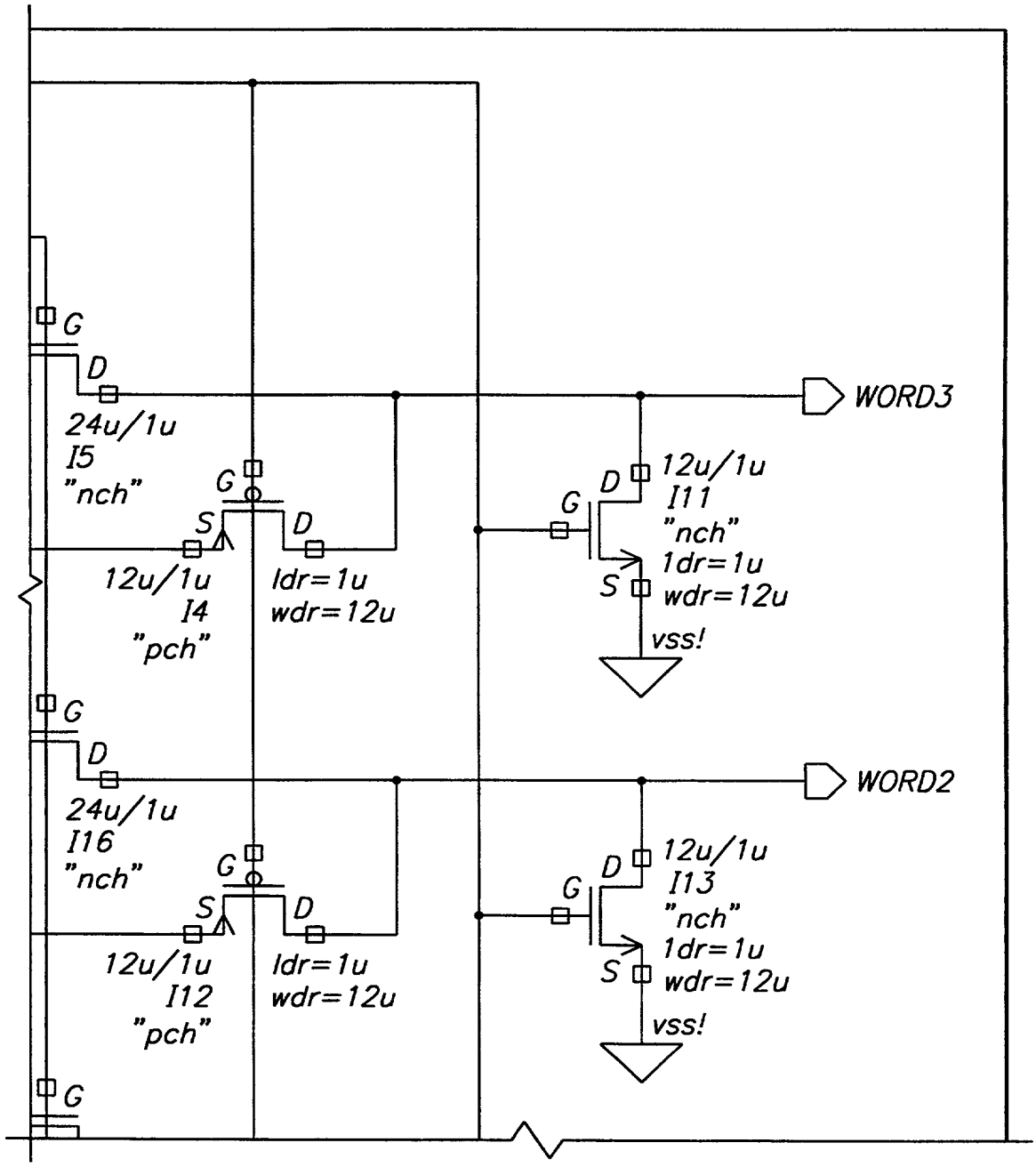
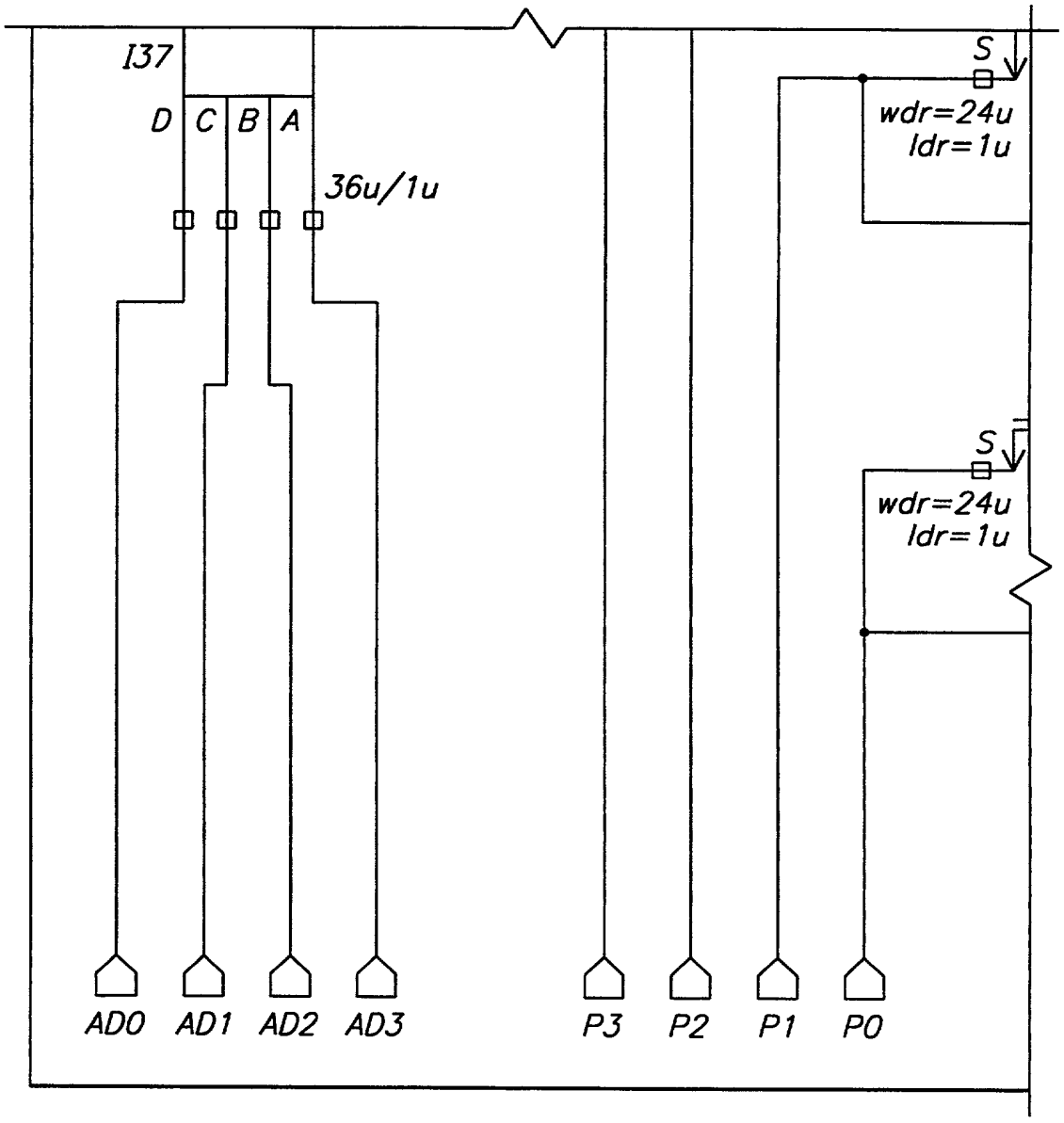


Fig 1.0300108



Фиг 1.03071BA

EP 0307168 A1

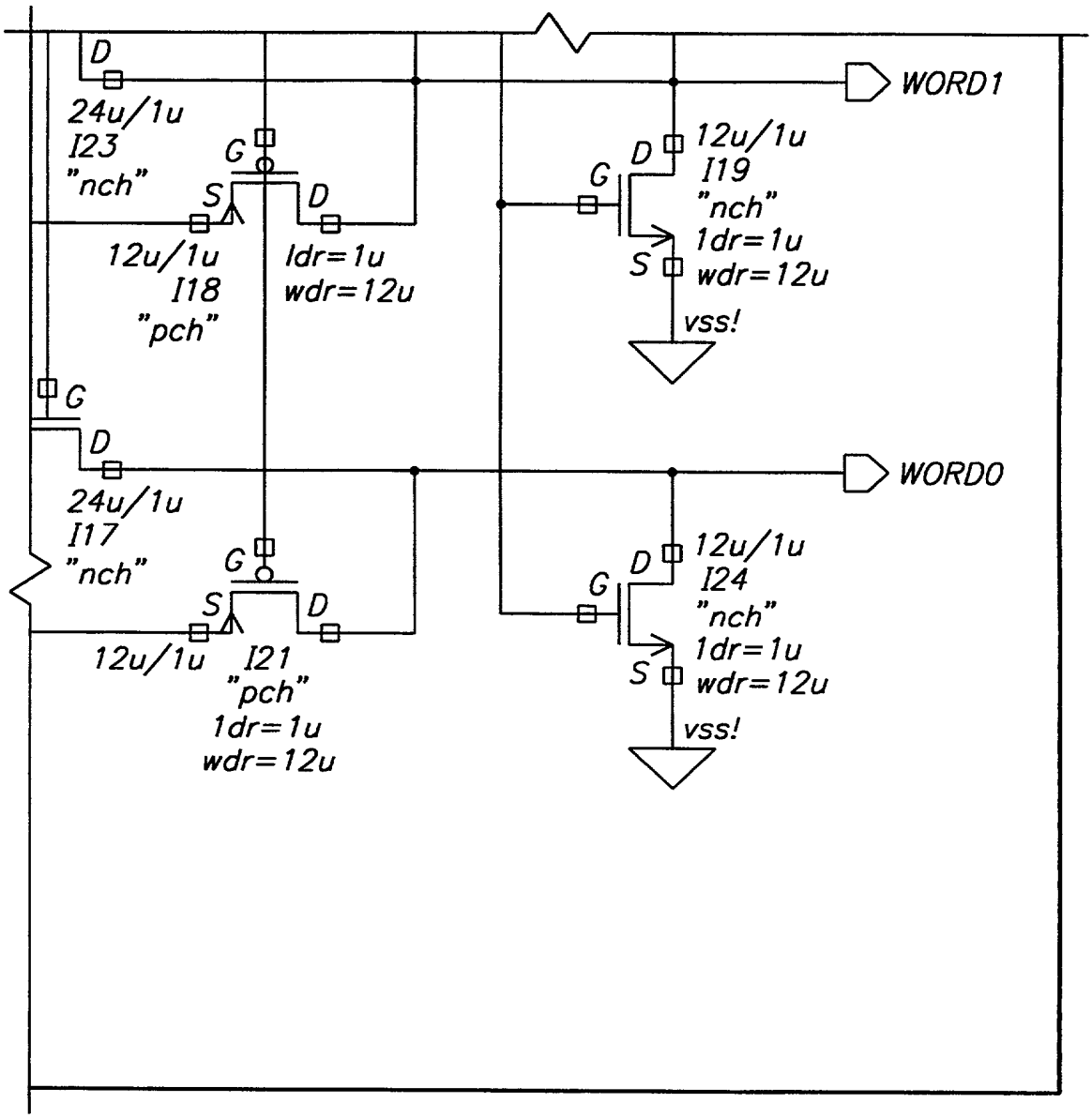


Fig 1.0300188

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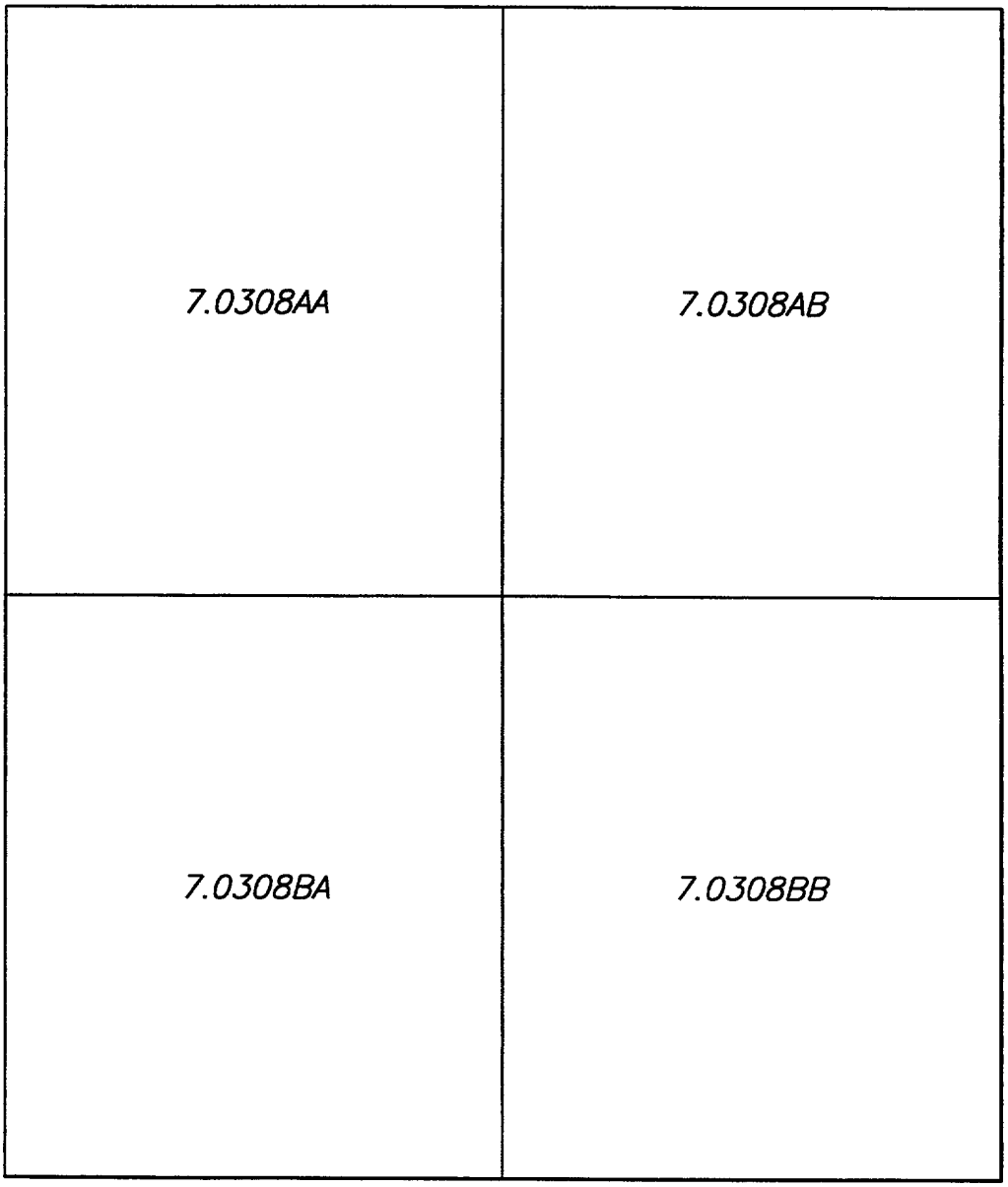
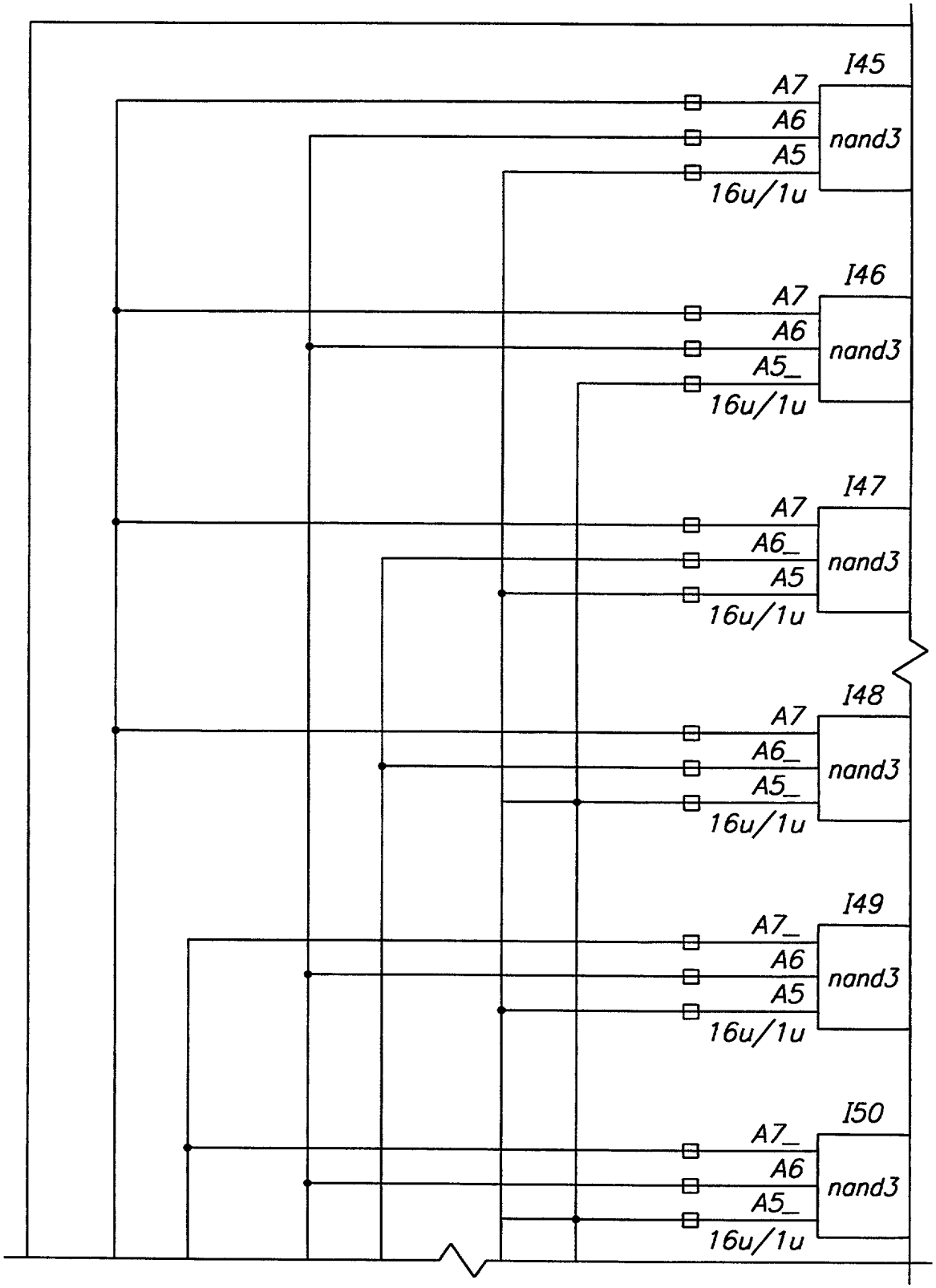


Fig 7.0308B


I45
A7
A6
A5
nand3
16u/1u
I46
A7
A6
A5_
nand3
16u/1u
I47
A7
A6_
A5
nand3
16u/1u
I48
A7
A6_
A5_
nand3
16u/1u
I49
A7_
A6
A5
nand3
16u/1u
I50
A7_
A6
A5_
nand3
16u/1u

Фиг 1.030ВАА

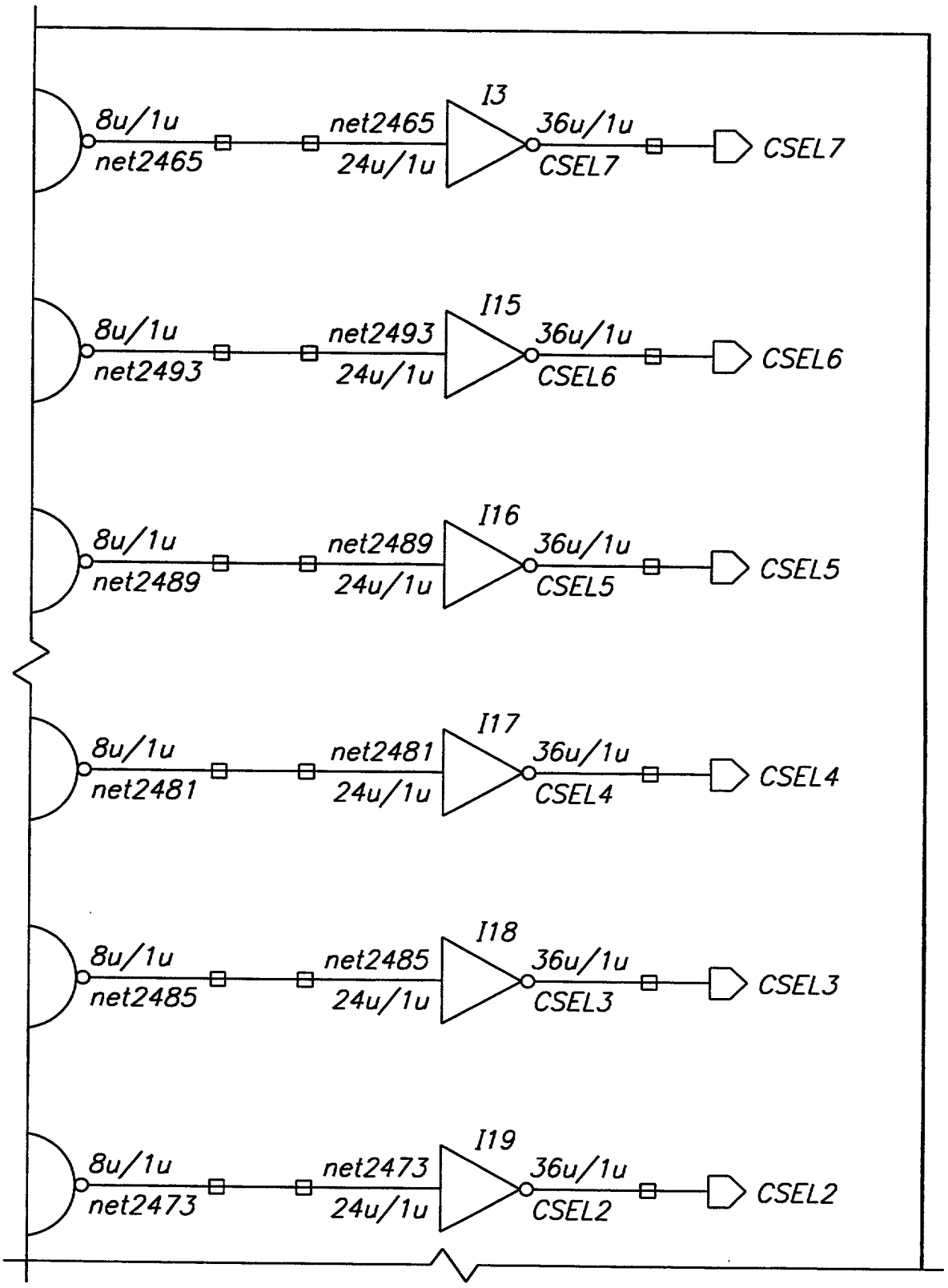
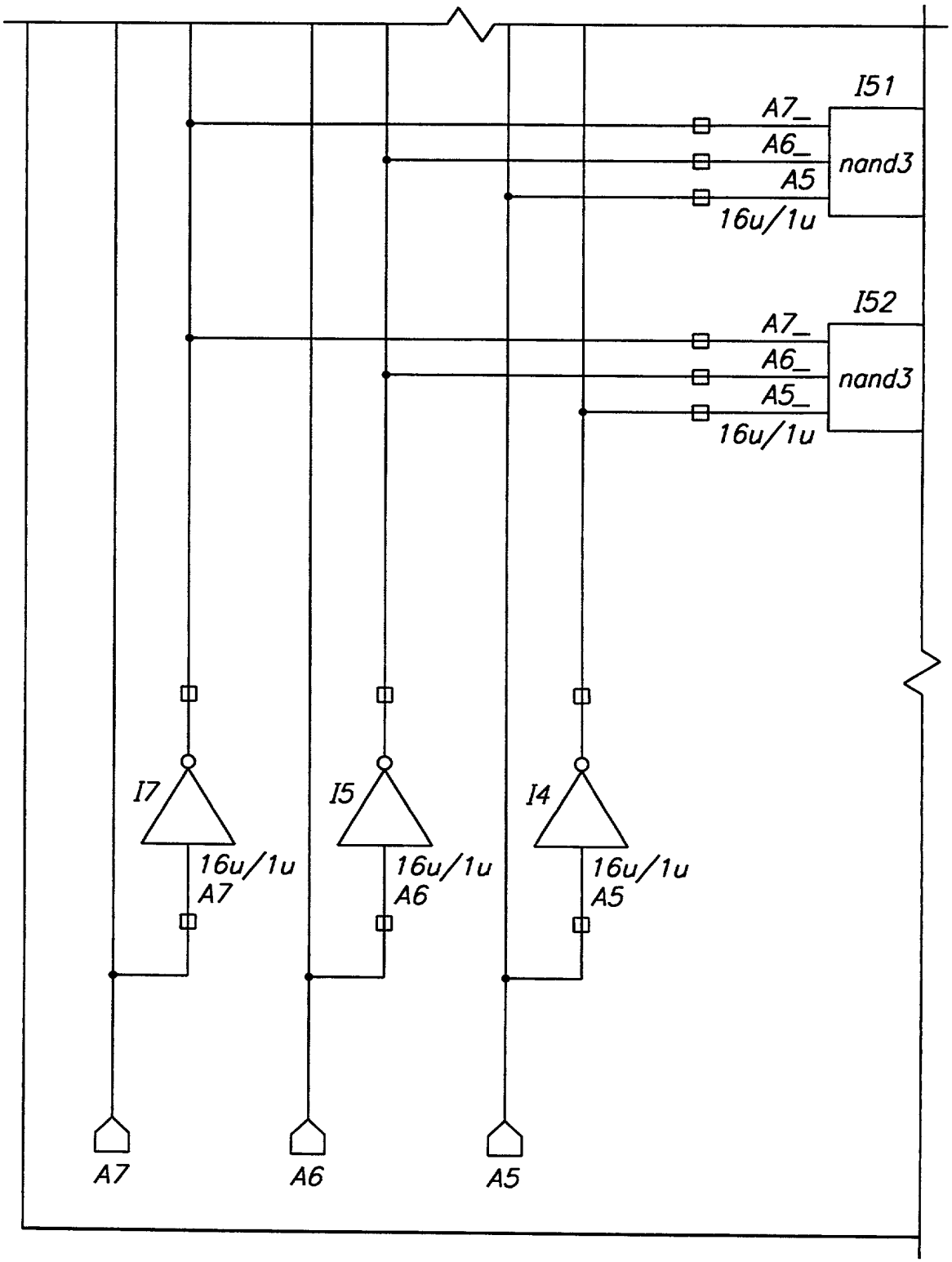
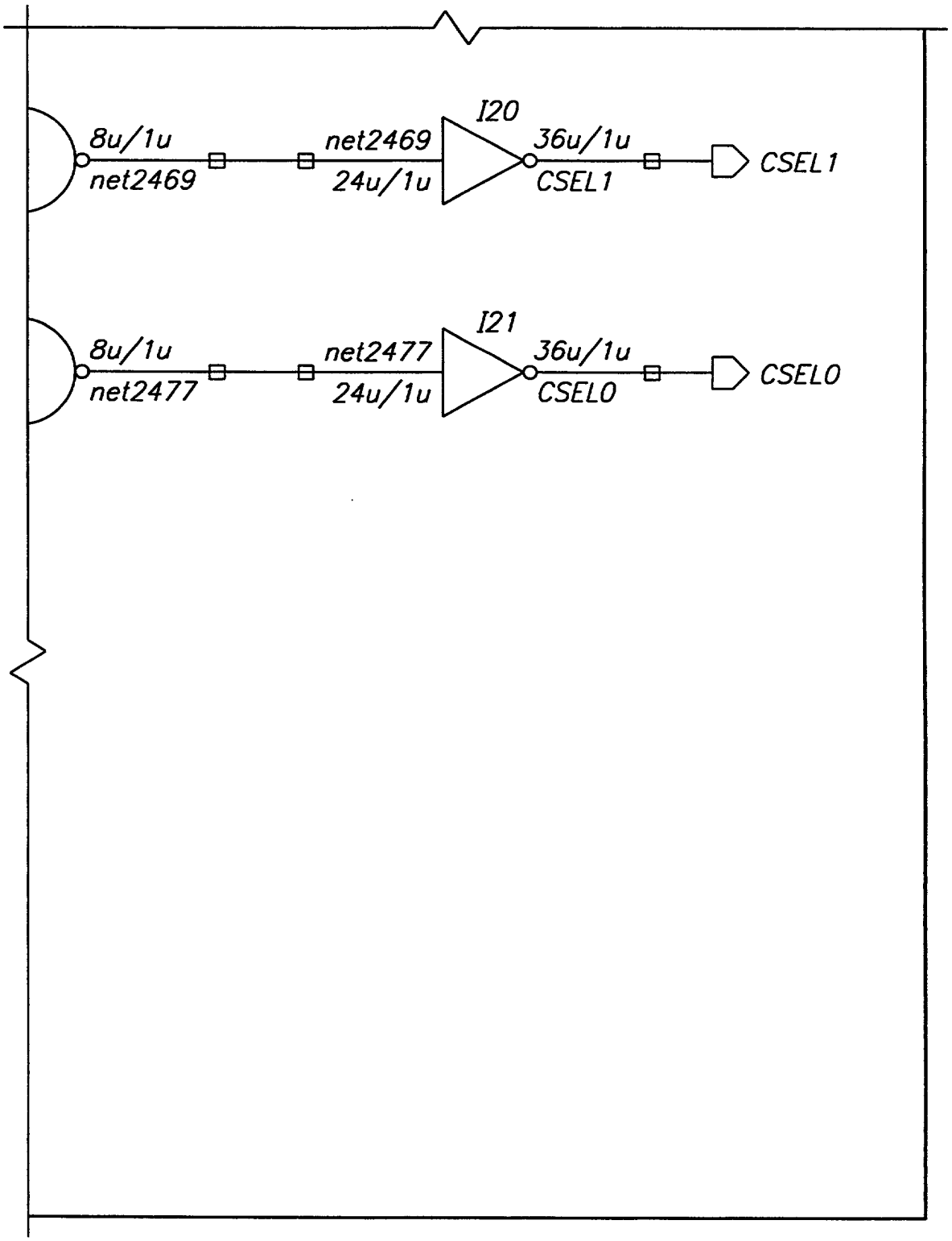

I3
8u/1u
net2465
net2465
24u/1u
36u/1u
CSEL7
CSEL7
I15
8u/1u
net2493
net2493
24u/1u
36u/1u
CSEL6
CSEL6
I16
8u/1u
net2489
net2489
24u/1u
36u/1u
CSEL5
CSEL5
I17
8u/1u
net2481
net2481
24u/1u
36u/1u
CSEL4
CSEL4
I18
8u/1u
net2485
net2485
24u/1u
36u/1u
CSEL3
CSEL3
I19
8u/1u
net2473
net2473
24u/1u
36u/1u
CSEL2
CSEL2

Fig 3.0308AB


I51
A7_
A6_
A5
nand3
16u/1u
I52
A7_
A6_
A5_
nand3
16u/1u
I7
16u/1u
A7
I5
16u/1u
A6
I4
16u/1u
A5
A7
A6
A5

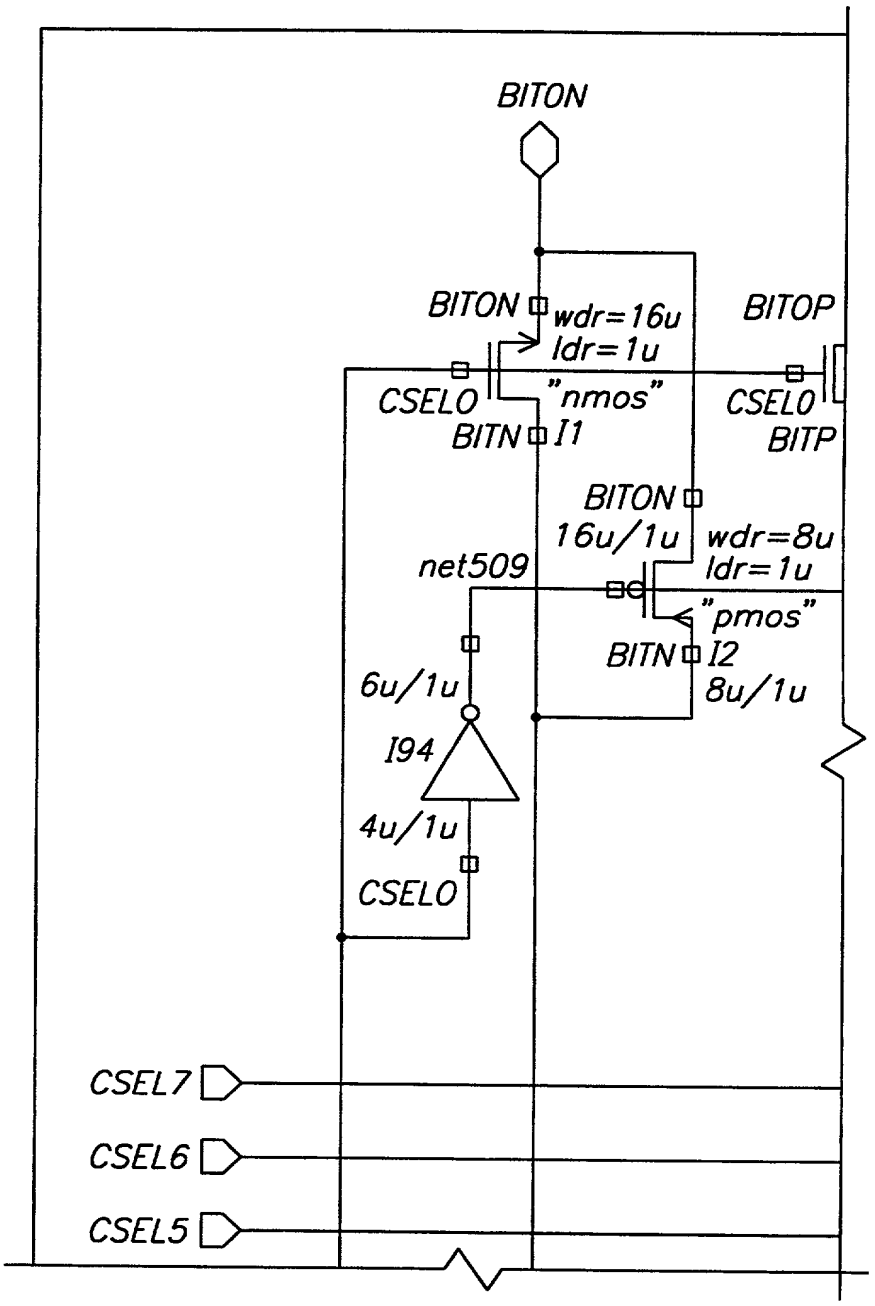
Фиг 1.030ВВА


I20
8u/1u
net2469
net2469
24u/1u
36u/1u
CSEL1
CSEL1
I21
8u/1u
net2477
net2477
24u/1u
36u/1u
CSEL0
CSEL0

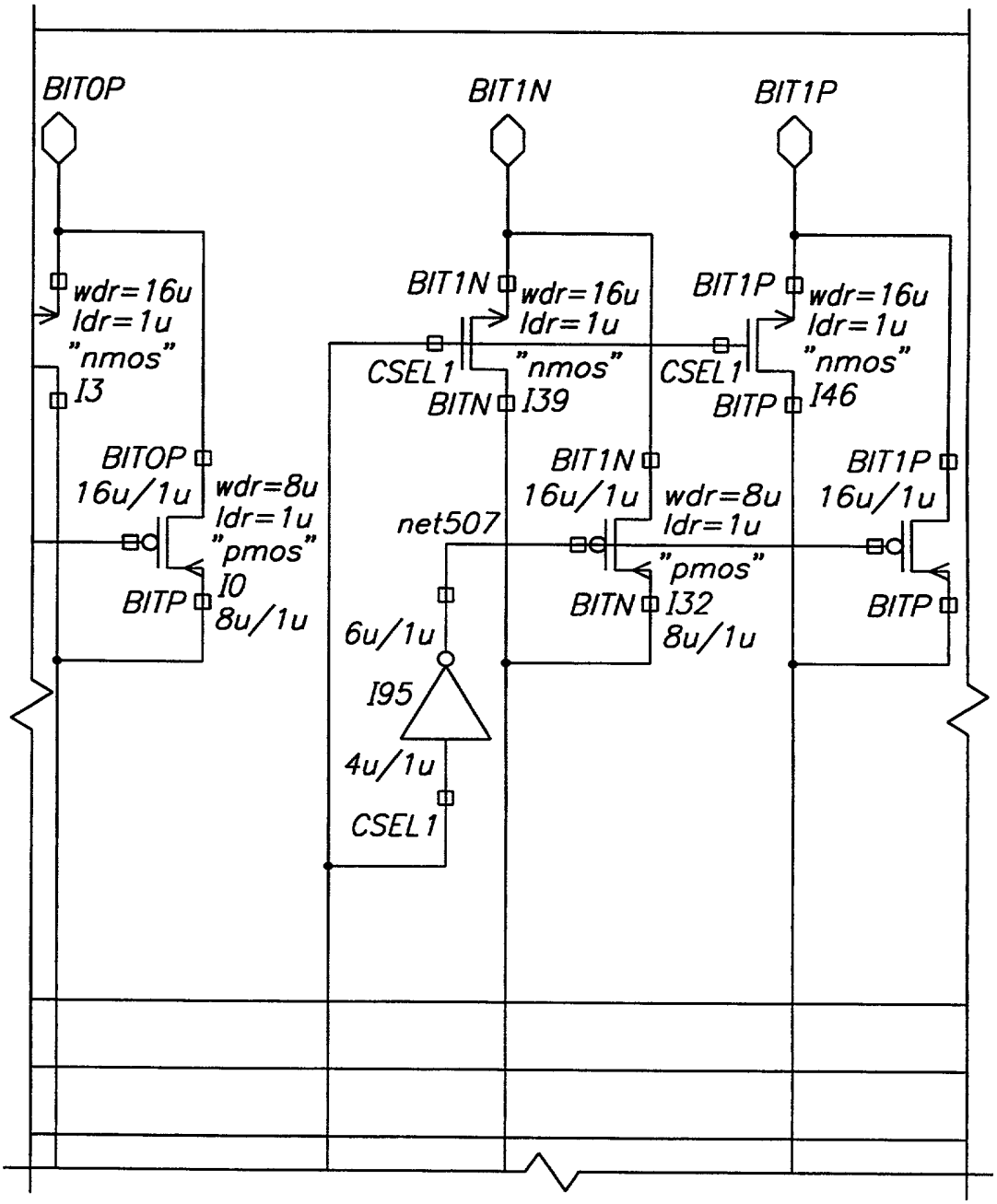
US6211705

7.0309AA	7.0309AB	7.0309AC	7.0309AD	7.0309AE	7.0309AF	7.0309AG
7.0309BA	7.0309BB	7.0309BC	7.0309BD	7.0309BE	7.0309BF	7.0309BG

Fig 7.0309



Фиг 1.03009АА


BITOP
BIT1N
BIT1P
wdr=16u
ldr=1u
"nmos"
I3
BIT1N
wdr=16u
ldr=1u
CSEL1
"nmos"
BITN
I39
BIT1P
wdr=16u
ldr=1u
CSEL1
"nmos"
BITP
I46
BITOP
16u/1u
wdr=8u
ldr=1u
"pmos"
I0
BITP
8u/1u
BIT1N
16u/1u
wdr=8u
ldr=1u
net507
"pmos"
BITN
I32
8u/1u
BIT1P
16u/1u
BITP
6u/1u
I95
4u/1u
CSEL1

Фиг 1.03094B

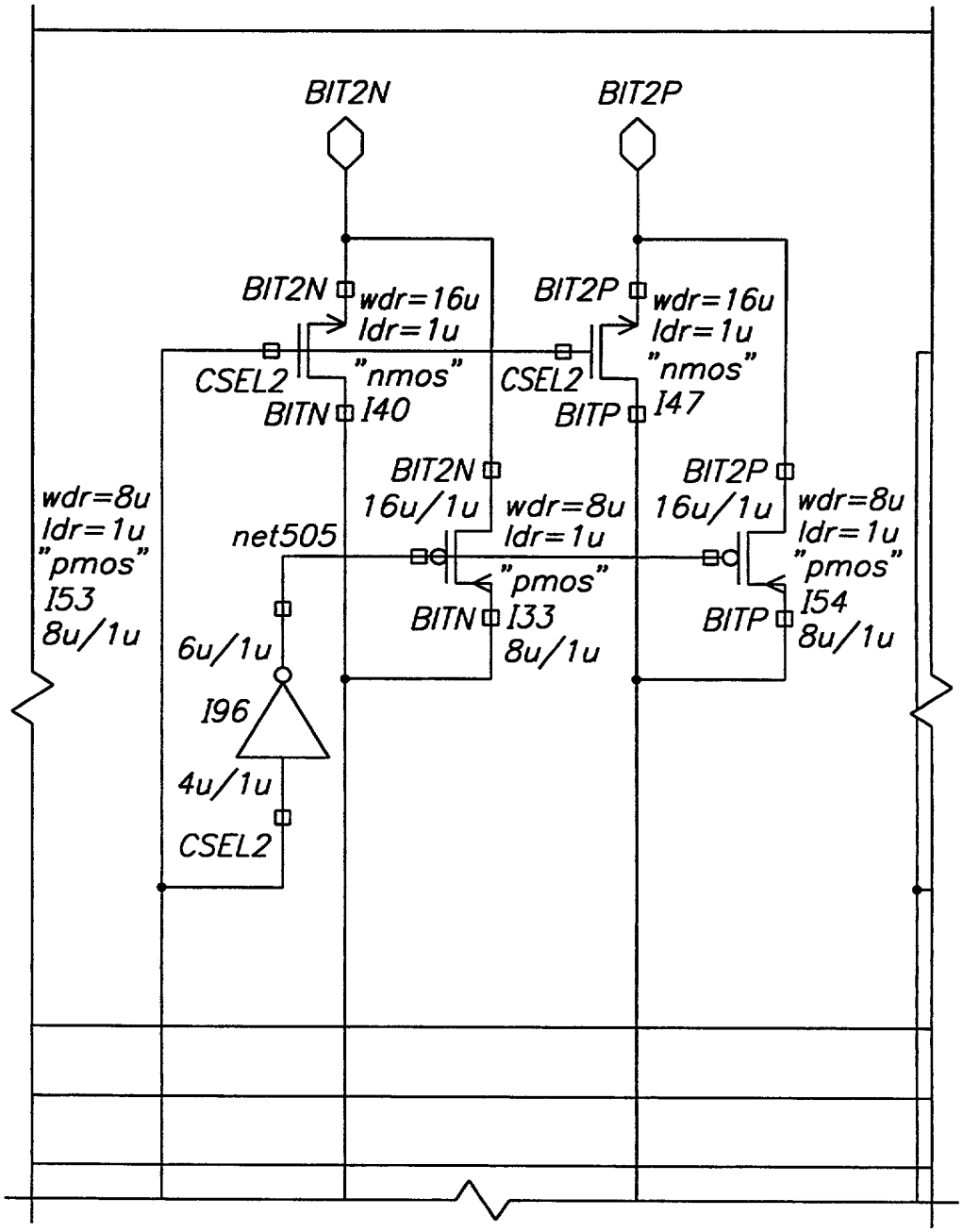

BIT2N
BIT2P
BIT2N
wdr=16u
ldr=1u
"nmos"
I40
CSEL2
BITN
BIT2P
wdr=16u
ldr=1u
"nmos"
I47
CSEL2
BITP
wdr=8u
ldr=1u
"pmos"
I53
8u/1u
BIT2N
16u/1u
net505
wdr=8u
ldr=1u
"pmos"
I33
8u/1u
BITN
BIT2P
16u/1u
wdr=8u
ldr=1u
"pmos"
I54
8u/1u
BITP
6u/1u
I96
4u/1u
CSEL2

Fig 1.0309AC

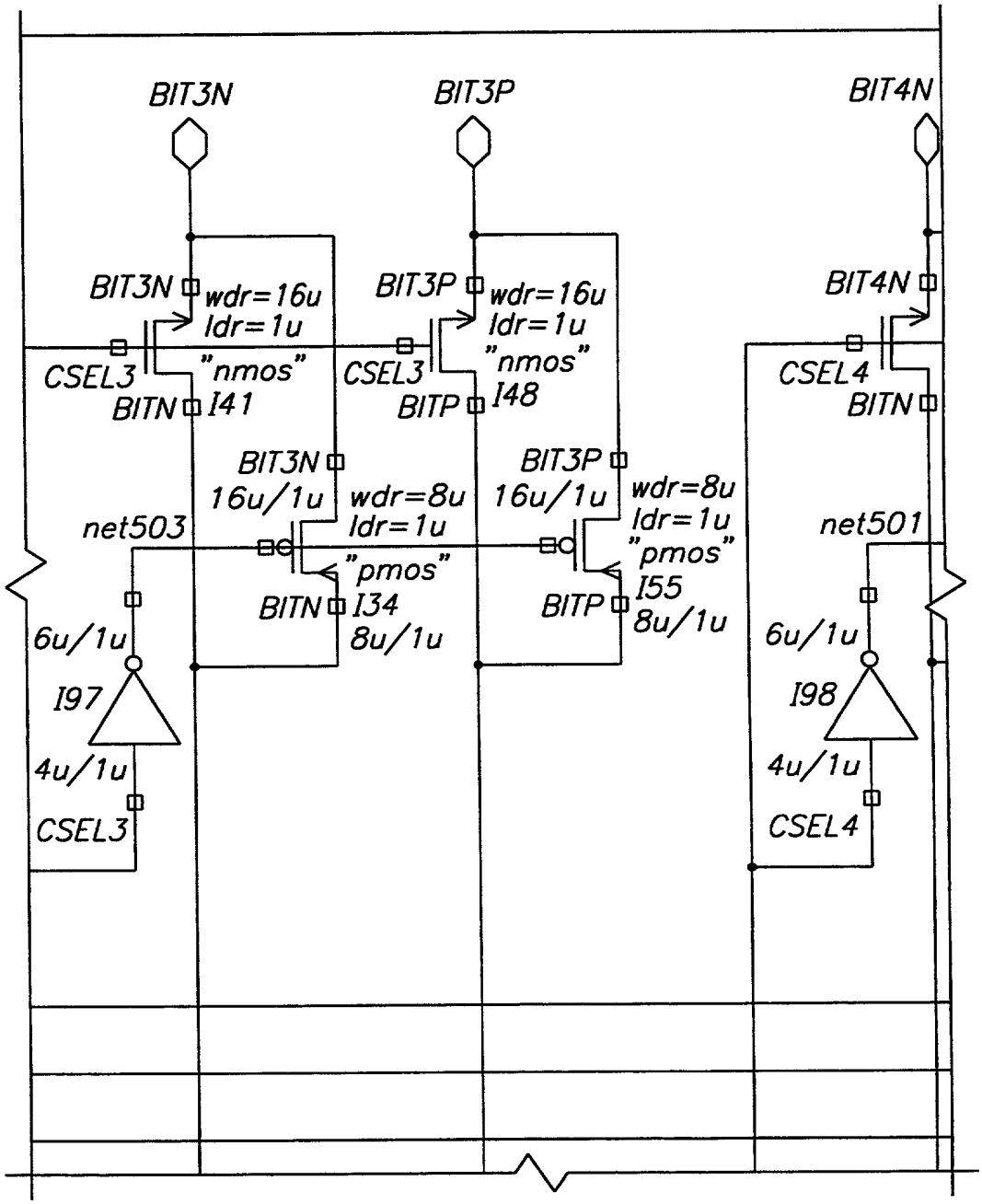

BIT3N
BIT3P
BIT4N
BIT3N
wdr=16u
ldr=1u
"nmos"
CSEL3
BITN
I41
BIT3P
wdr=16u
ldr=1u
"nmos"
CSEL3
BITP
I48
BIT4N
CSEL4
BITN
BIT3N
16u/1u
wdr=8u
ldr=1u
"pmos"
BITN
I34
8u/1u
BIT3P
16u/1u
wdr=8u
ldr=1u
"pmos"
I55
BITP
8u/1u
net503
net501
6u/1u
I97
4u/1u
CSEL3
6u/1u
I98
4u/1u
CSEL4

Fig 1.030940

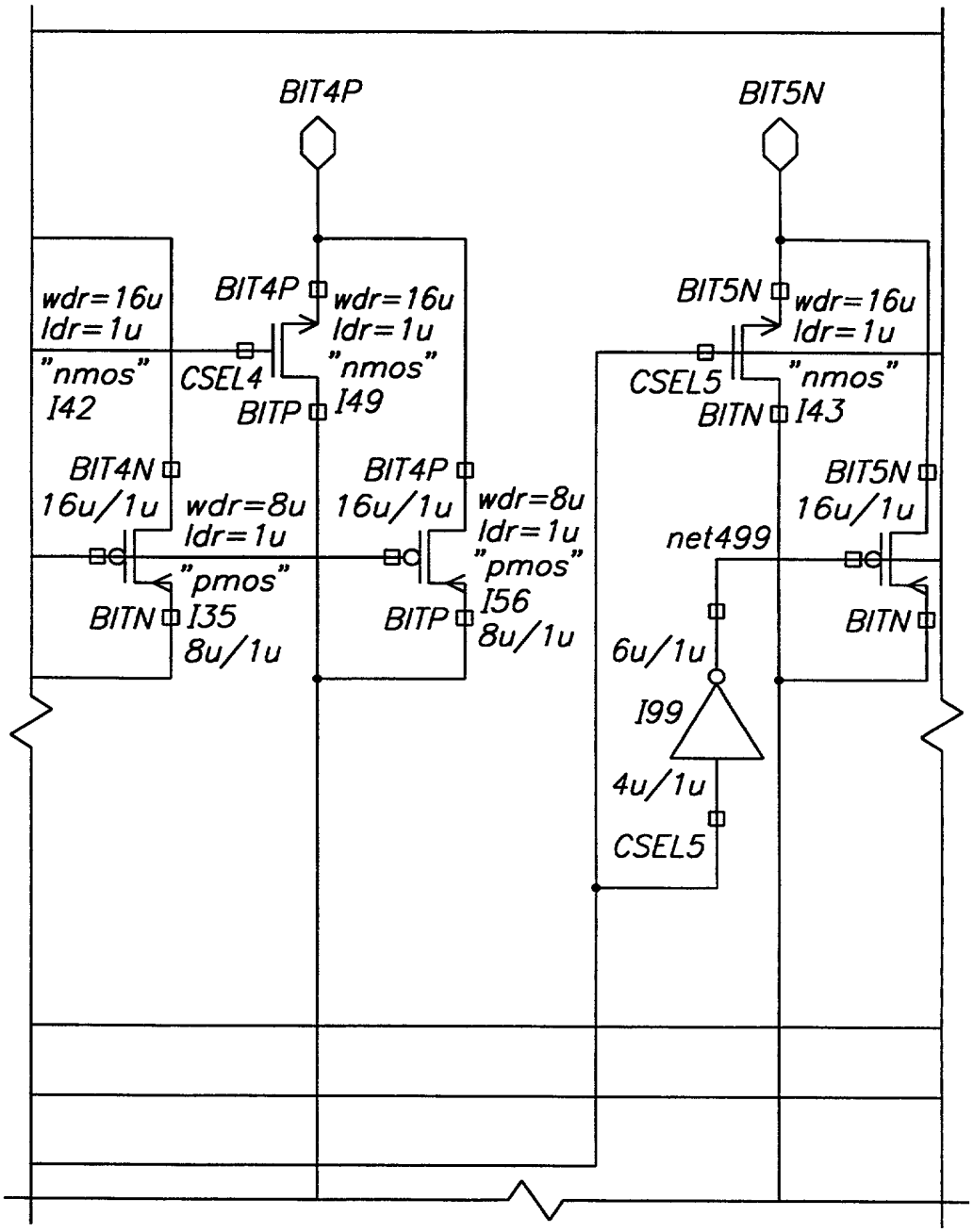

BIT4P
BIT5N
wdr=16u
ldr=1u
"nmos"
I42
BIT4P
wdr=16u
ldr=1u
"nmos"
I49
CSEL4
BITP
BIT5N
wdr=16u
ldr=1u
"nmos"
I43
CSEL5
BITN
BIT4N
16u/1u
wdr=8u
ldr=1u
"pmos"
I35
8u/1u
BITN
BIT4P
16u/1u
wdr=8u
ldr=1u
"pmos"
I56
8u/1u
BITP
BIT5N
16u/1u
net499
BITN
6u/1u
I99
4u/1u
CSEL5

Fig 1.0309AE

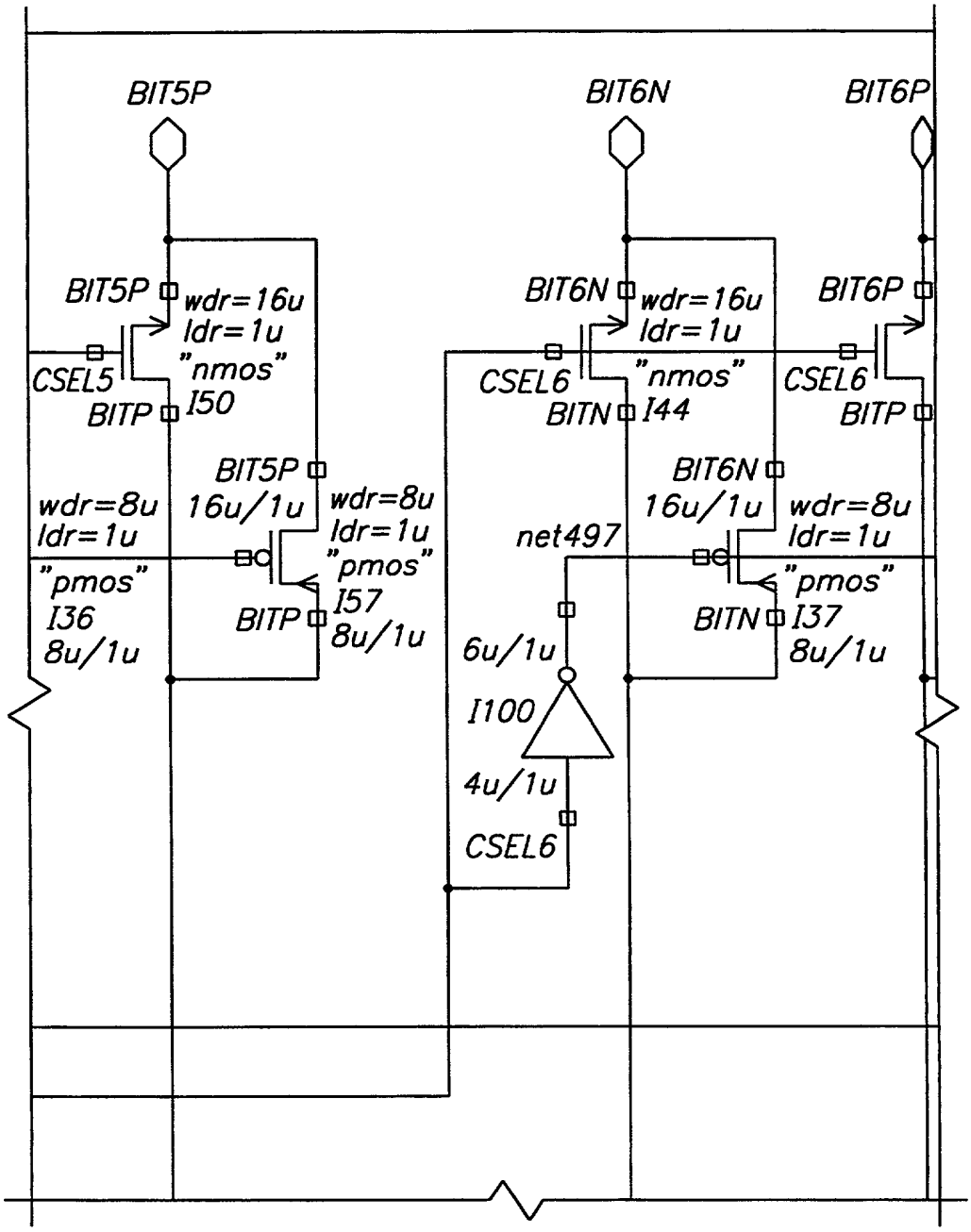

BIT5P
BIT6N
BIT6P
BIT5P
wdr=16u
ldr=1u
"nmos"
I50
CSEL5
BITP
BIT6N
wdr=16u
ldr=1u
"nmos"
I44
CSEL6
BITN
BIT6P
CSEL6
BITP
BIT5P
16u/1u
wdr=8u
ldr=1u
"pmos"
I57
8u/1u
BITP
wdr=8u
ldr=1u
"pmos"
I36
8u/1u
BIT6N
16u/1u
wdr=8u
ldr=1u
"pmos"
I37
8u/1u
BITN
net497
6u/1u
I100
4u/1u
CSEL6

Fig 1.0309AF

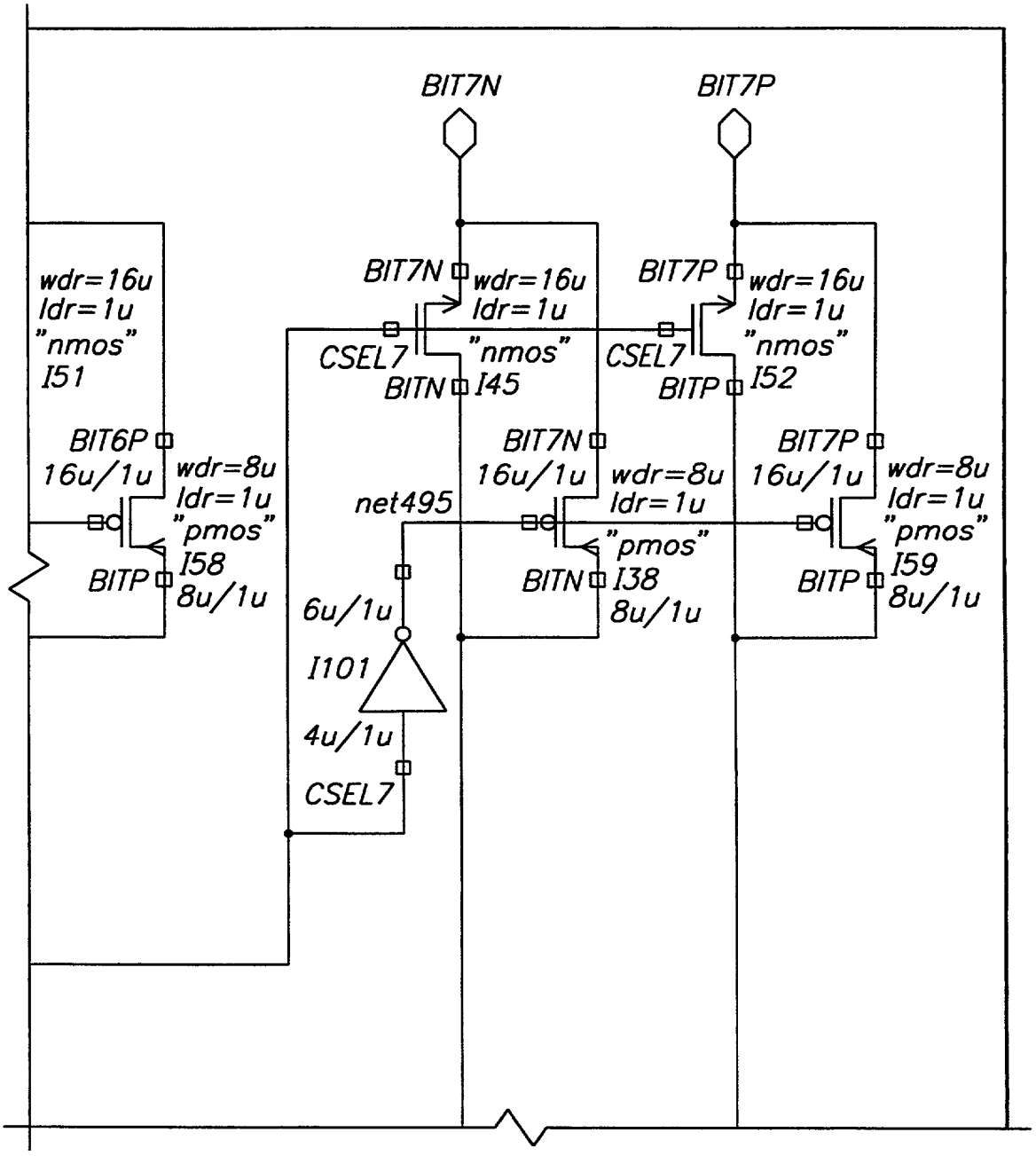

BIT7N
BIT7P
wdr=16u
ldr=1u
"nmos"
I51
BIT7N
wdr=16u
ldr=1u
"nmos"
I45
CSEL7
BITN
BIT7P
wdr=16u
ldr=1u
"nmos"
I52
CSEL7
BITP
BIT6P
16u/1u
wdr=8u
ldr=1u
"pmos"
I58
8u/1u
BITP
net495
BIT7N
16u/1u
wdr=8u
ldr=1u
"pmos"
I38
8u/1u
BITN
BIT7P
16u/1u
wdr=8u
ldr=1u
"pmos"
I59
8u/1u
BITP
6u/1u
I101
4u/1u
CSEL7

Fig 7.0309A6

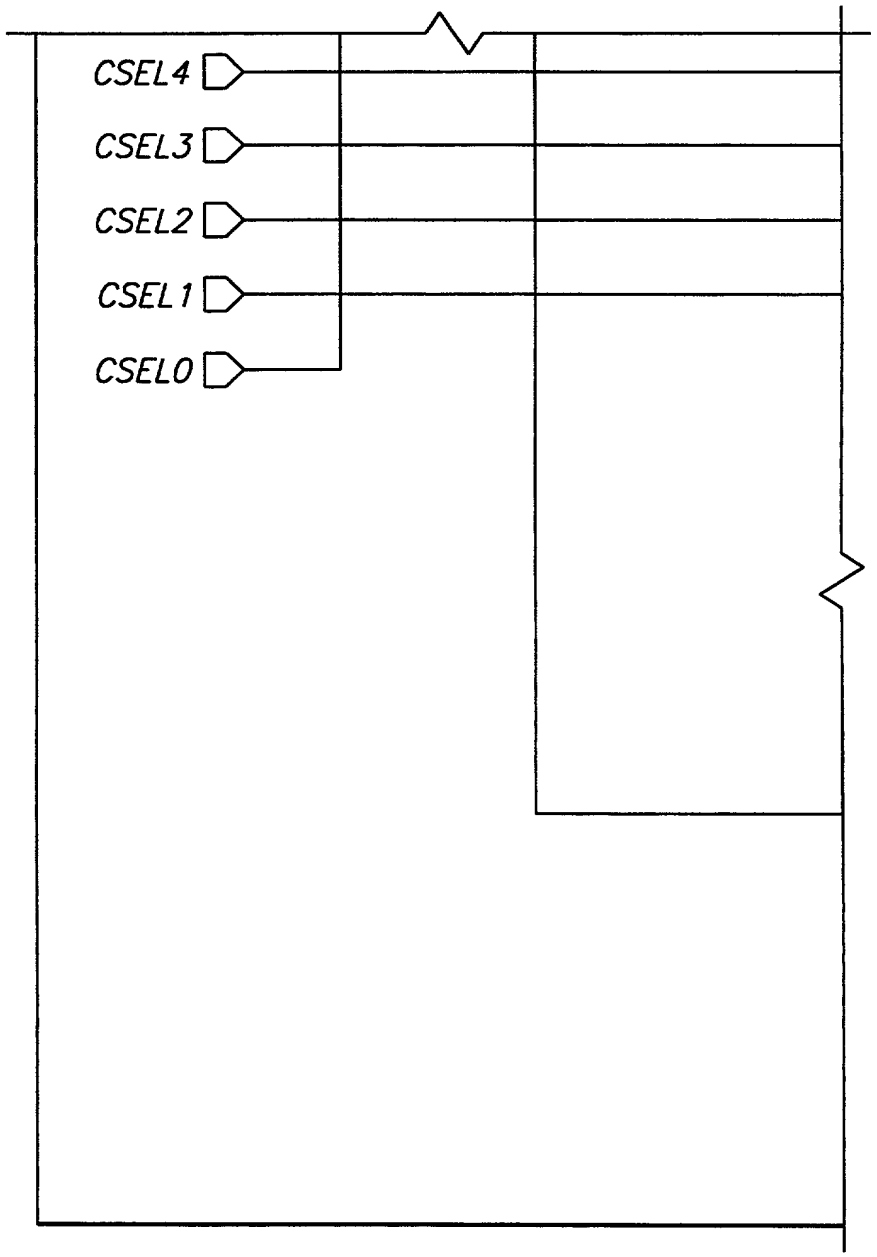
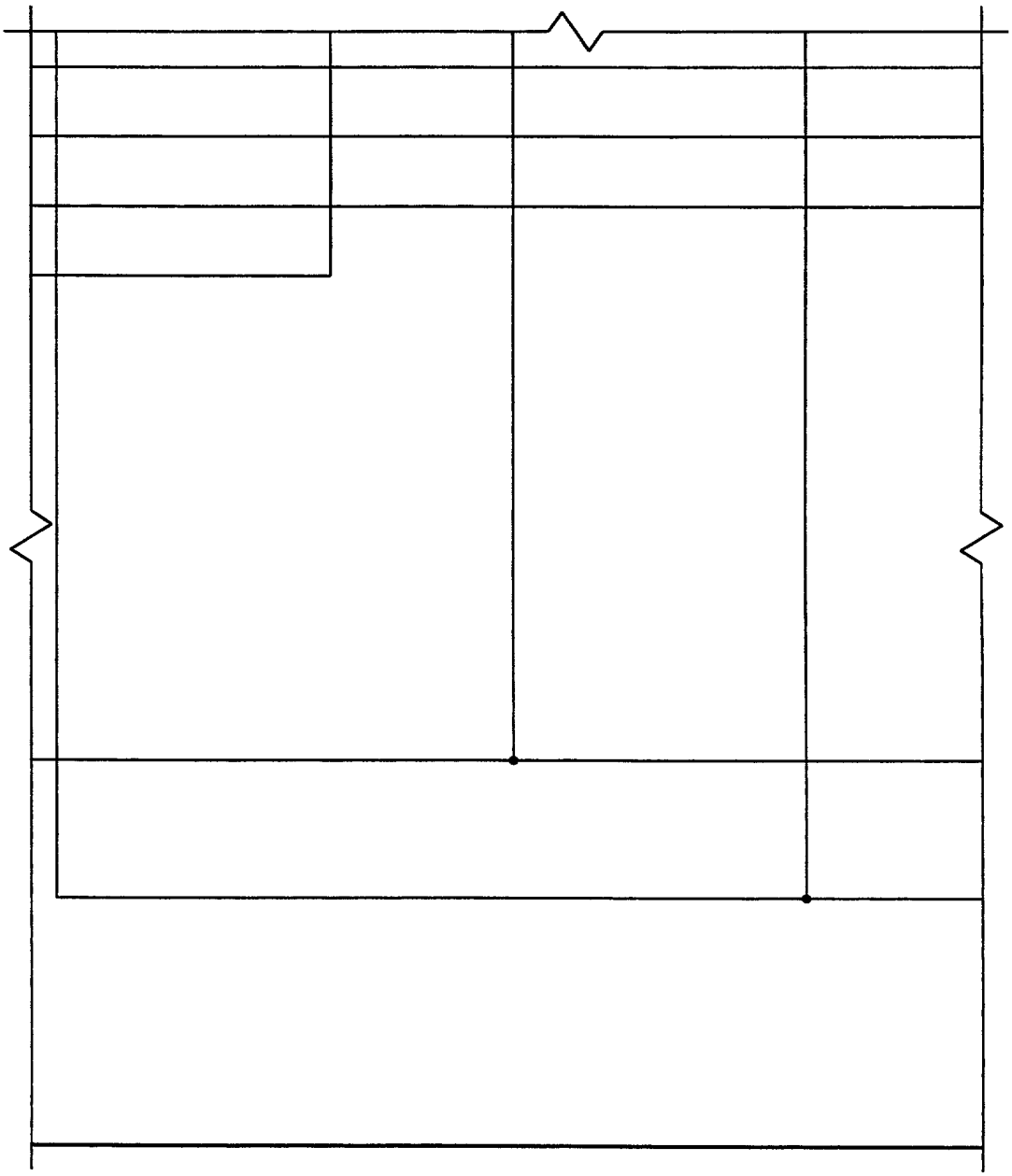


Fig 1.030908A

EP 1 507 290 A2 20050216



Eq 1.0309BB

Protected - 2022-06-23

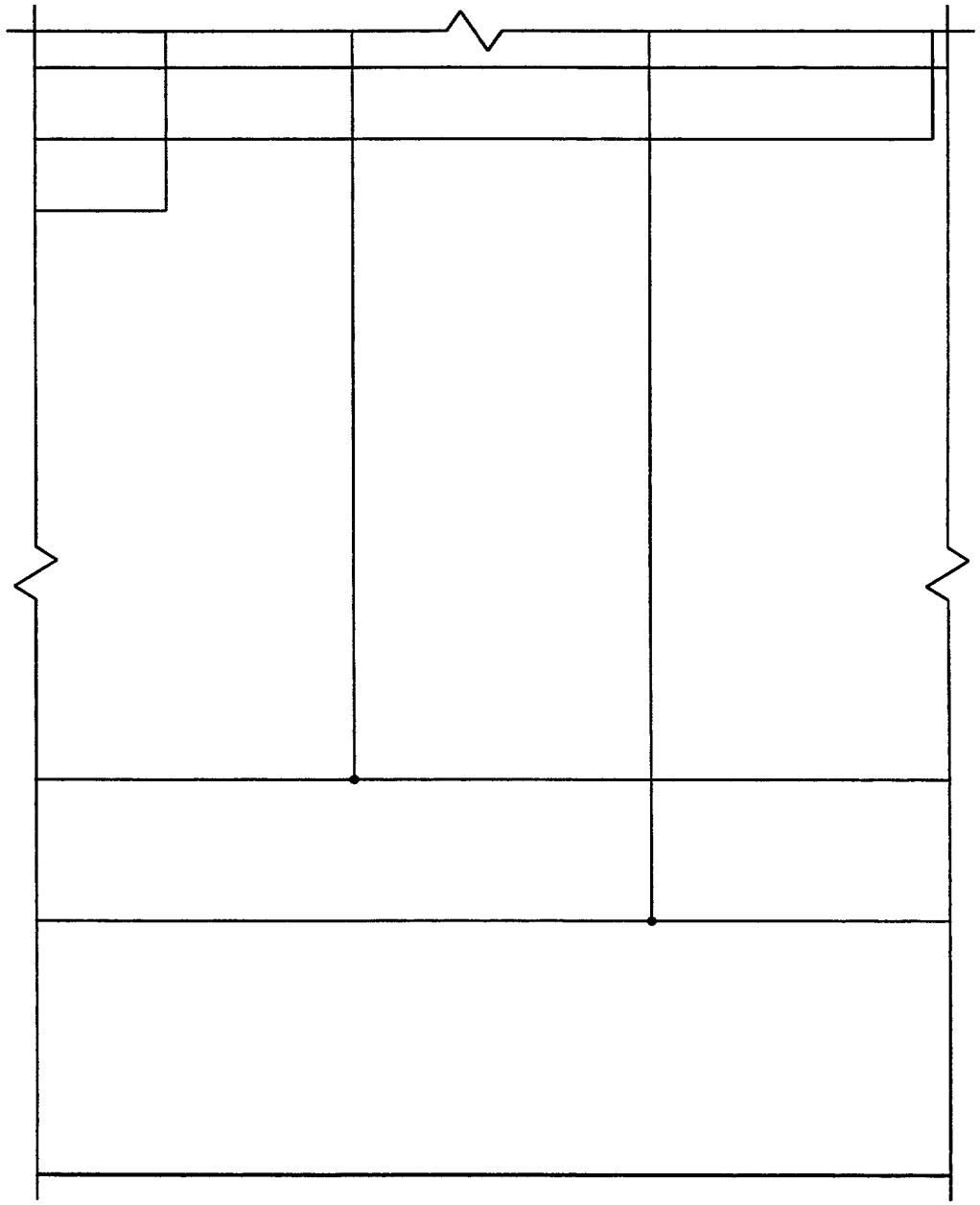


Рис 7.03098С

Копия электронного документа

0962265 .0054404

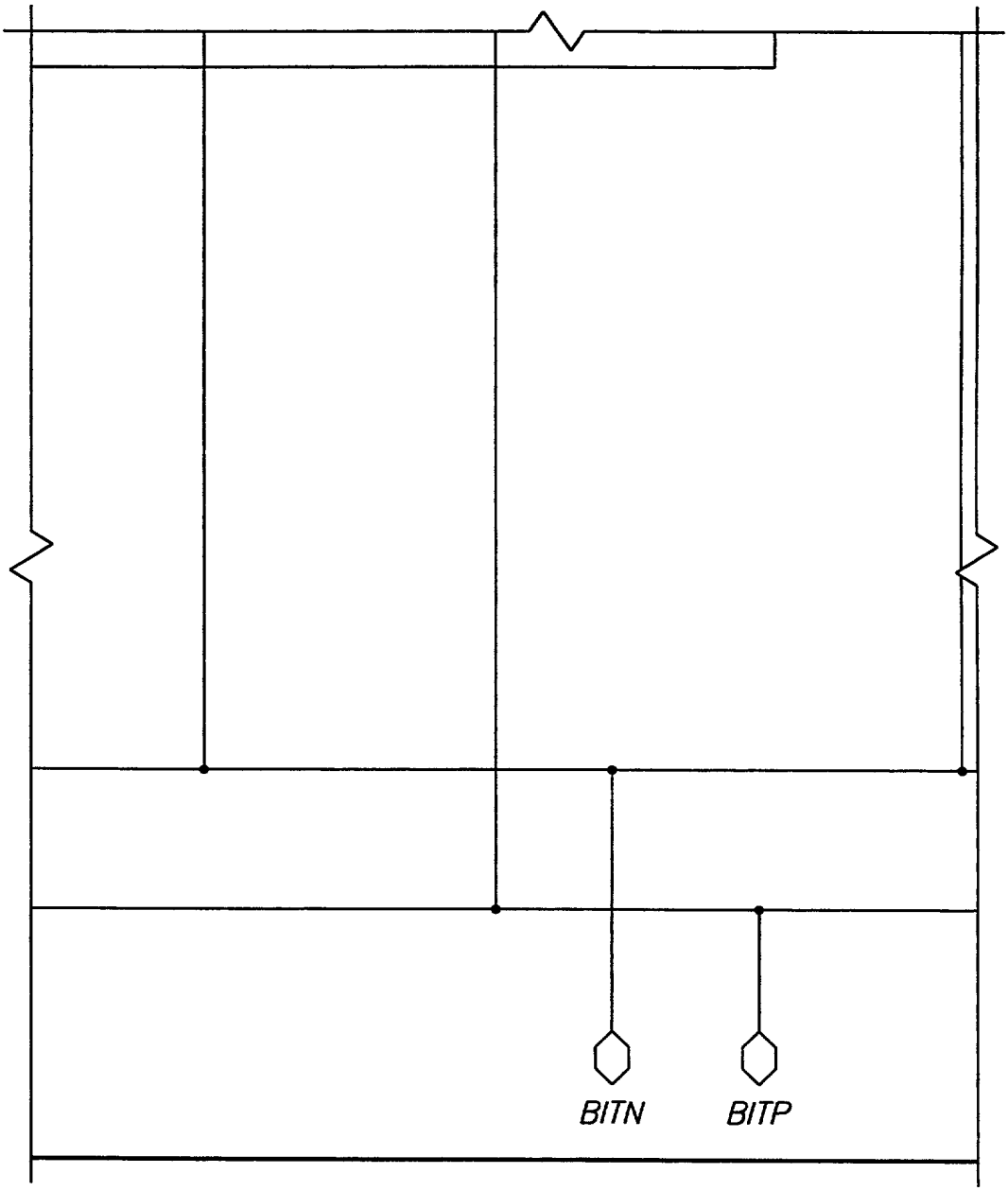
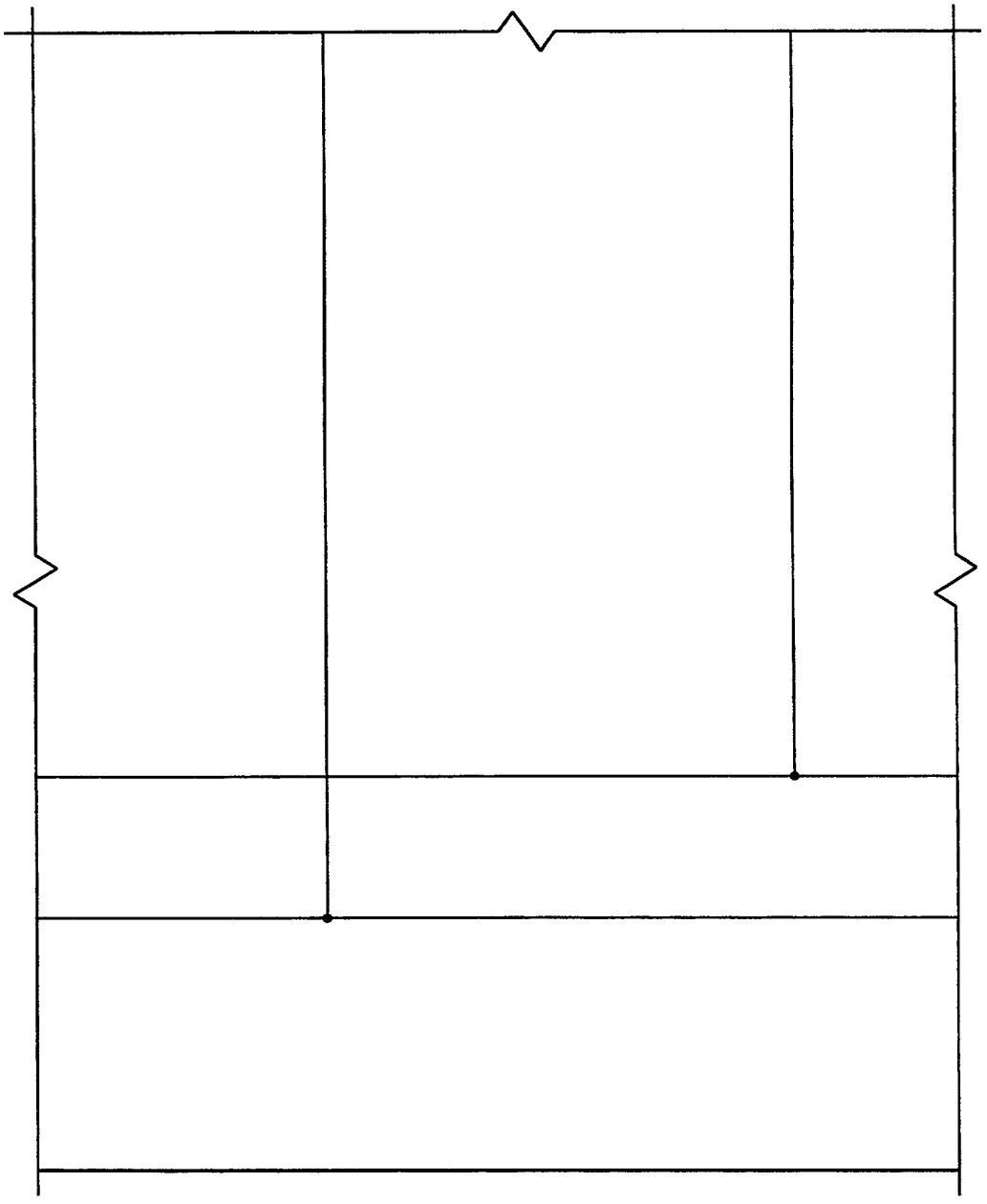


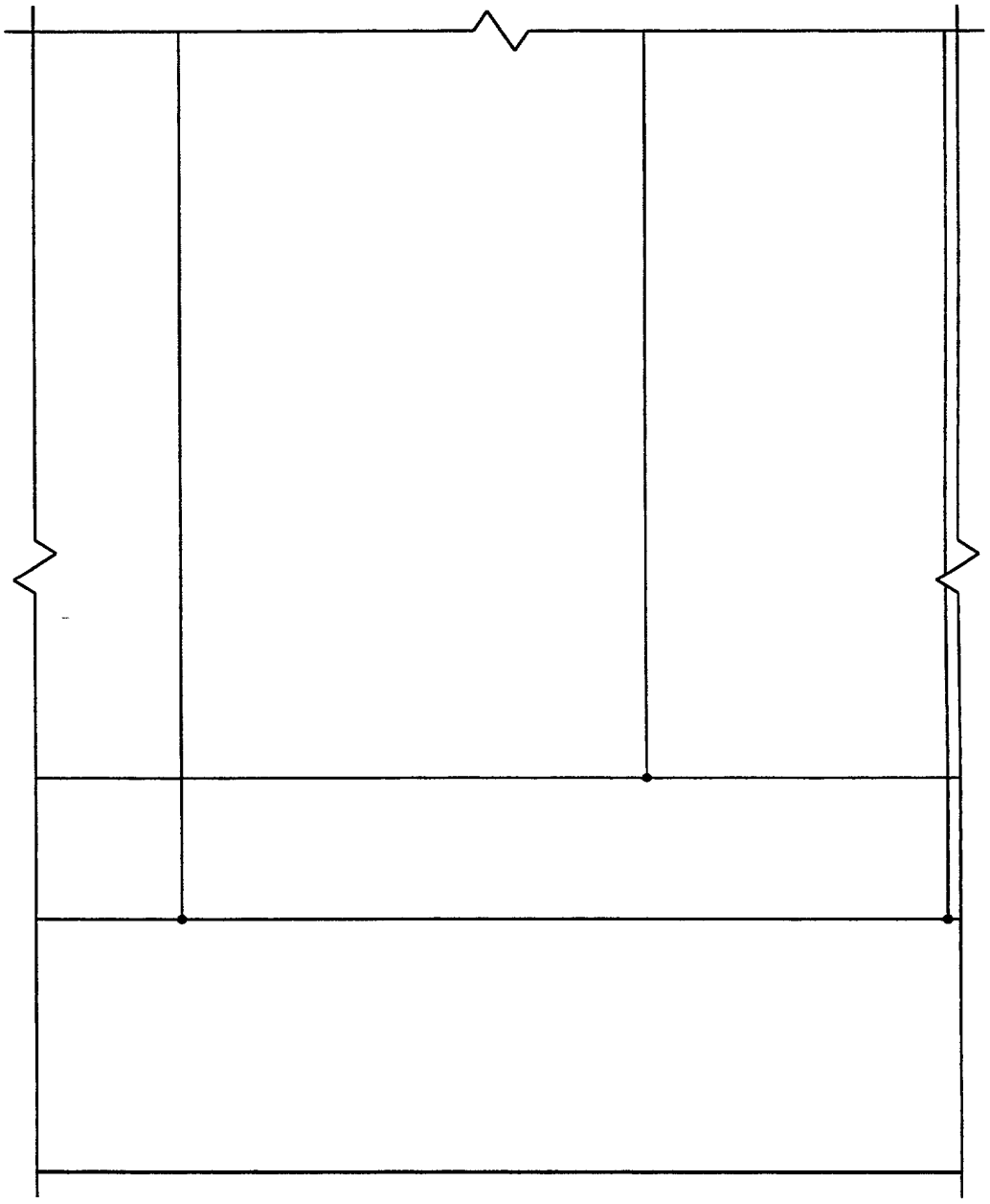
Fig 1.03009BD



Фиг 1.03099BE

Patentanwälte - 06.04.2015

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Ед 1.030096ВГ

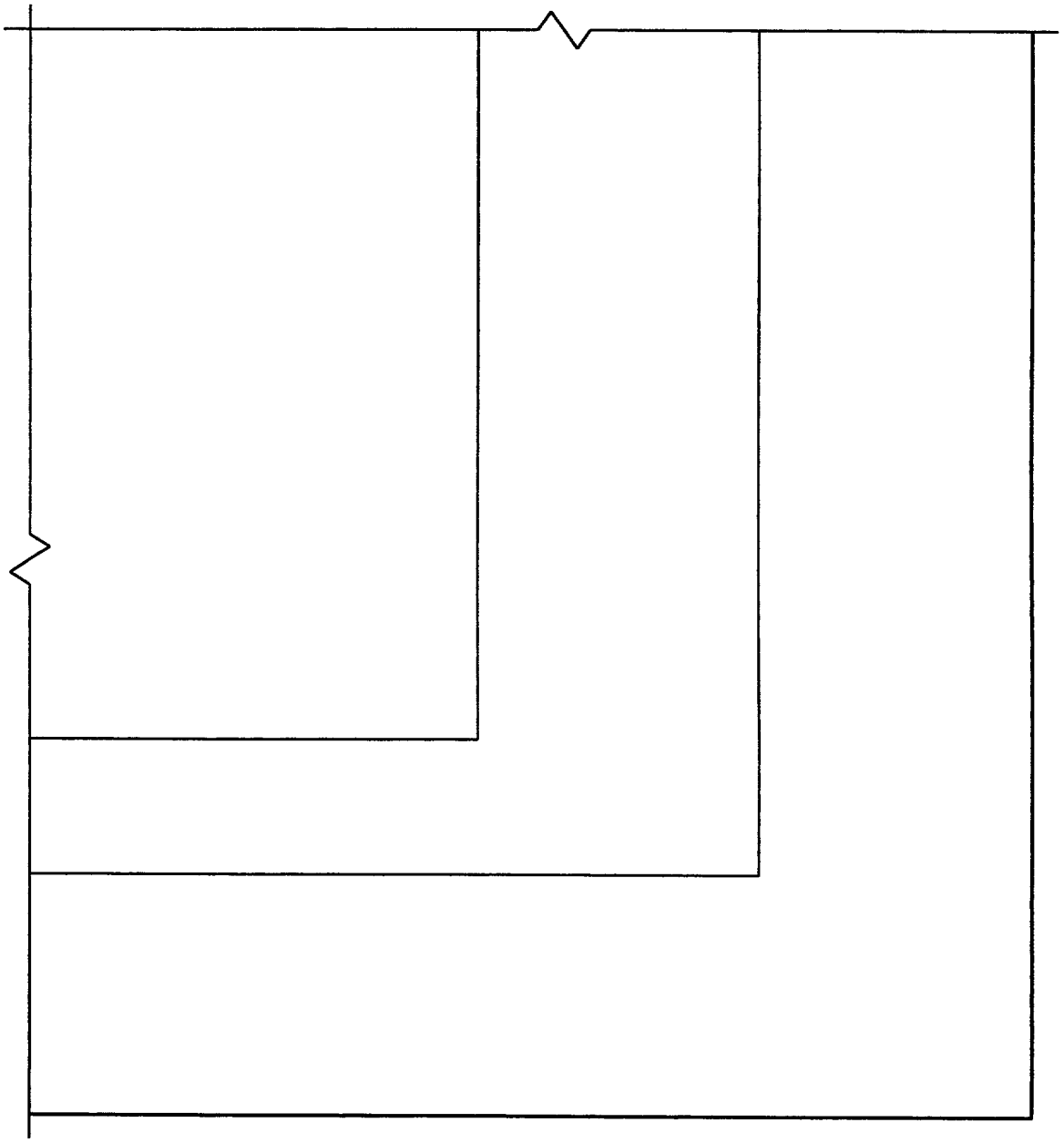


Fig 1.0309B6

Printed: 25/09/2015

TOTTSD*E9028860

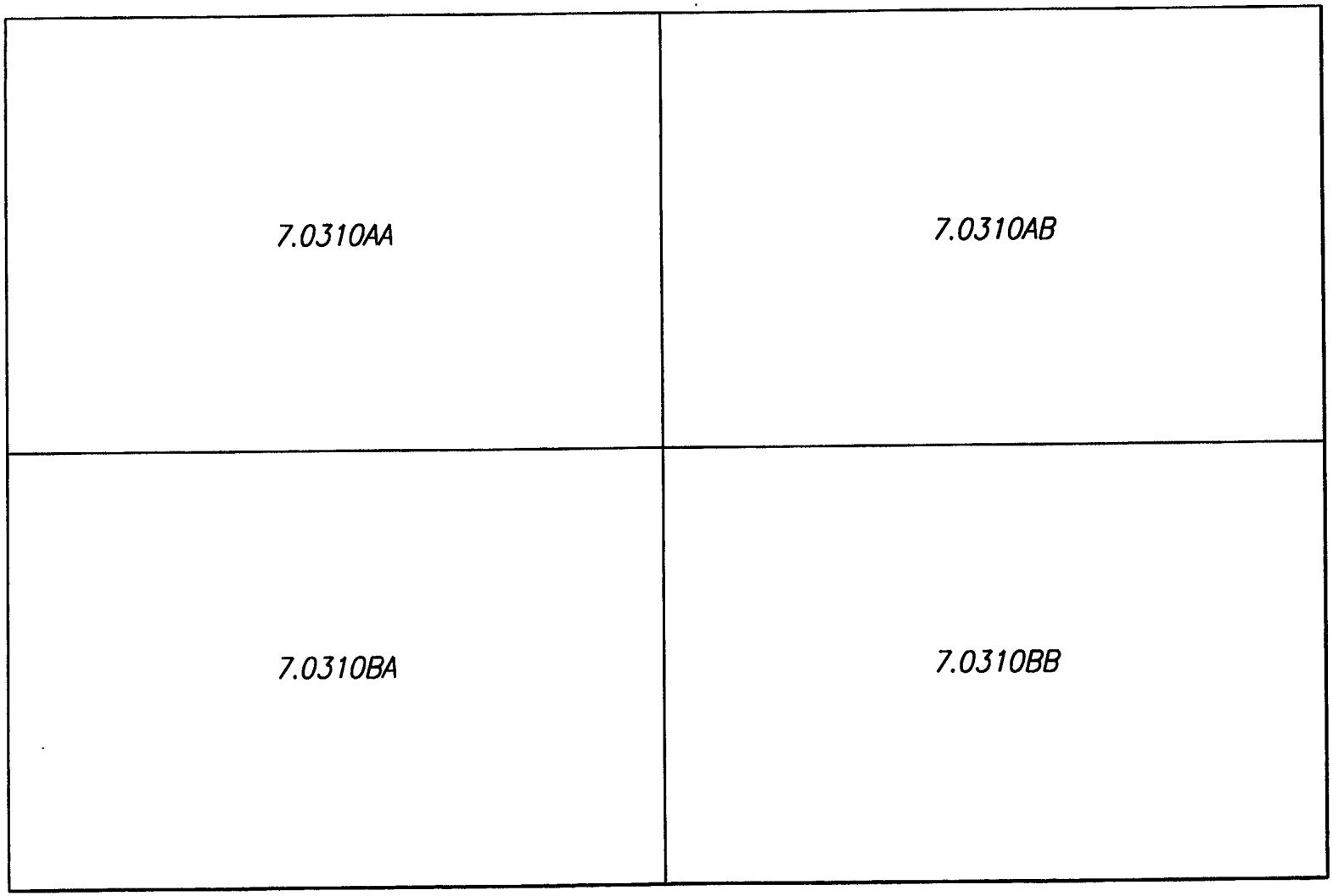
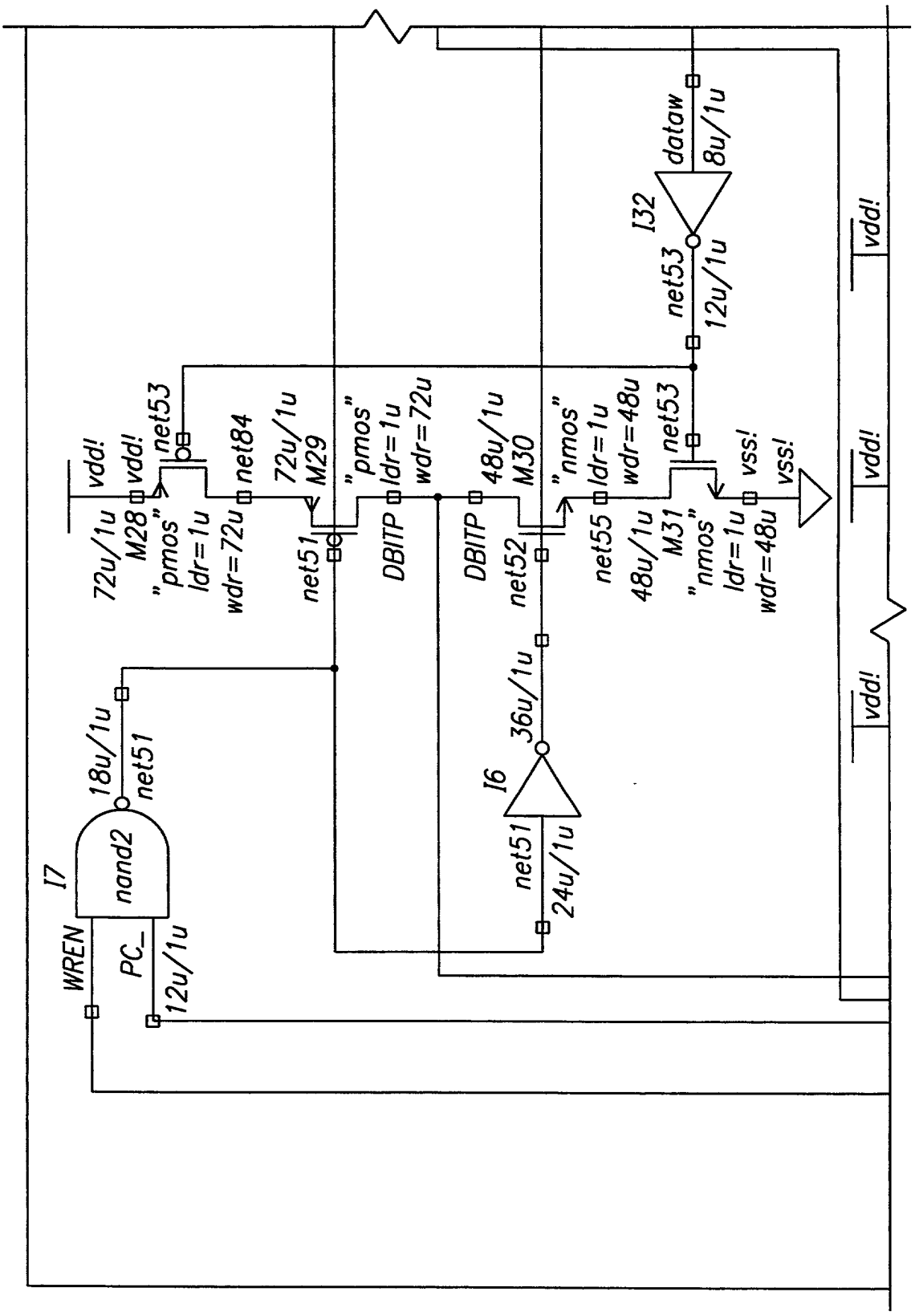
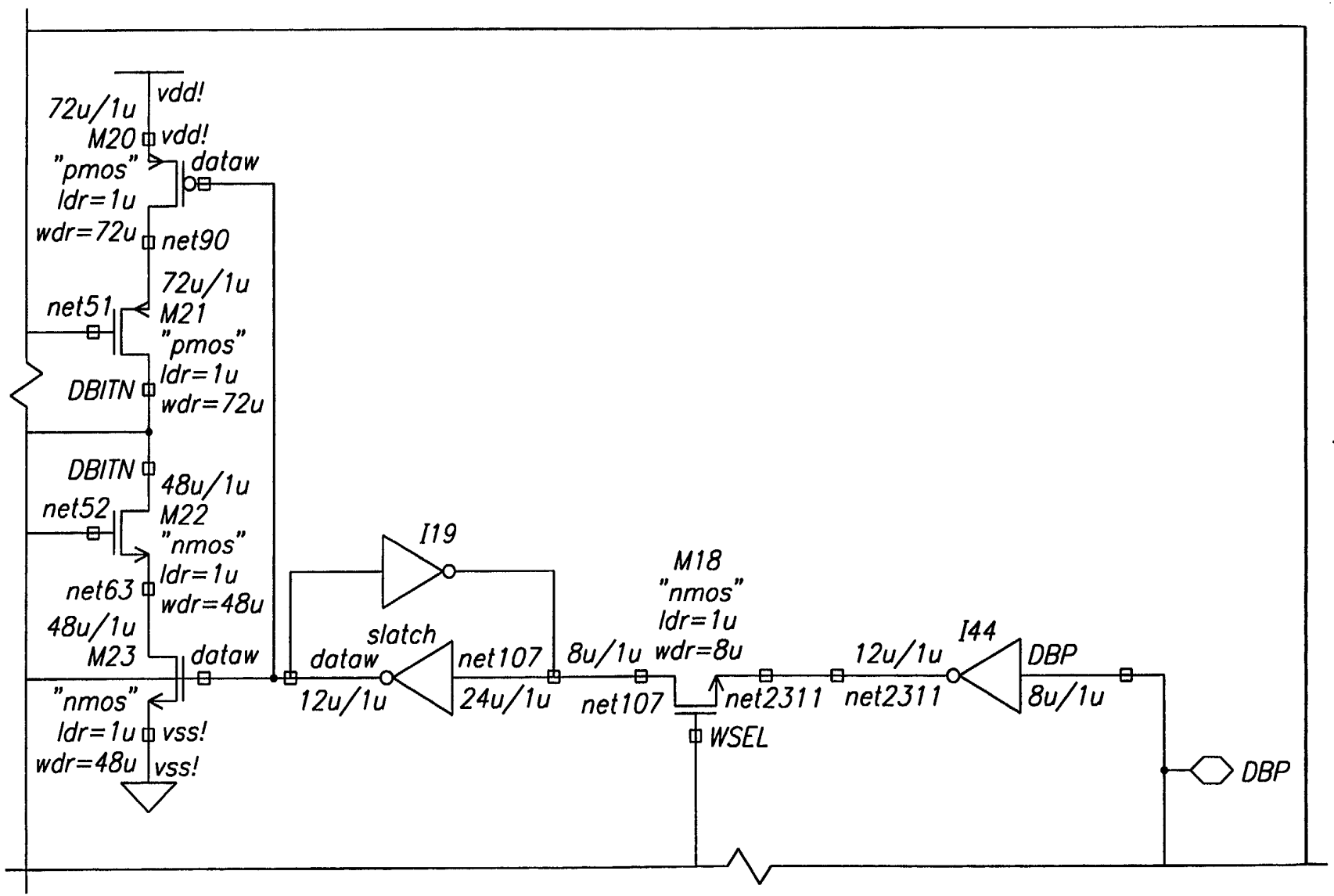


Fig 7.0310


vdd!
vss!
I7
nand2
WREN
PC_
18u/1u
12u/1u
net51
I6
36u/1u
24u/1u
net51
M28
"pmos"
ldr=1u
wdr=72u
72u/1u
vdd!
net53
net84
M29
72u/1u
net51
DBITP
"pmos"
ldr=1u
wdr=72u
DBITP
M30
48u/1u
net52
"nmos"
ldr=1u
wdr=48u
net55
M31
48u/1u
"nmos"
ldr=1u
wdr=48u
vss!
net53
I32
12u/1u
net53
8u/1u
datax

Фиг. 11



294/3273

Fig 1.031008

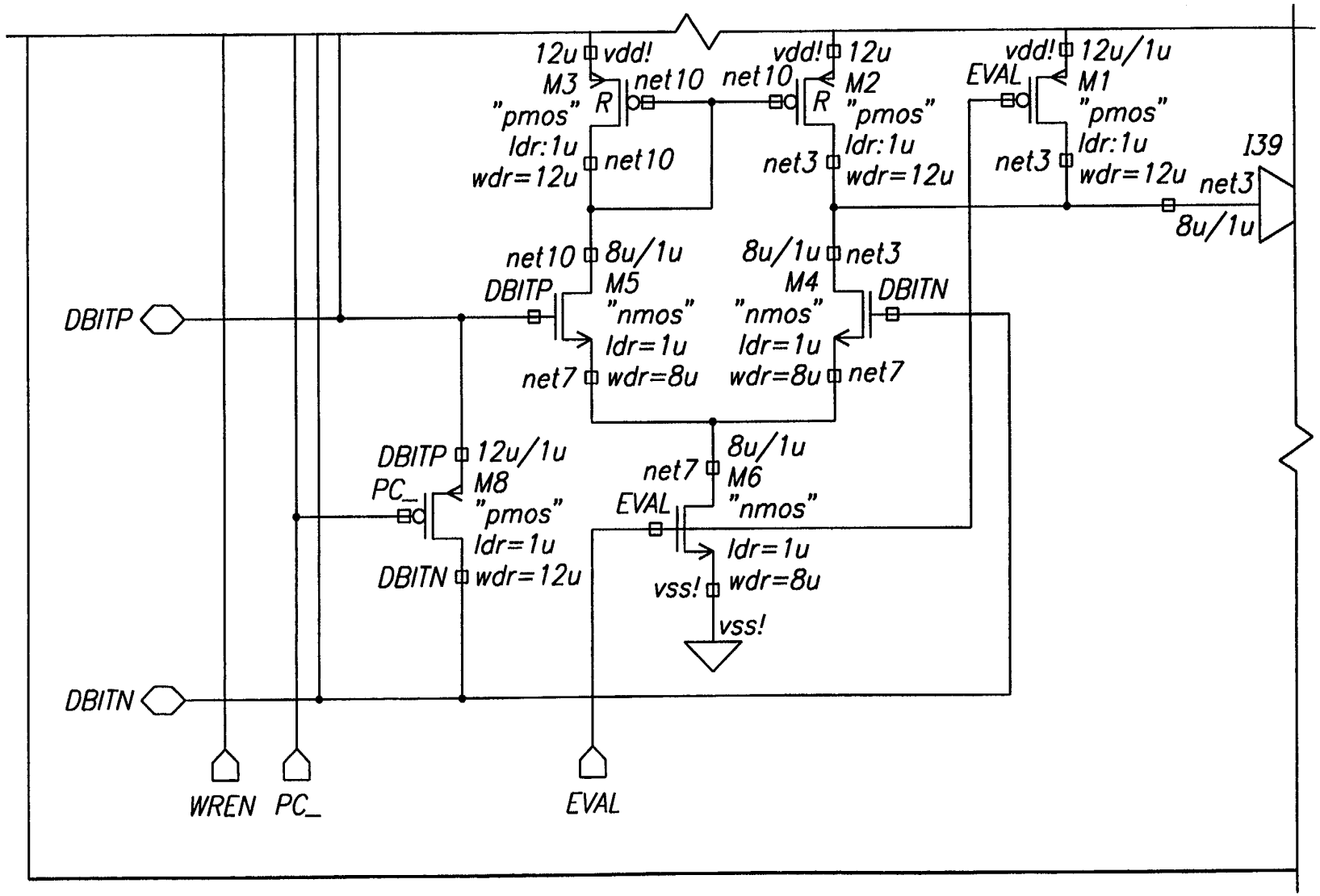

12u
vdd!
M3
"pmos"
R
ldr:1u
wdr=12u
net10
net10
vdd!
12u
M2
"pmos"
R
ldr:1u
wdr=12u
net3
vdd!
12u/1u
EVAL
M1
"pmos"
ldr:1u
wdr=12u
net3
I39
net3
8u/1u
net10
8u/1u
DBITP
M5
"nmos"
ldr=1u
wdr=8u
net7
8u/1u
net3
M4
"nmos"
ldr=1u
wdr=8u
net7
DBITN
DBITP
DBITP
12u/1u
M8
"pmos"
ldr=1u
wdr=12u
PC_
DBITN
8u/1u
net7
M6
"nmos"
ldr=1u
wdr=8u
EVAL
vss!
vss!
DBITP
DBITN
WREN
PC_
EVAL

Fig 7.03108A

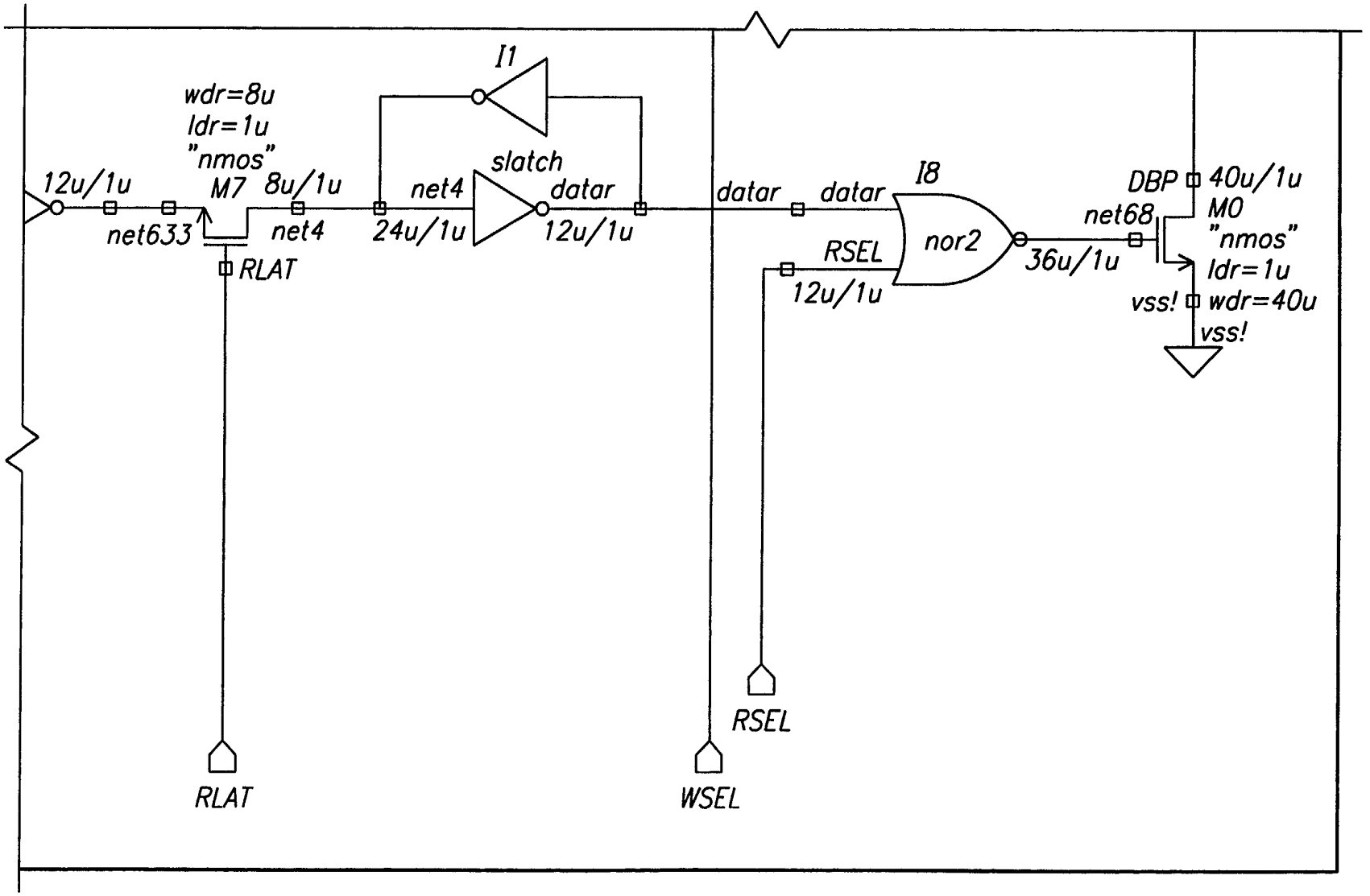


Fig 1.0031008B

7.04AA	7.04AB	7.04AC	7.04AD	7.04AE	7.04AF	7.04AG	7.04AH	7.04AI	7.04AJ
7.04BA	7.04BB	7.04BC	7.04BD	7.04BE	7.04BF	7.04BG	7.04BH	7.04BI	7.04BJ
7.04CA	7.04CB	7.04CC	7.04CD	7.04CE	7.04CF	7.04CG	7.04CH	7.04CI	7.04CJ
7.04DA	7.04DB	7.04DC	7.04DD	7.04DE	7.04DF	7.04DG	7.04DH	7.04DI	7.04DJ
7.04EA	7.04EB	7.04EC	7.04ED	7.04EE	7.04EF	7.04EG	7.04EH	7.04EI	7.04EJ
7.04FA	7.04FB	7.04FC	7.04FD	7.04FE	7.04FF	7.04FG	7.04FH	7.04FI	7.04FJ
7.04GA	7.04GB	7.04GC	7.04GD	7.04GE	7.04GF	7.04GG	7.04GH	7.04GI	7.04GJ
7.04HA	7.04HB	7.04HC	7.04HD	7.04HE	7.04HF	7.04HG	7.04HH	7.04HI	7.04HJ

Fig 7.04

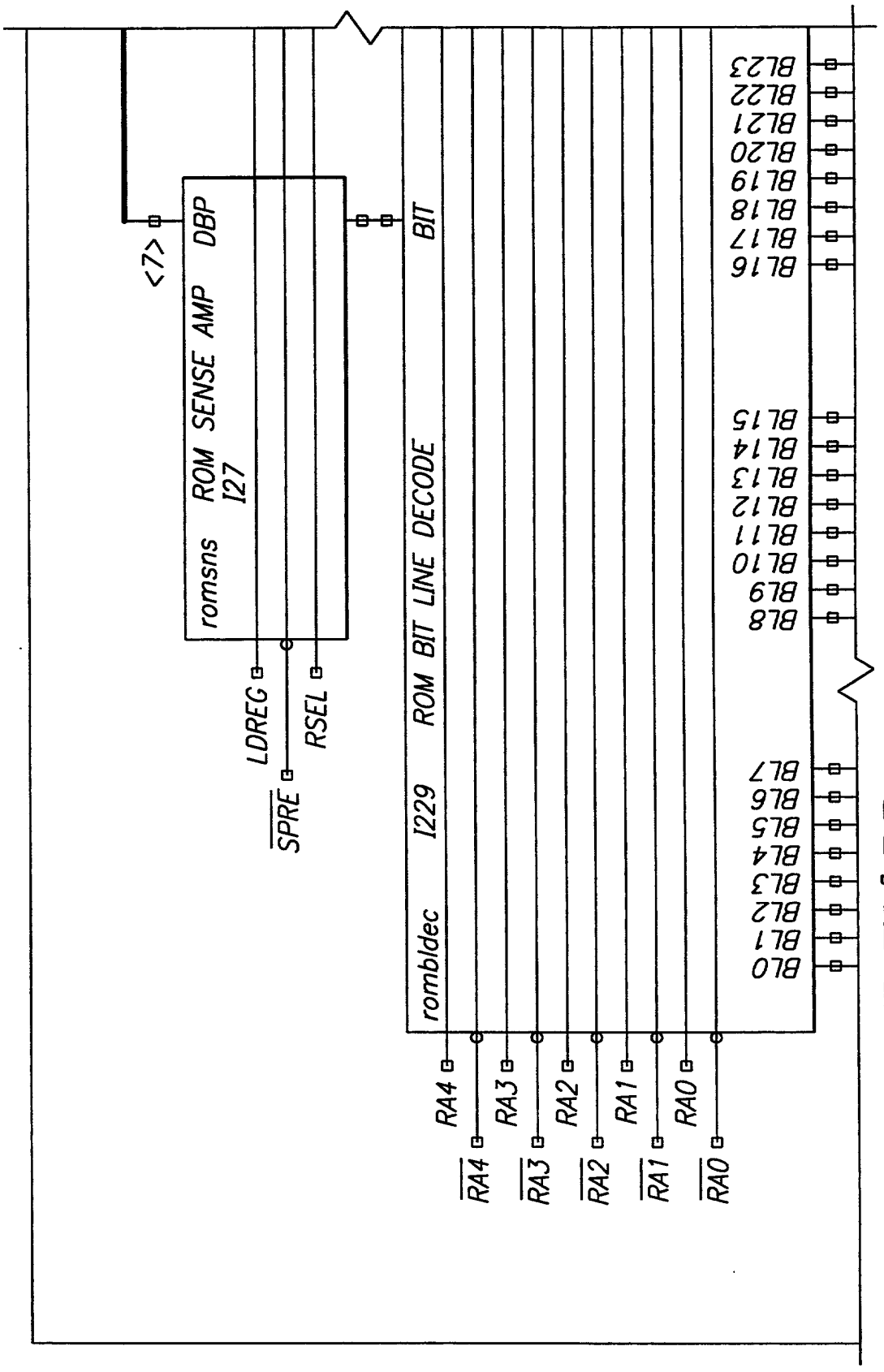
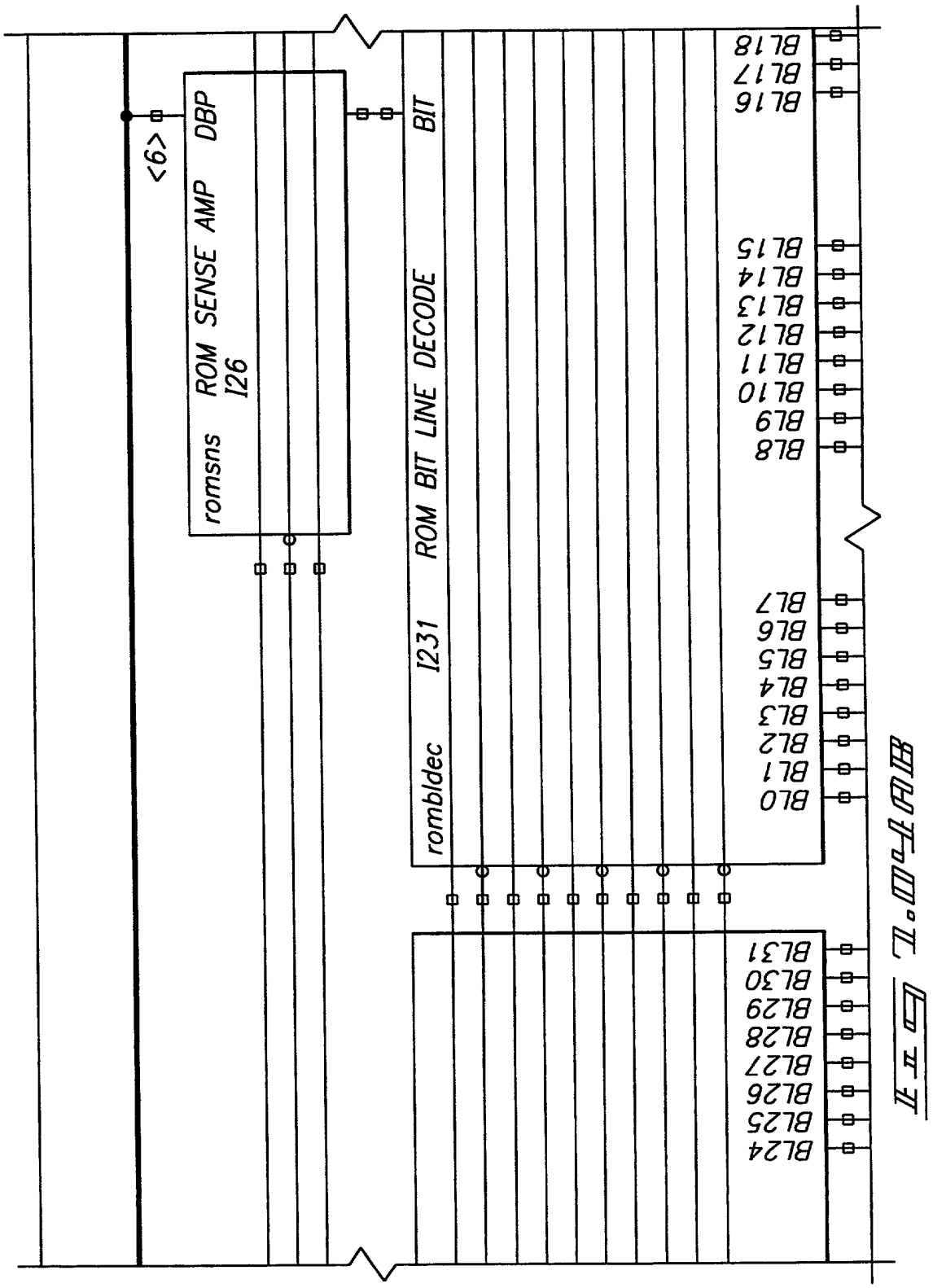
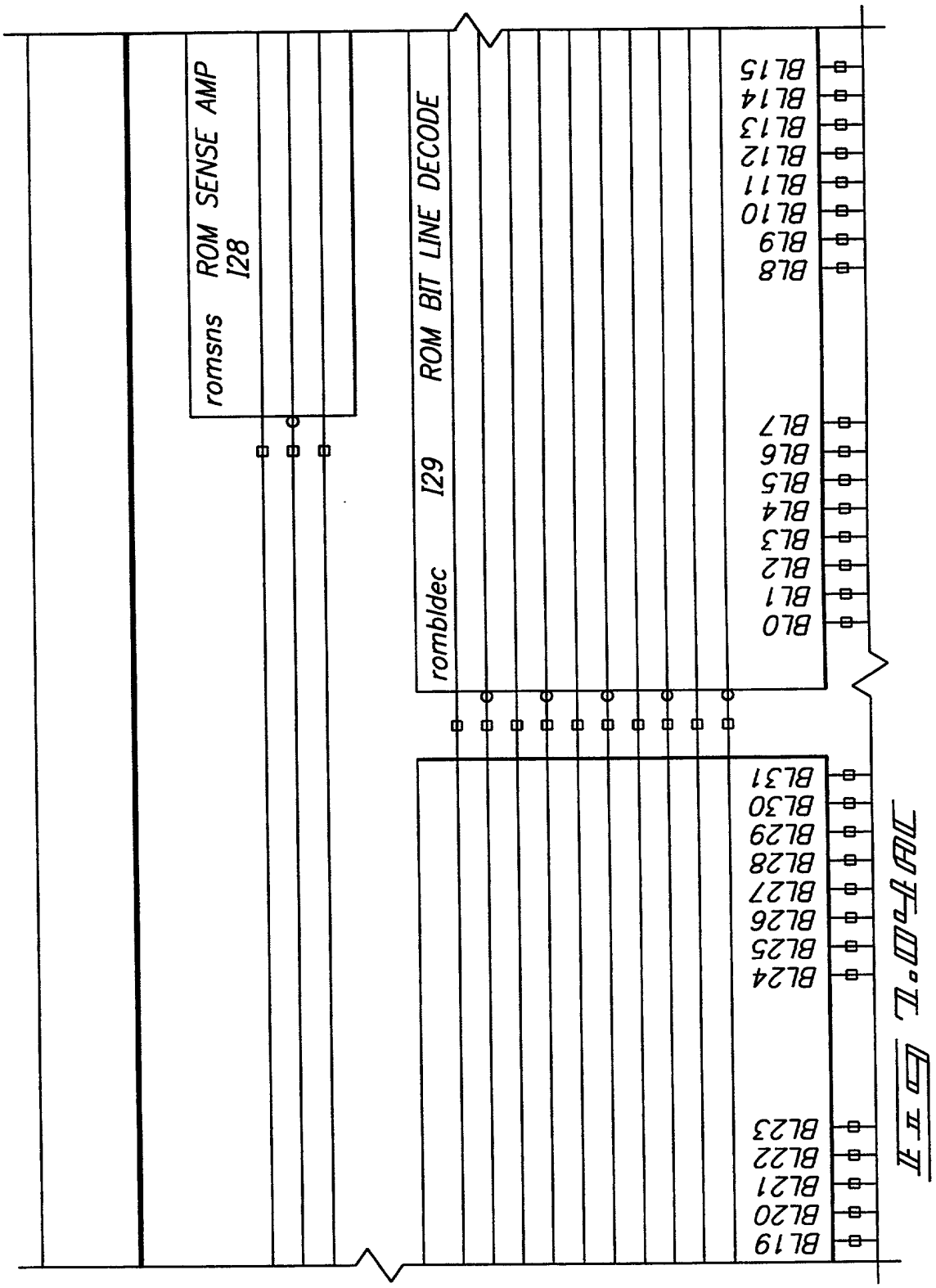
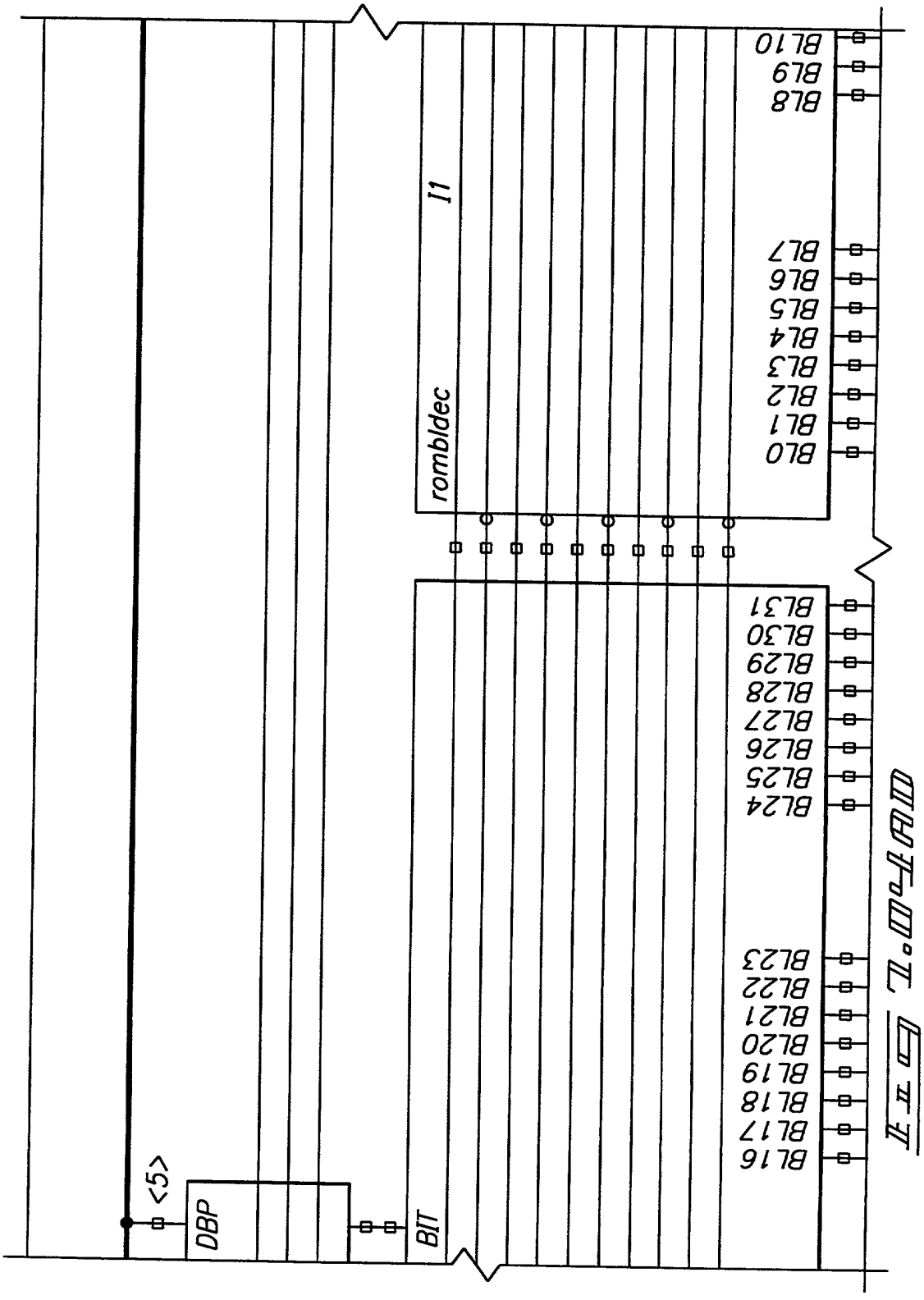

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I27
<7>
BIT
rombldec I229 ROM BIT LINE DECODE
LDREG
SPRE
RSEL
RA4
RA3
RA2
RA1
RA0
BL23
BL22
BL21
BL20
BL19
BL18
BL17
BL16
BL15
BL14
BL13
BL12
BL11
BL10
BL9
BL8
BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0

FIG. 11A

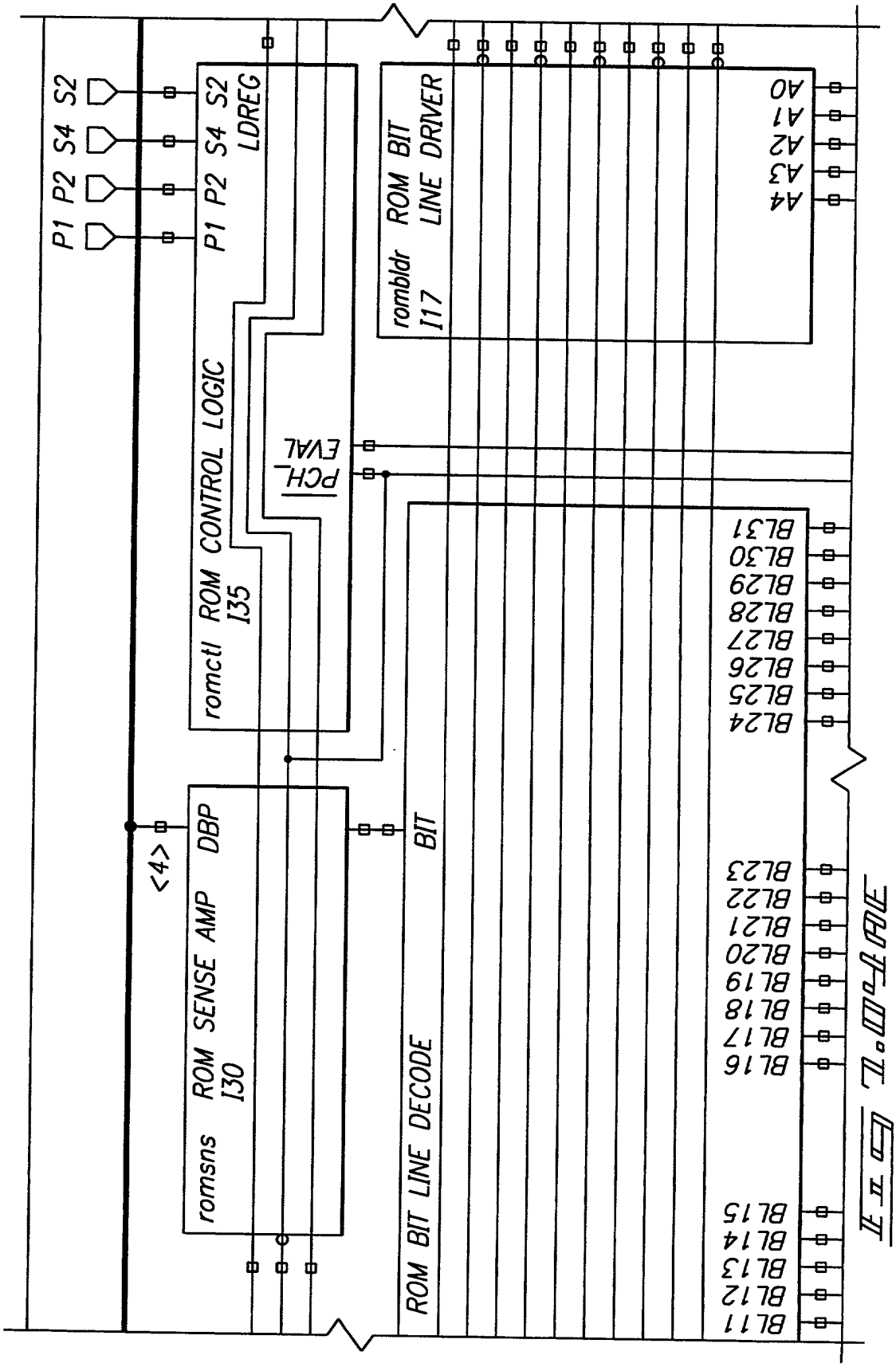


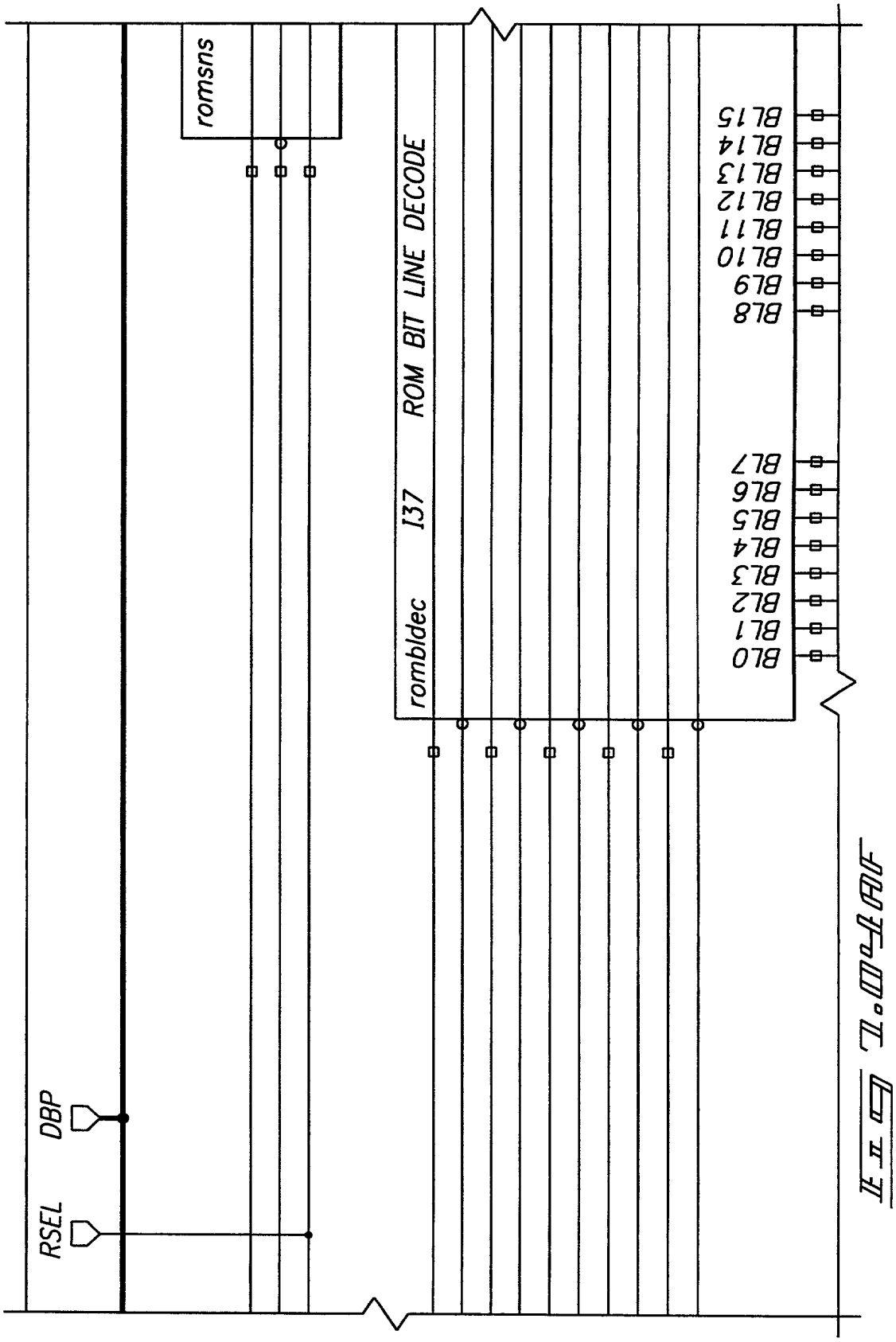
1c0f4e0-20050926-0922


romsns
ROM SENSE AMP
128
rombldec
129
ROM BIT LINE DECODE
BL0
BL1
BL2
BL3
BL4
BL5
BL6
BL7
BL8
BL9
BL10
BL11
BL12
BL13
BL14
BL15
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BL28
BL29
BL30
BL31

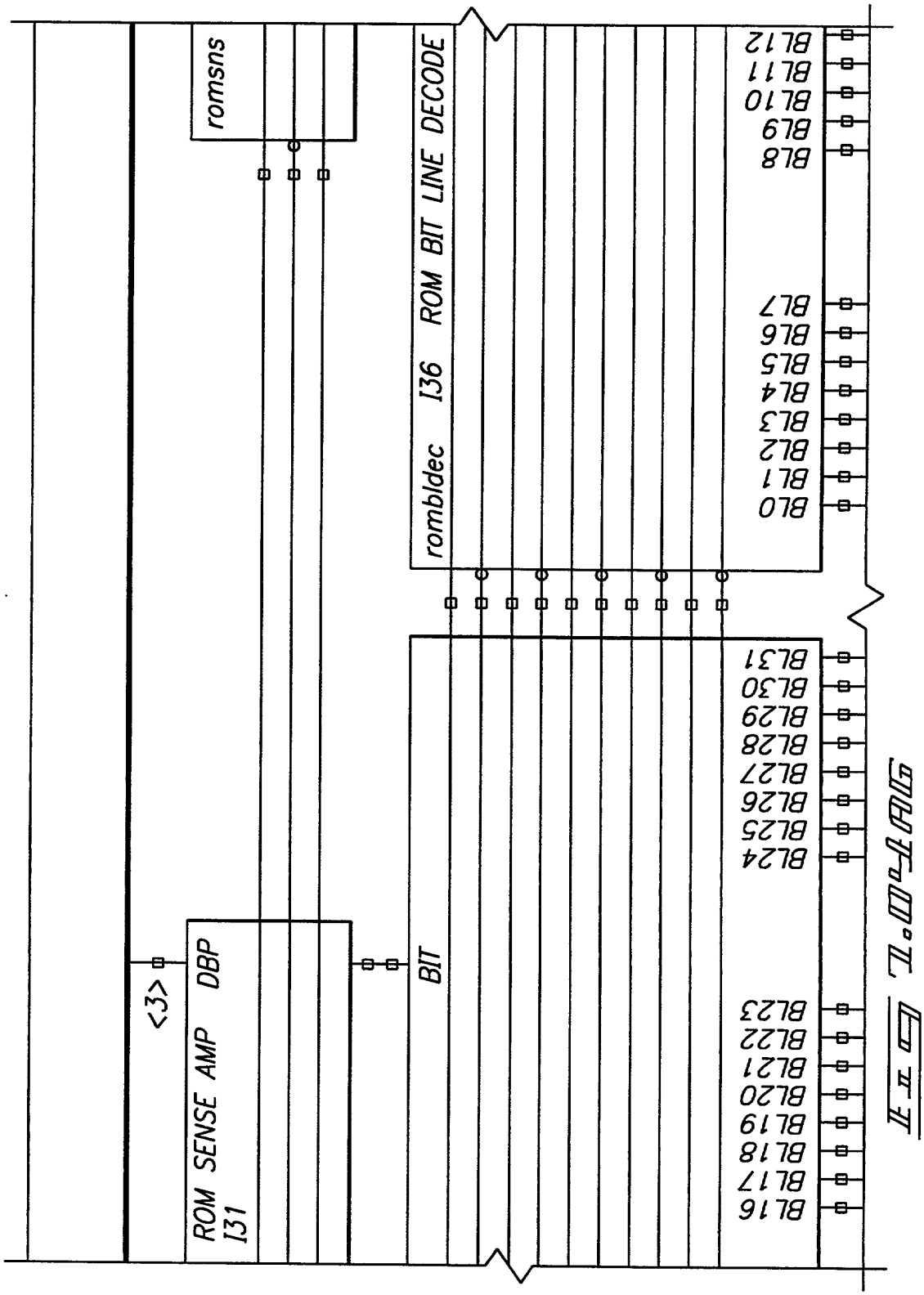


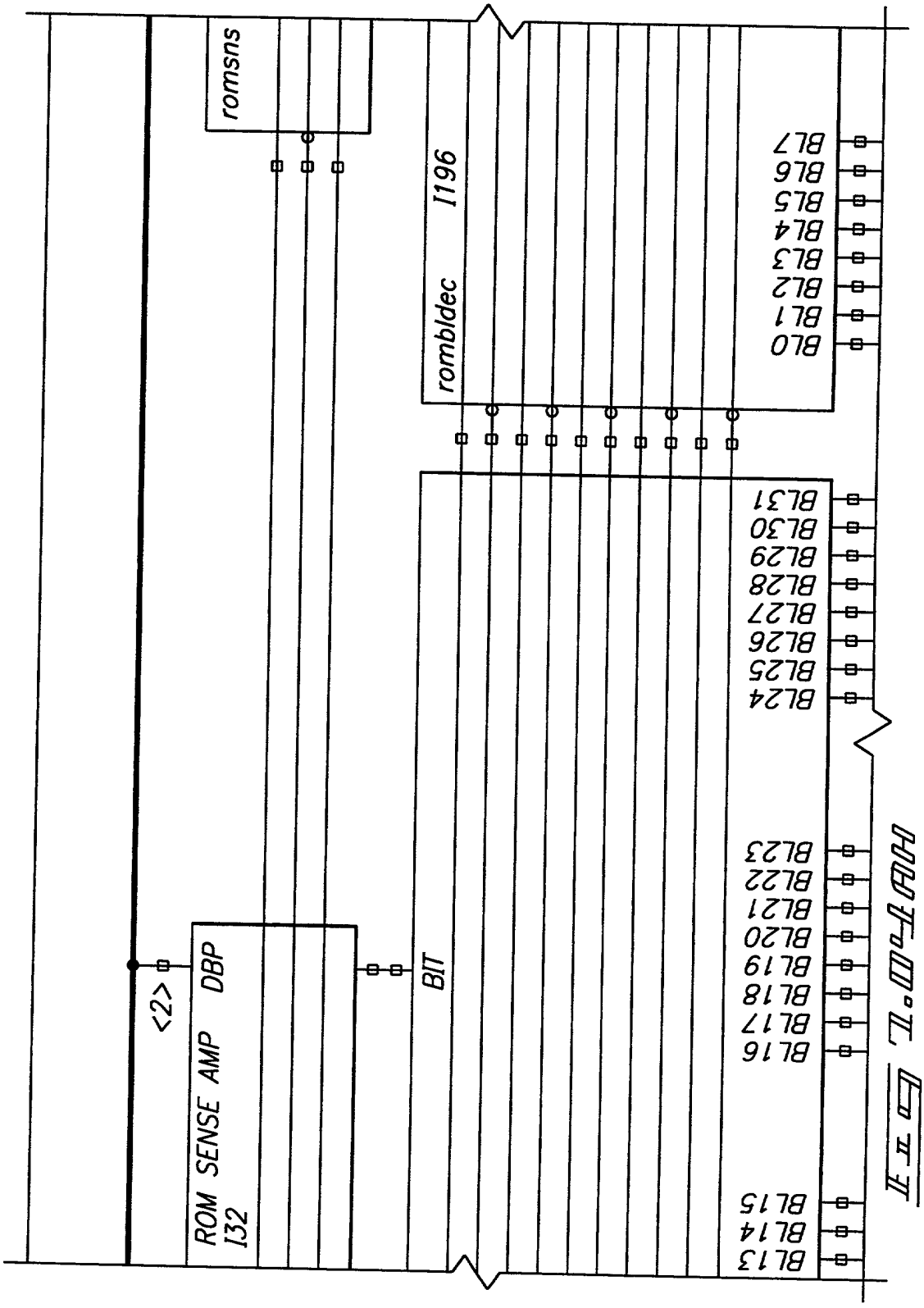
Patent 5,959,929

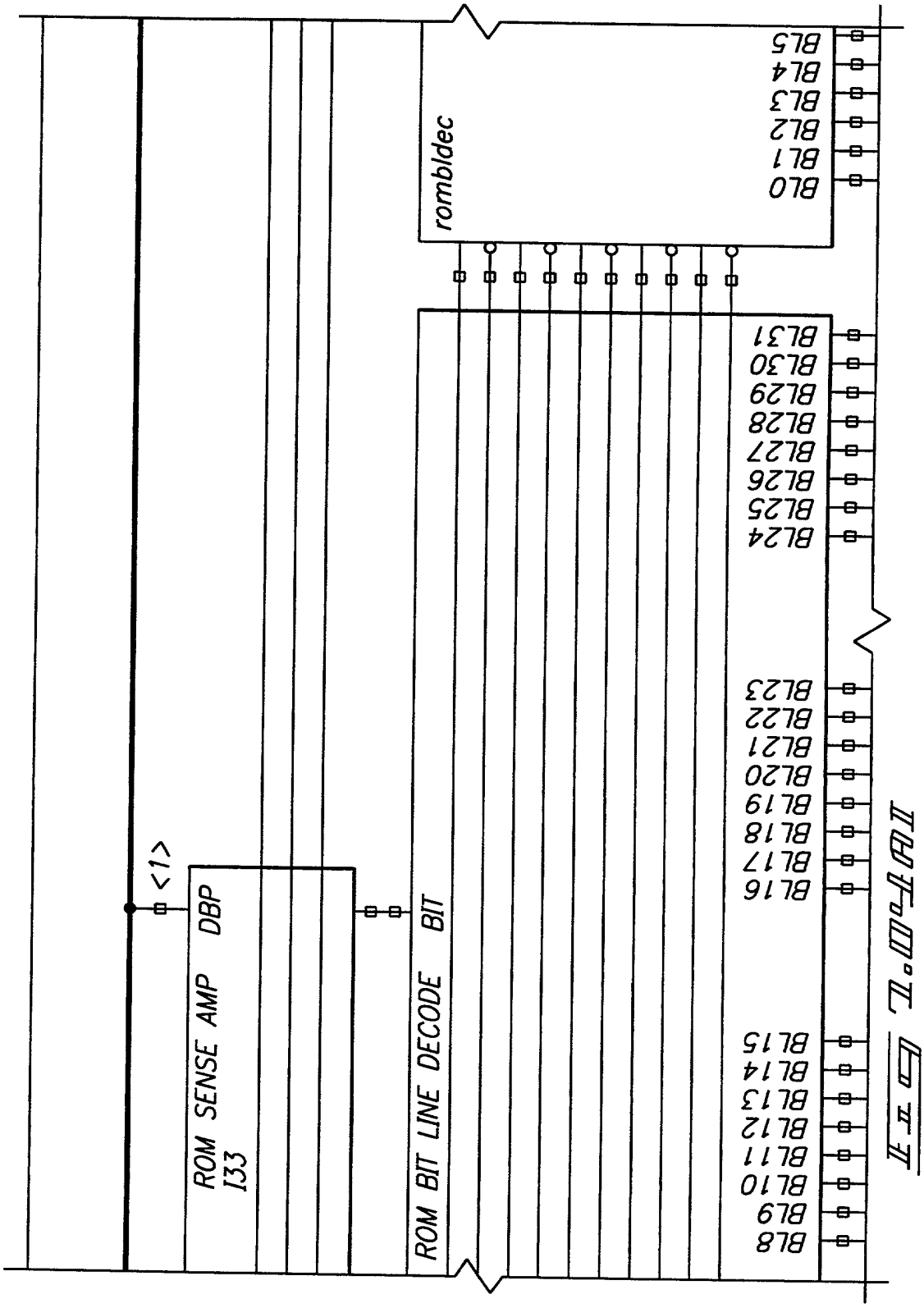

P1 P2 S4 S2
P1 P2 S4 S2 LDREG
romctl ROM CONTROL LOGIC I35
PCH_ EVAL
romsns ROM SENSE AMP I30
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DBP
ROM BIT LINE DECODE
BIT
rombldr ROM BIT LINE DRIVER I17
A0
A1
A2
A3
A4
BL31
BL30
BL29
BL28
BL27
BL26
BL25
BL24
BL23
BL22
BL21
BL20
BL19
BL18
BL17
BL16
BL15
BL14
BL13
BL12
BL11



10/15/90 P6CD2460


romsns
rombldec I36 ROM BIT LINE DECODE
BL12
BL11
BL10
BL9
BL8
BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0
BL31
BL30
BL29
BL28
BL27
BL26
BL25
BL24
BL23
BL22
BL21
BL20
BL19
BL18
BL17
BL16
<3>
ROM SENSE AMP DBP
I31
BIT
SUBFOOTL


romsns
rombldec 1196
BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0
BL31
BL30
BL29
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BL26
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BL15
BL14
BL13
HALF BL
BIT
<2>
ROM SENSE AMP DBP
132


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BL23
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BL17
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BL13
BL12
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BL10
BL9
BL8
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ROM SENSE AMP DBP
I33
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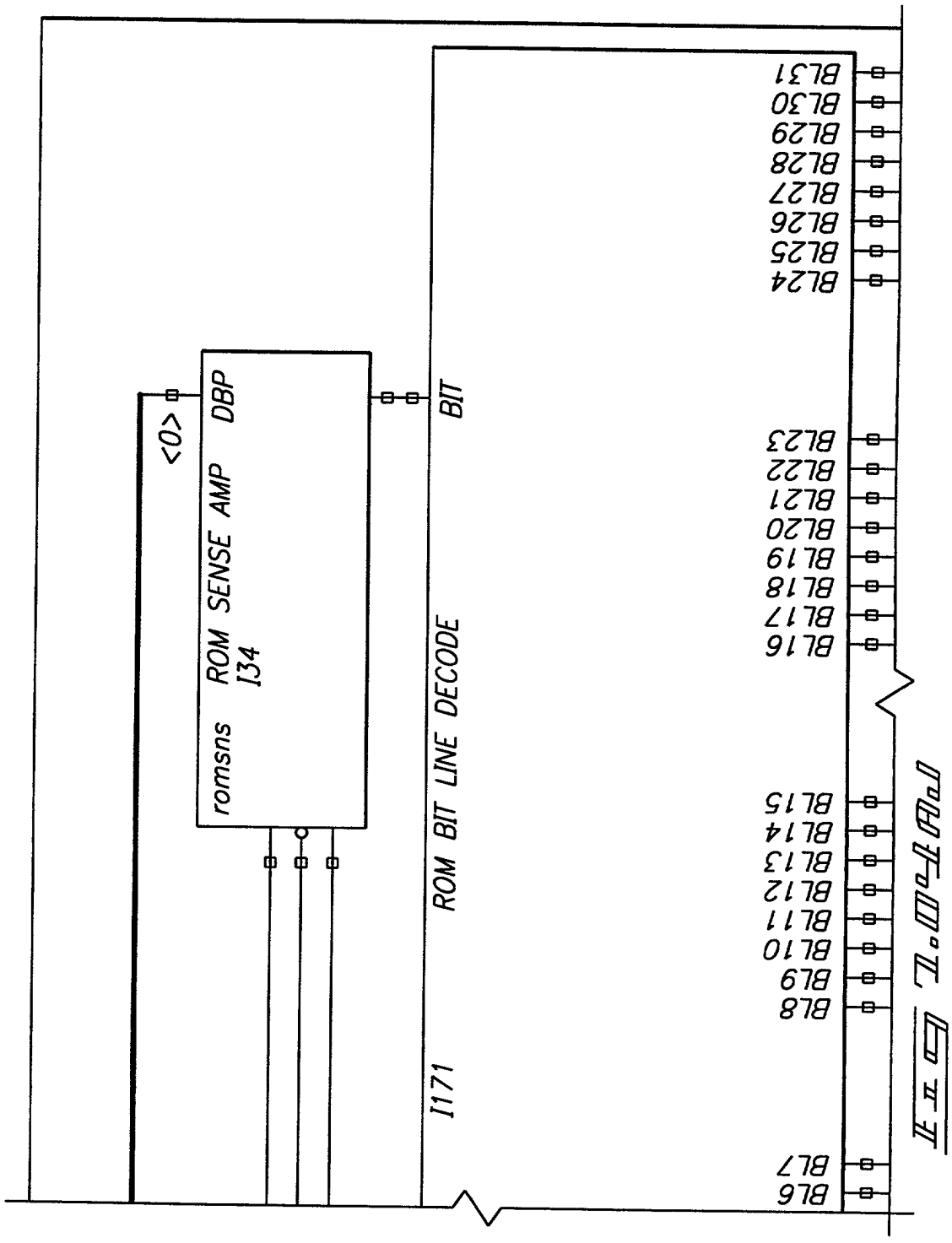

romsns
ROM SENSE AMP
I34
DBP
<0>
BIT
ROM BIT LINE DECODE
I171
BL31
BL30
BL29
BL28
BL27
BL26
BL25
BL24
BL23
BL22
BL21
BL20
BL19
BL18
BL17
BL16
BL15
BL14
BL13
BL12
BL11
BL10
BL9
BL8
BL7
BL6
FOLDED BL

FIG 6

WAFER

1017959 - 05/12/95

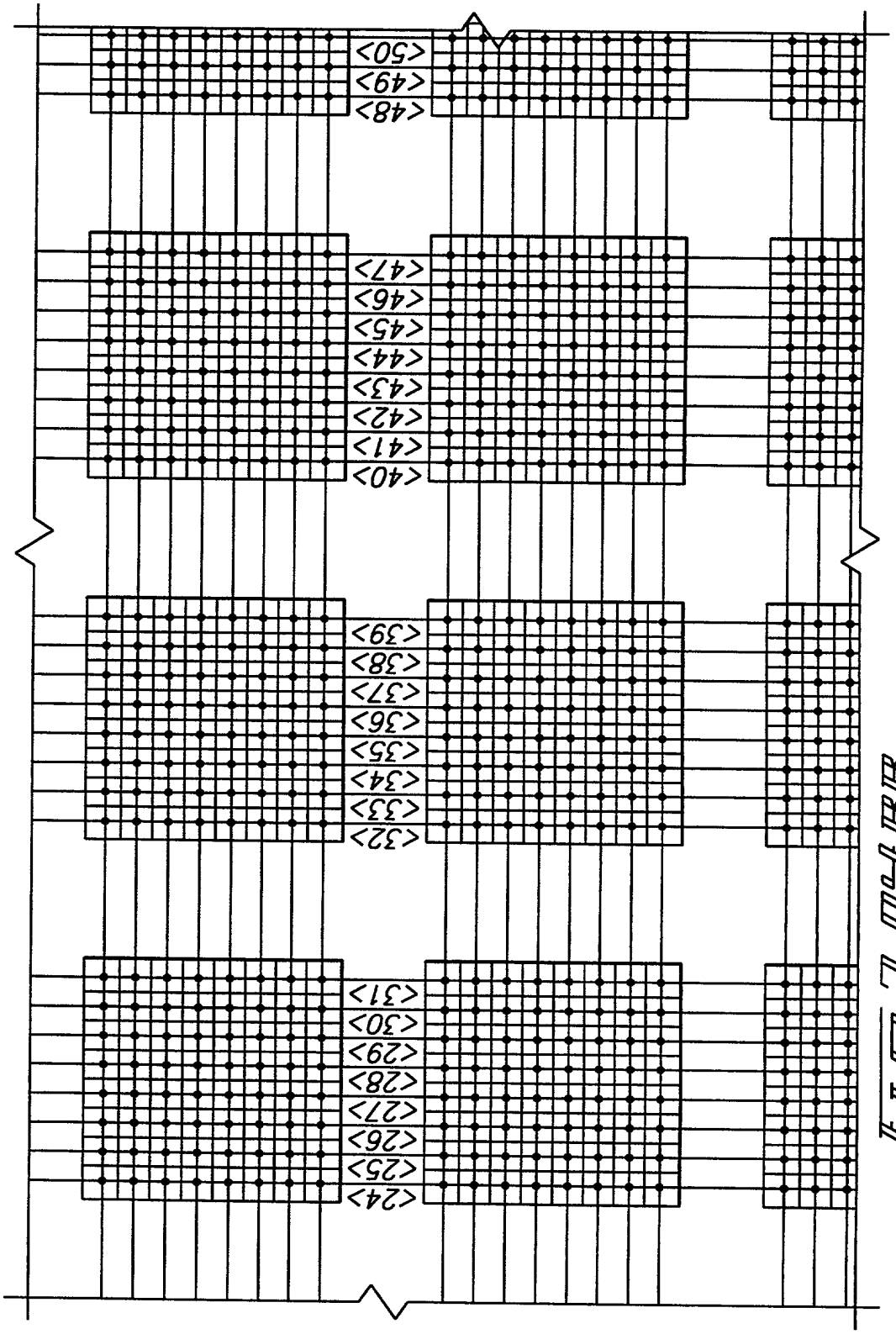
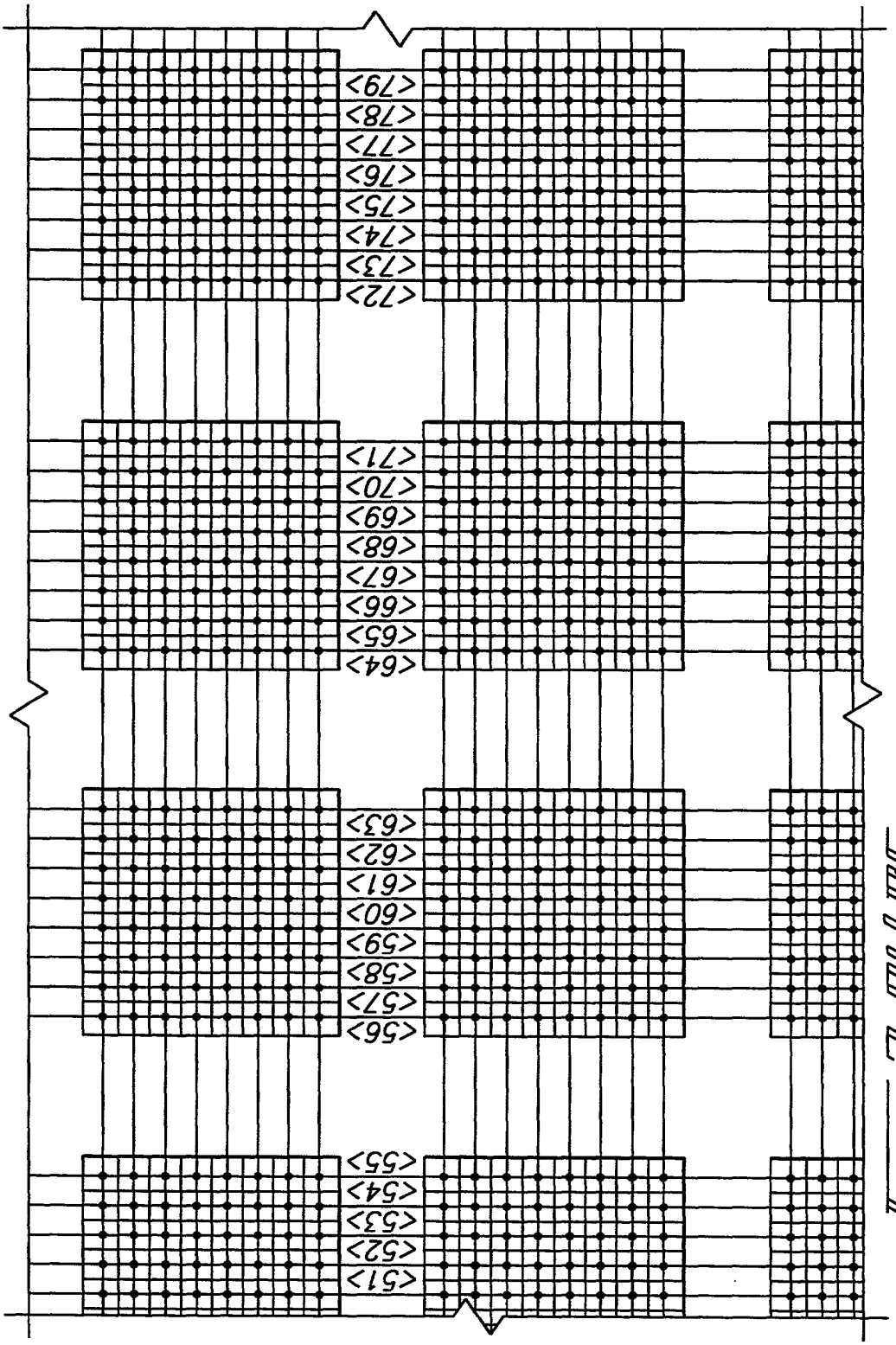
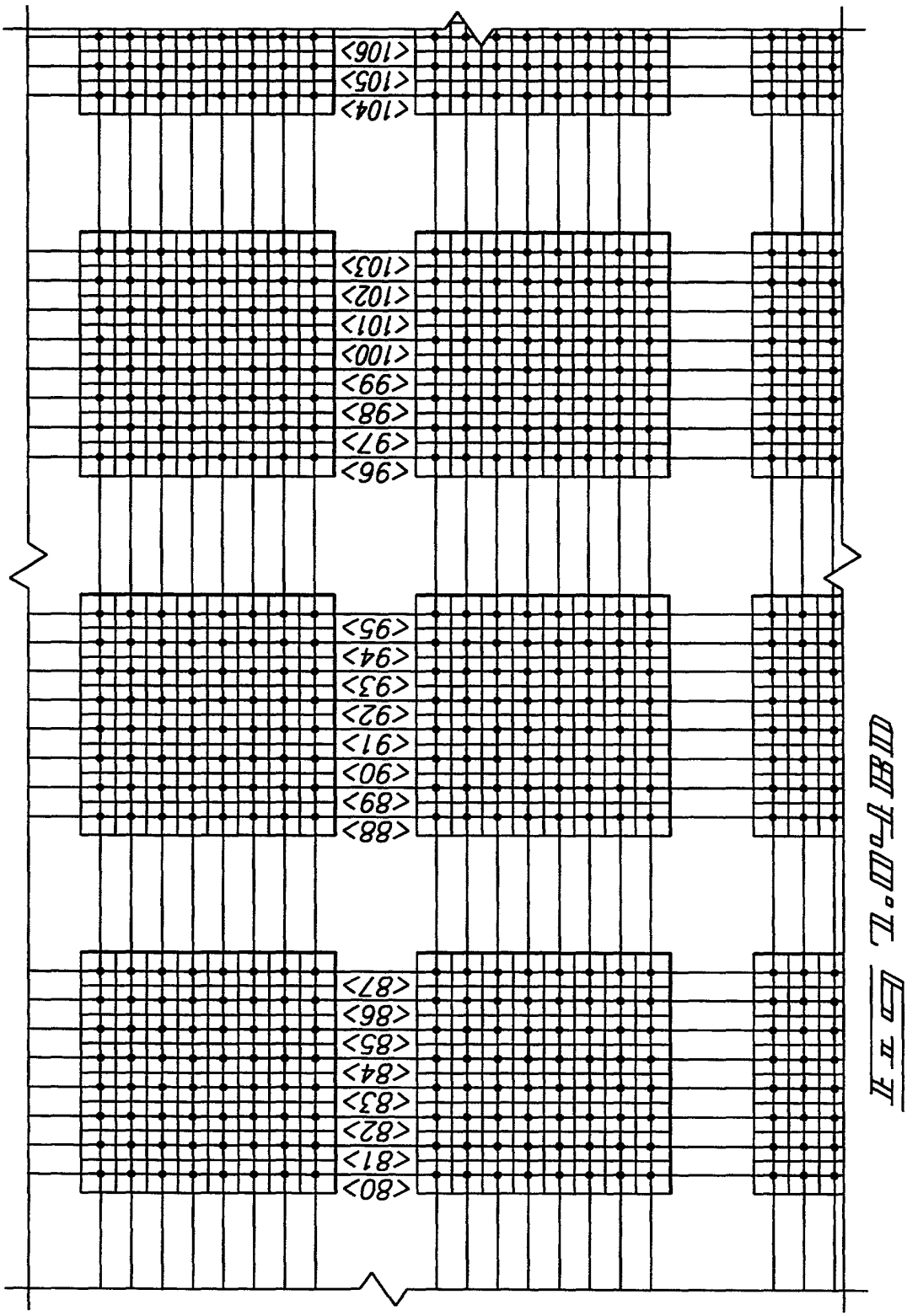


FIG. 10A

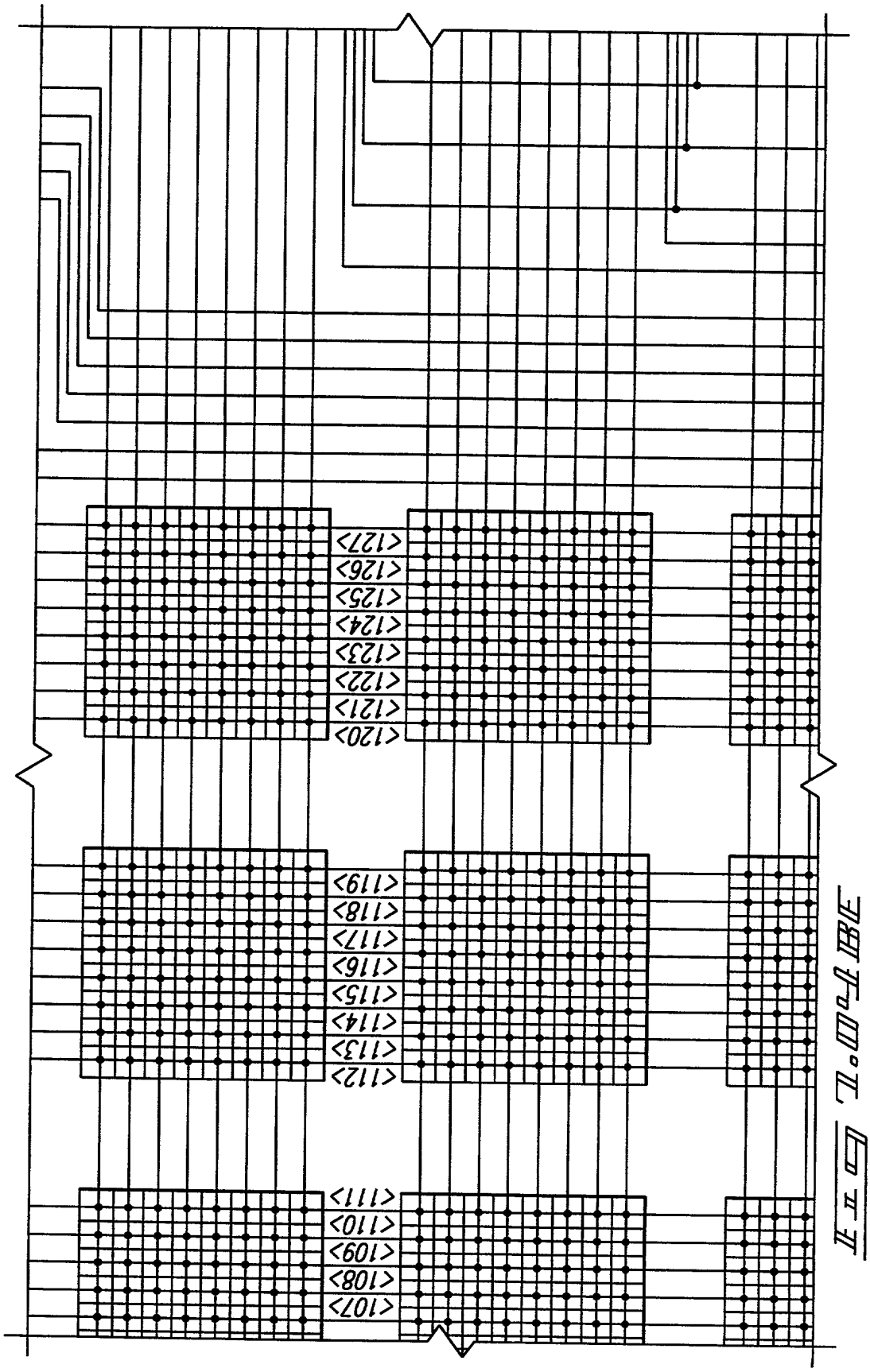
US 7,952,952 B2 - 05/31/2011



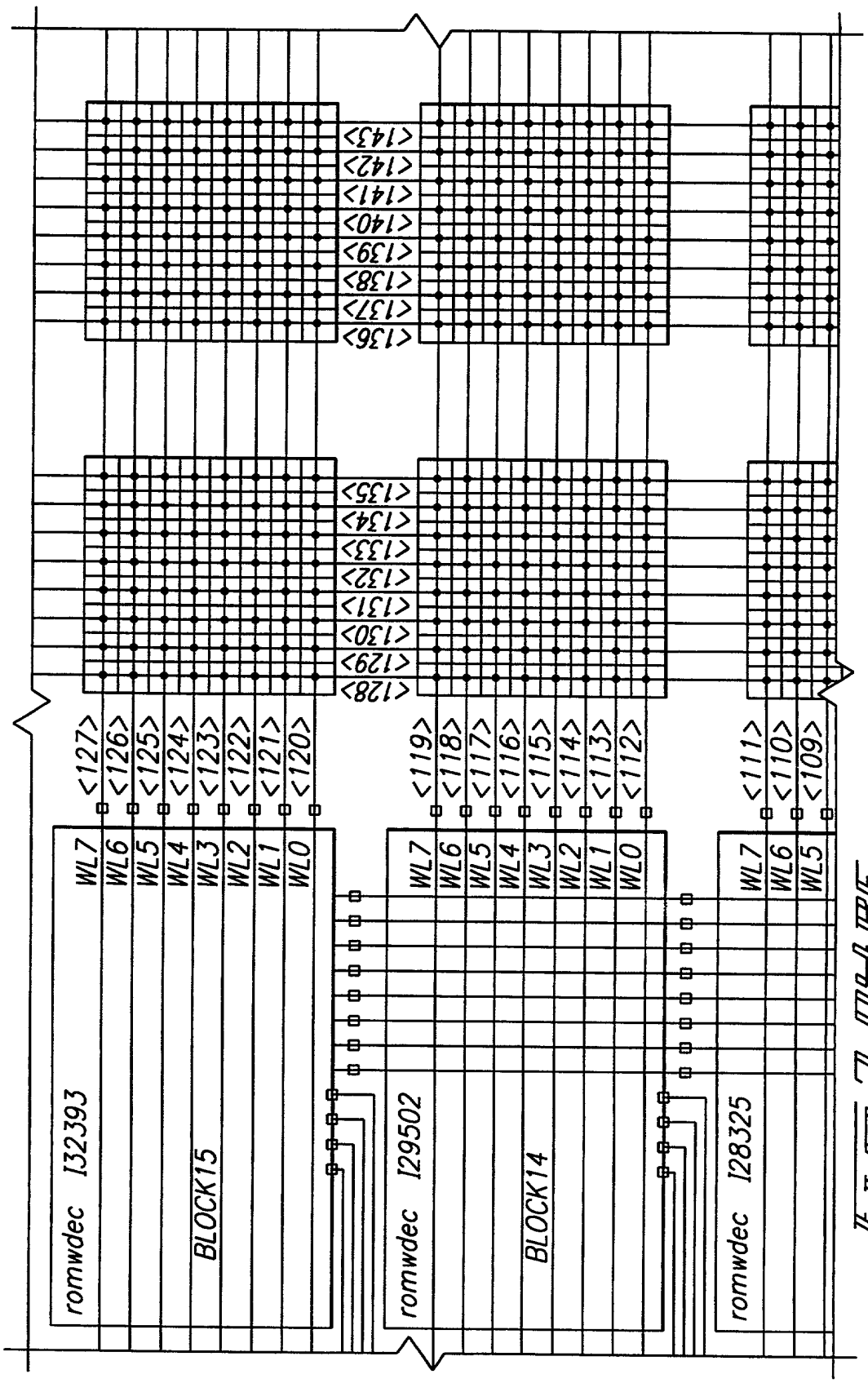
US 7,952,952 B2



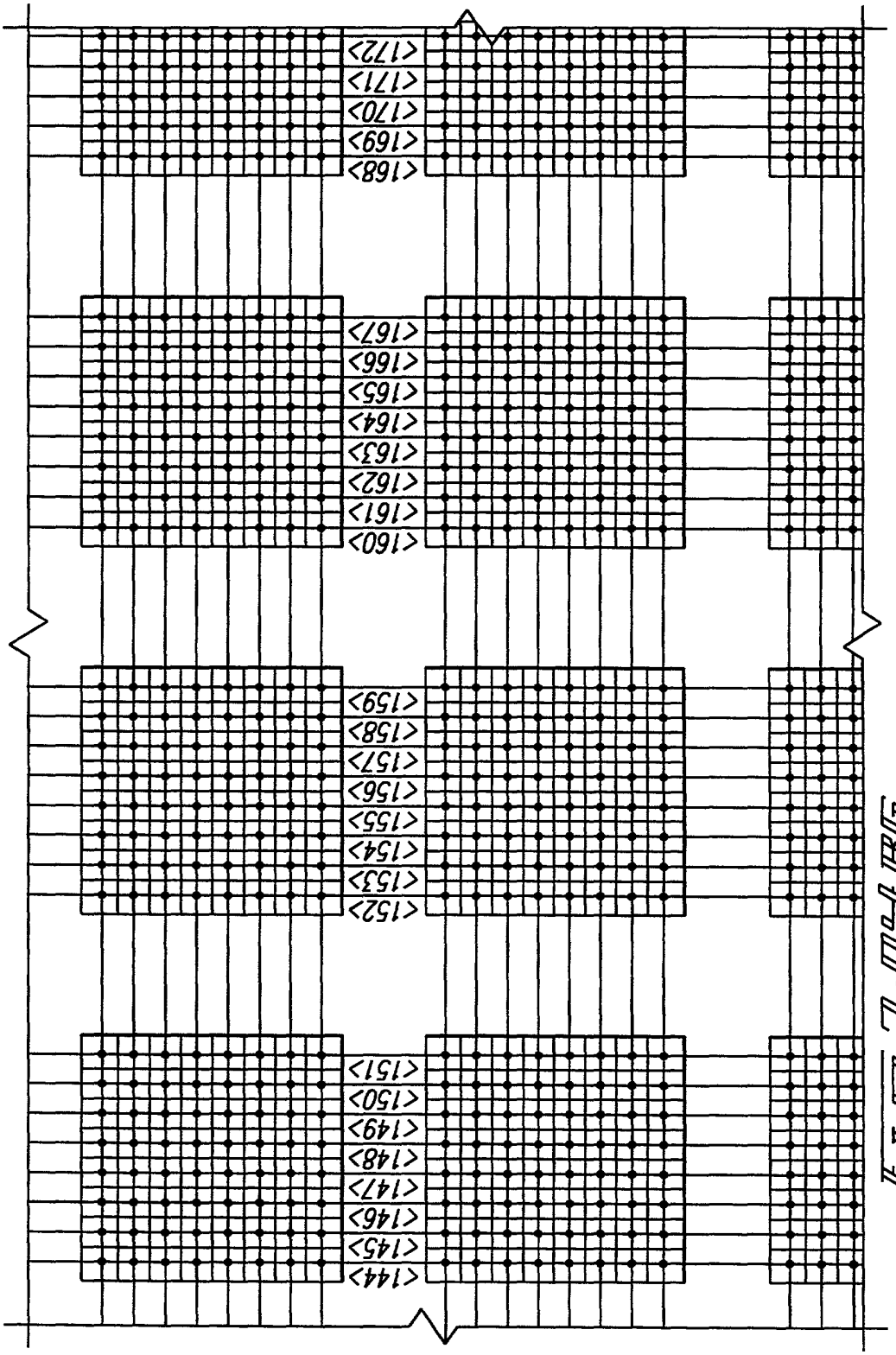
US005956265A



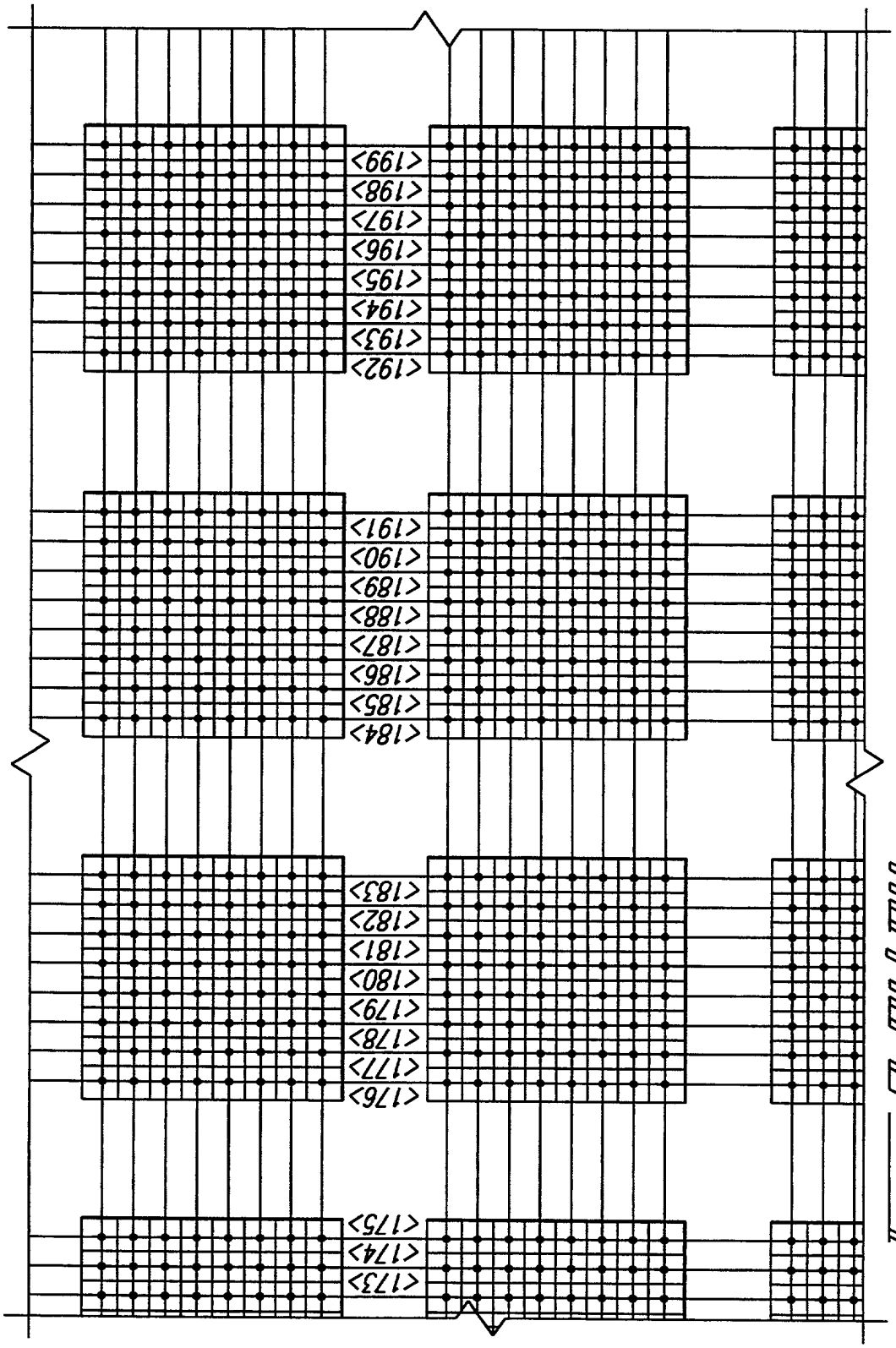
Patent Application Publication Dec. 29, 2005 Sheet 6 of 95 US 2005/0285195 A1


romwdec I32393
BLOCK15
romwdec I29502
BLOCK14
romwdec I28325
WL7
WL6
WL5
WL4
WL3
WL2
WL1
WL0
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<124>
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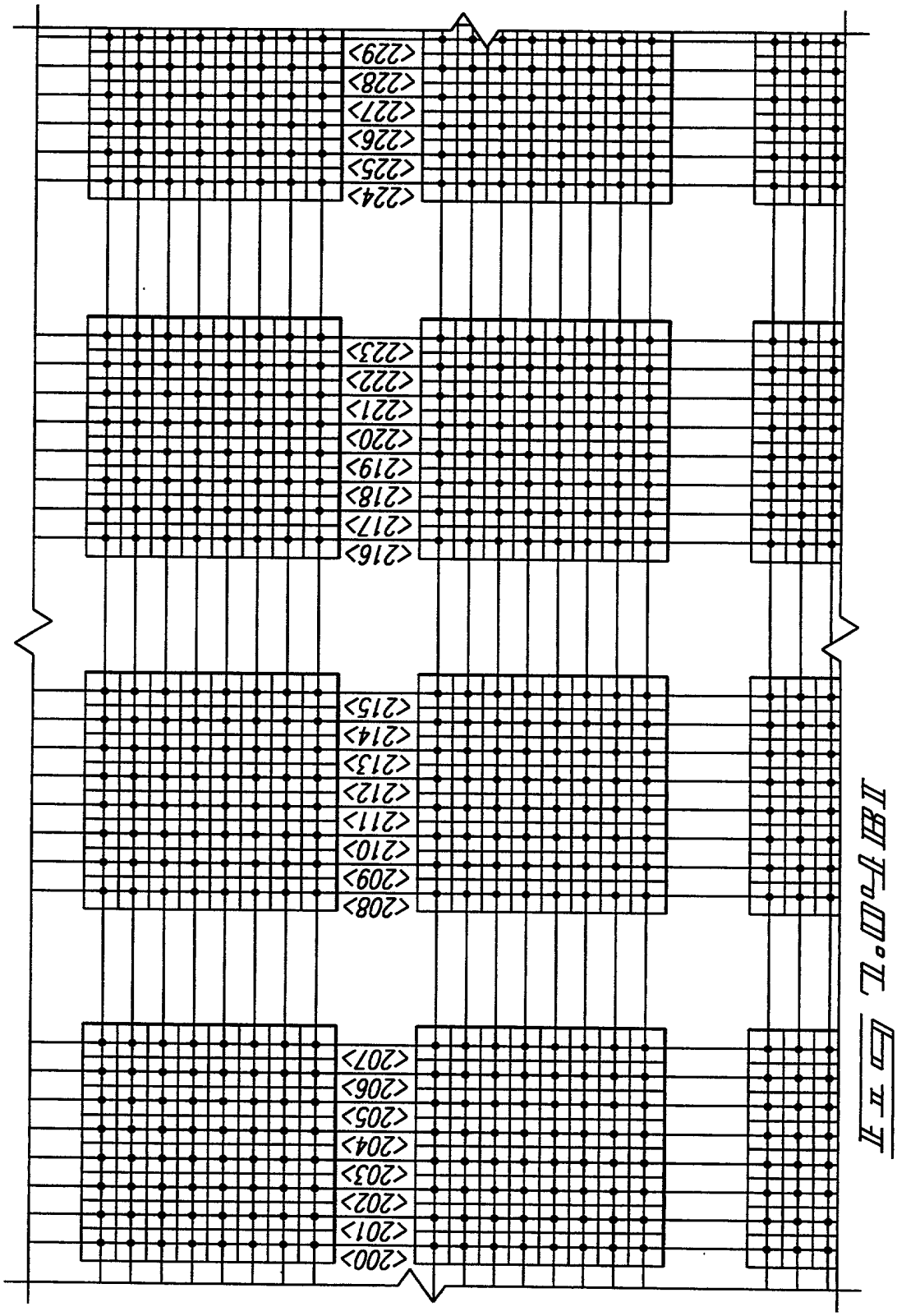
Фиг 4Ф00 "L"



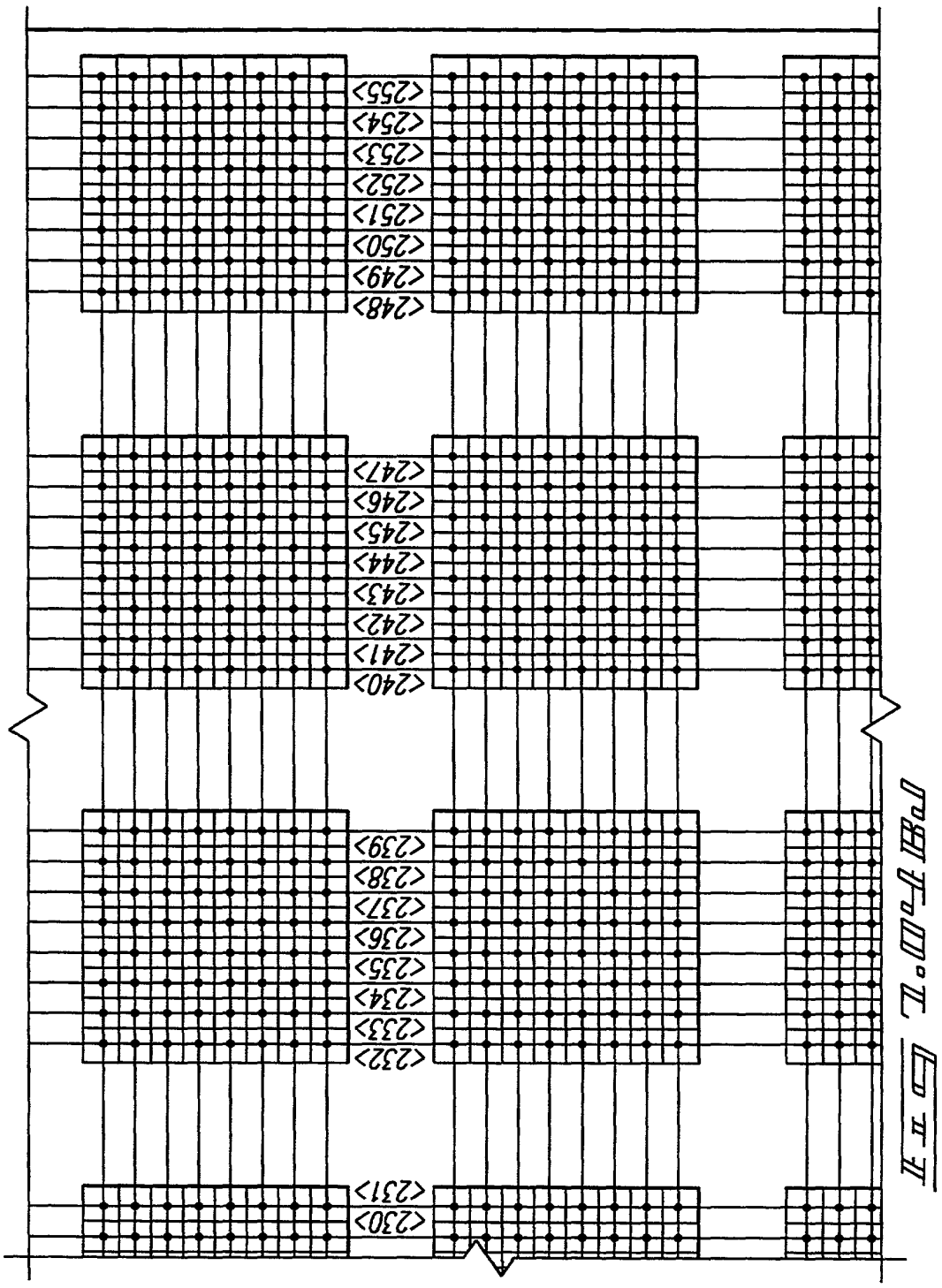
5674553-65445



SAMSUNG EXHIBIT 1004

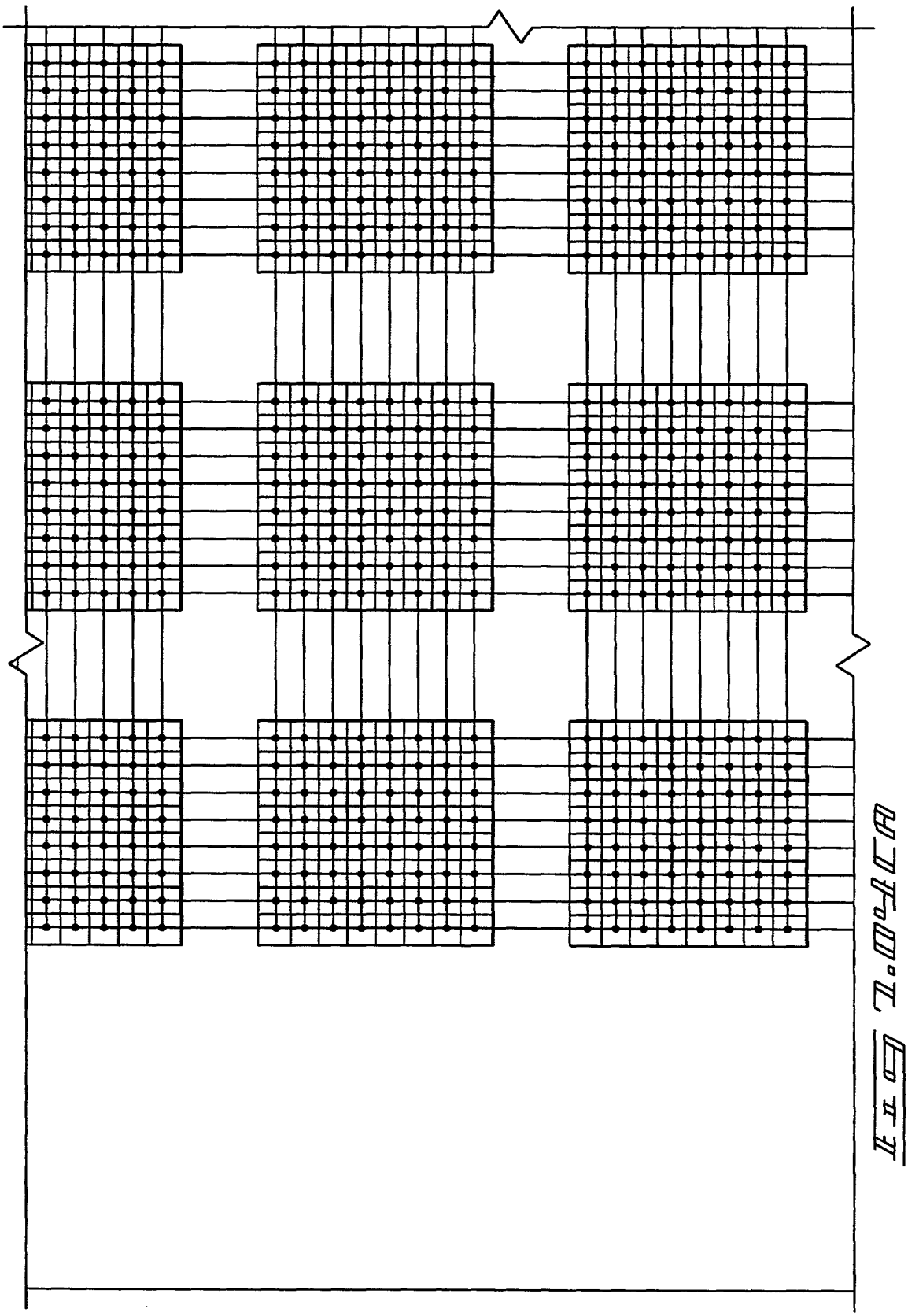


EP 1 994 529 B1



Electronic Acknowledgement Receipt - 95722965

318/3273



0.0°, 0.0°, 0.0°

0.0°, 0.0°, 0.0°

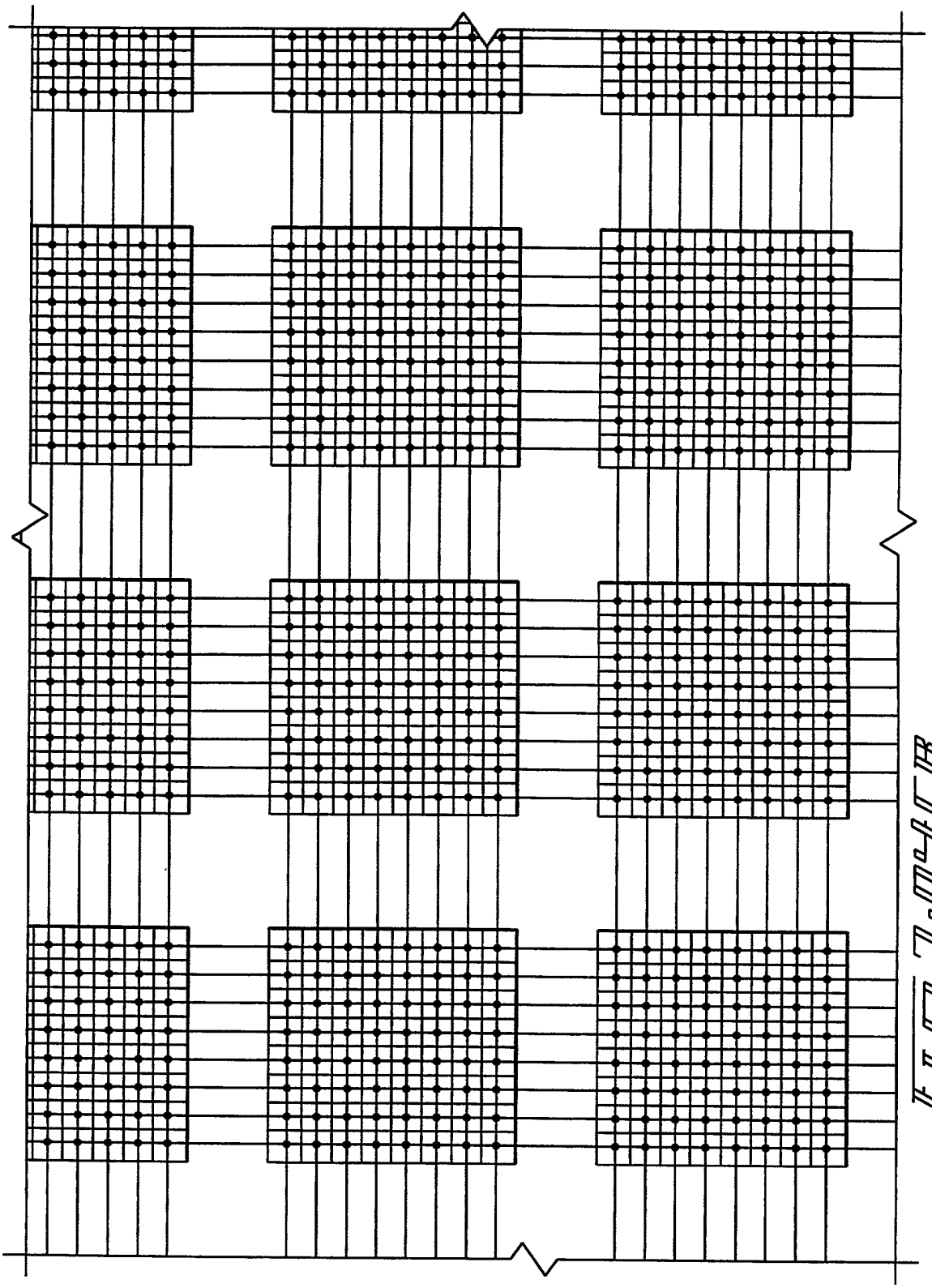


Fig 1.0478

Patentscope.wipo.int 15/04/2019

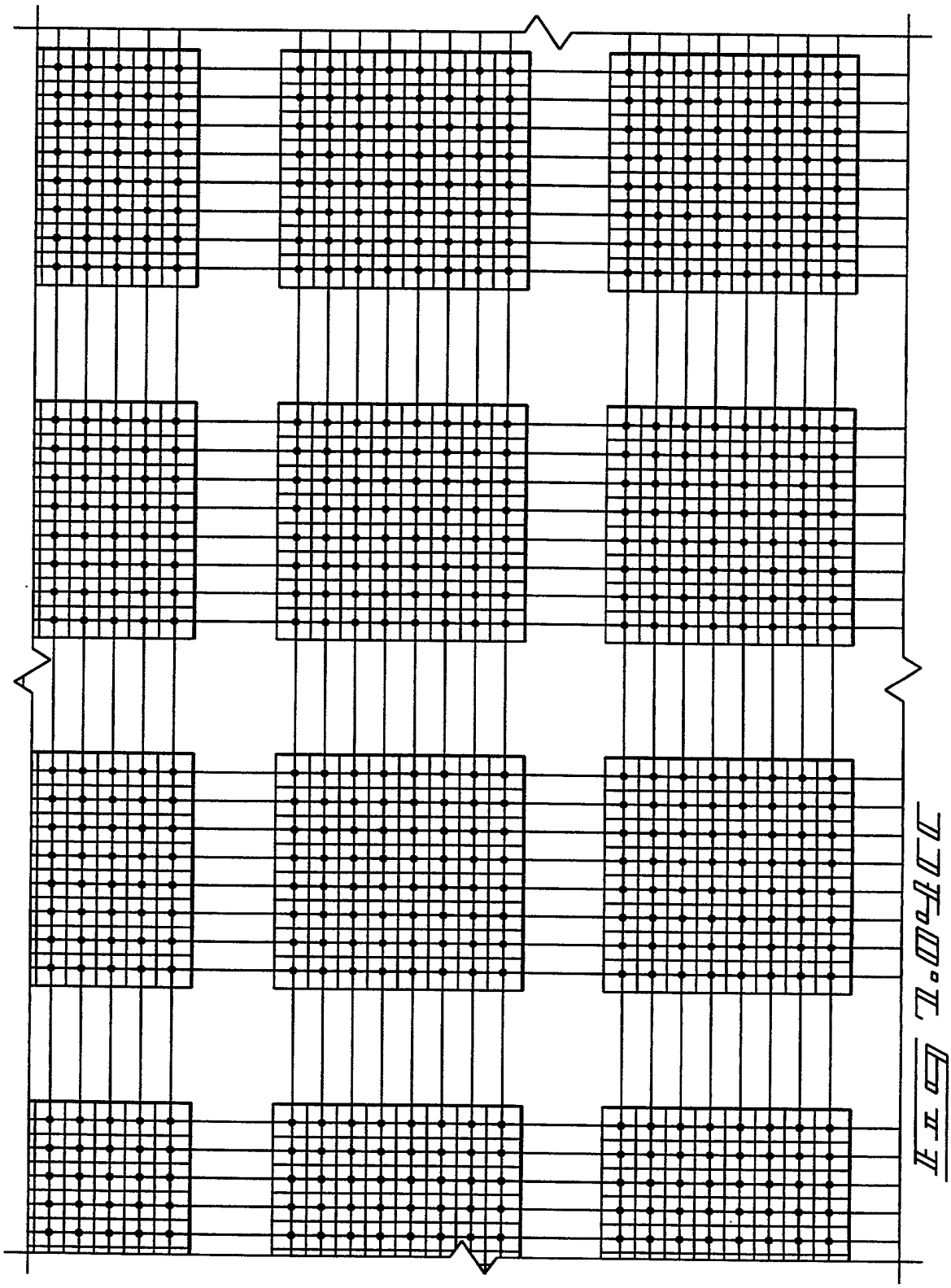


FIG. 4

Petitioner - Ex. 1004, p. 0320

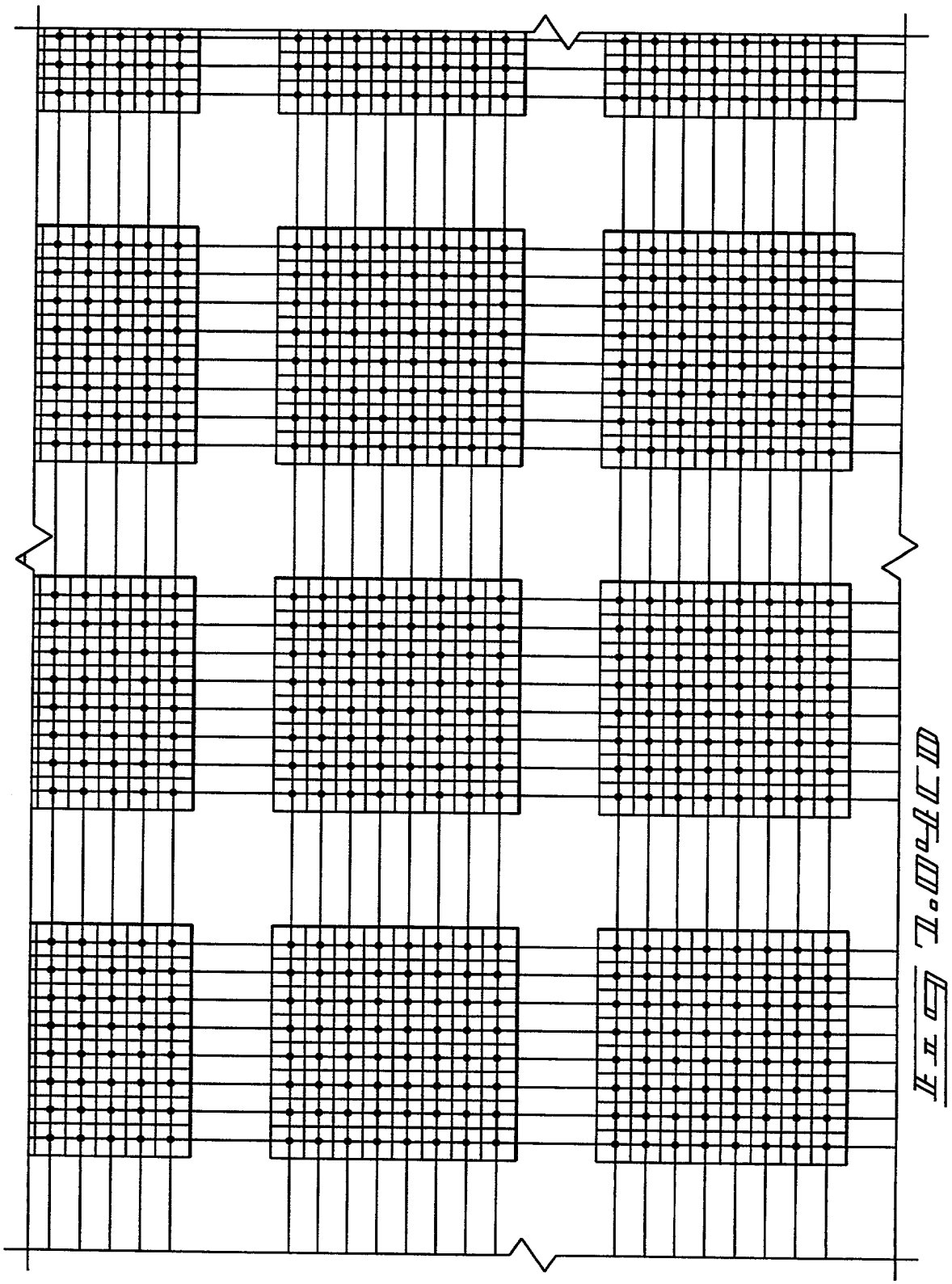


FIG. 10A

0662205 - 06/10/99

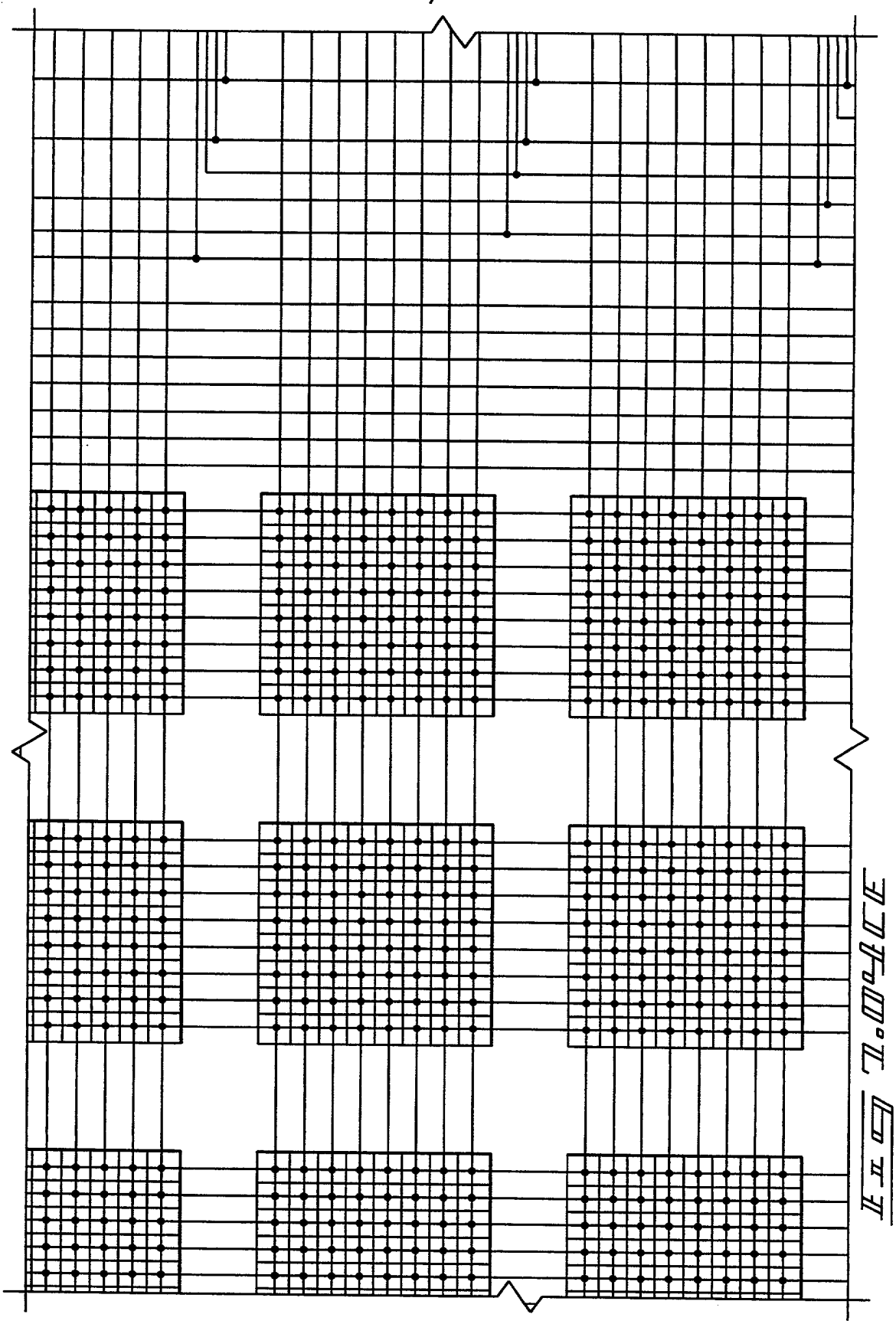


Image Sensor Corporation

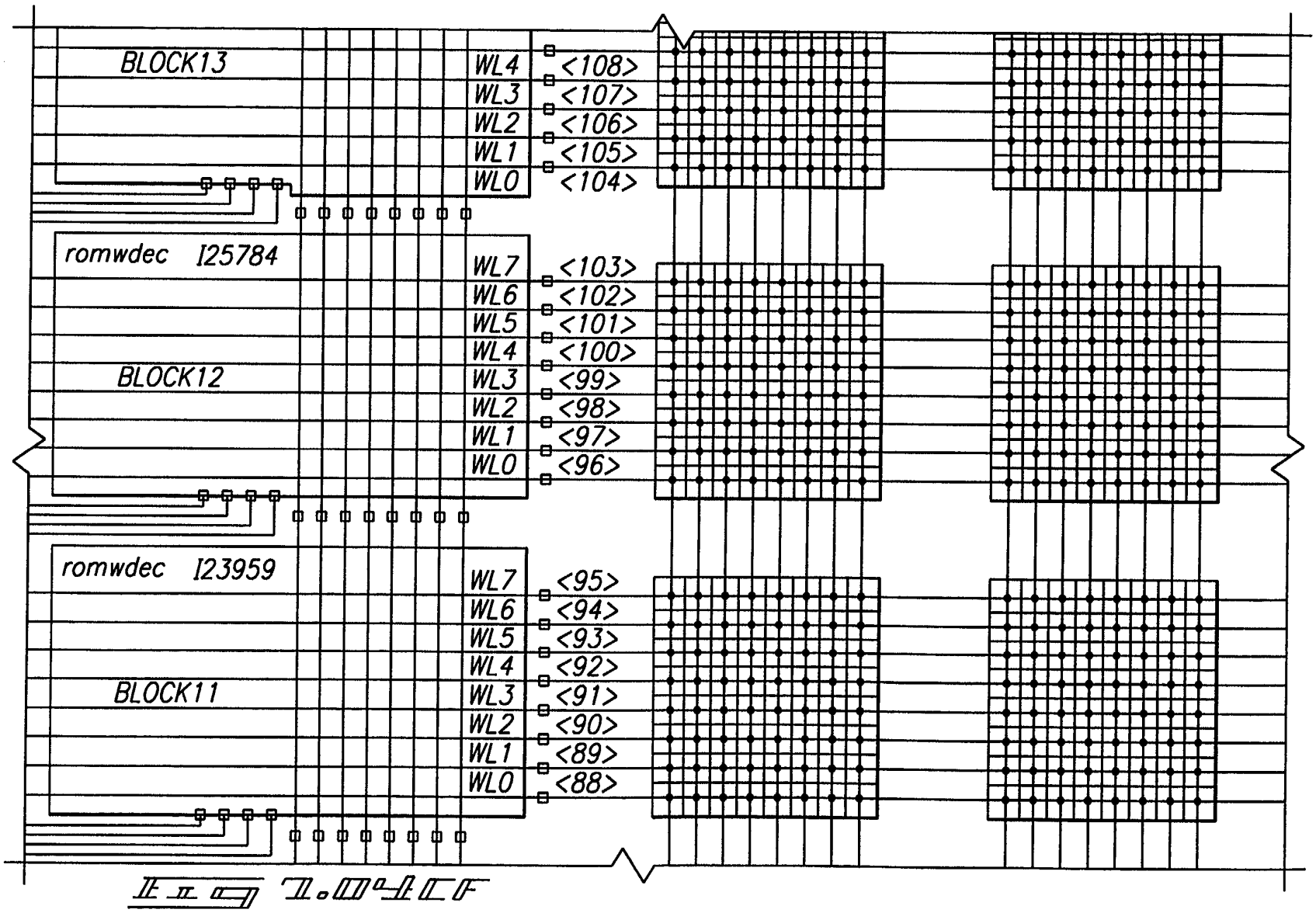
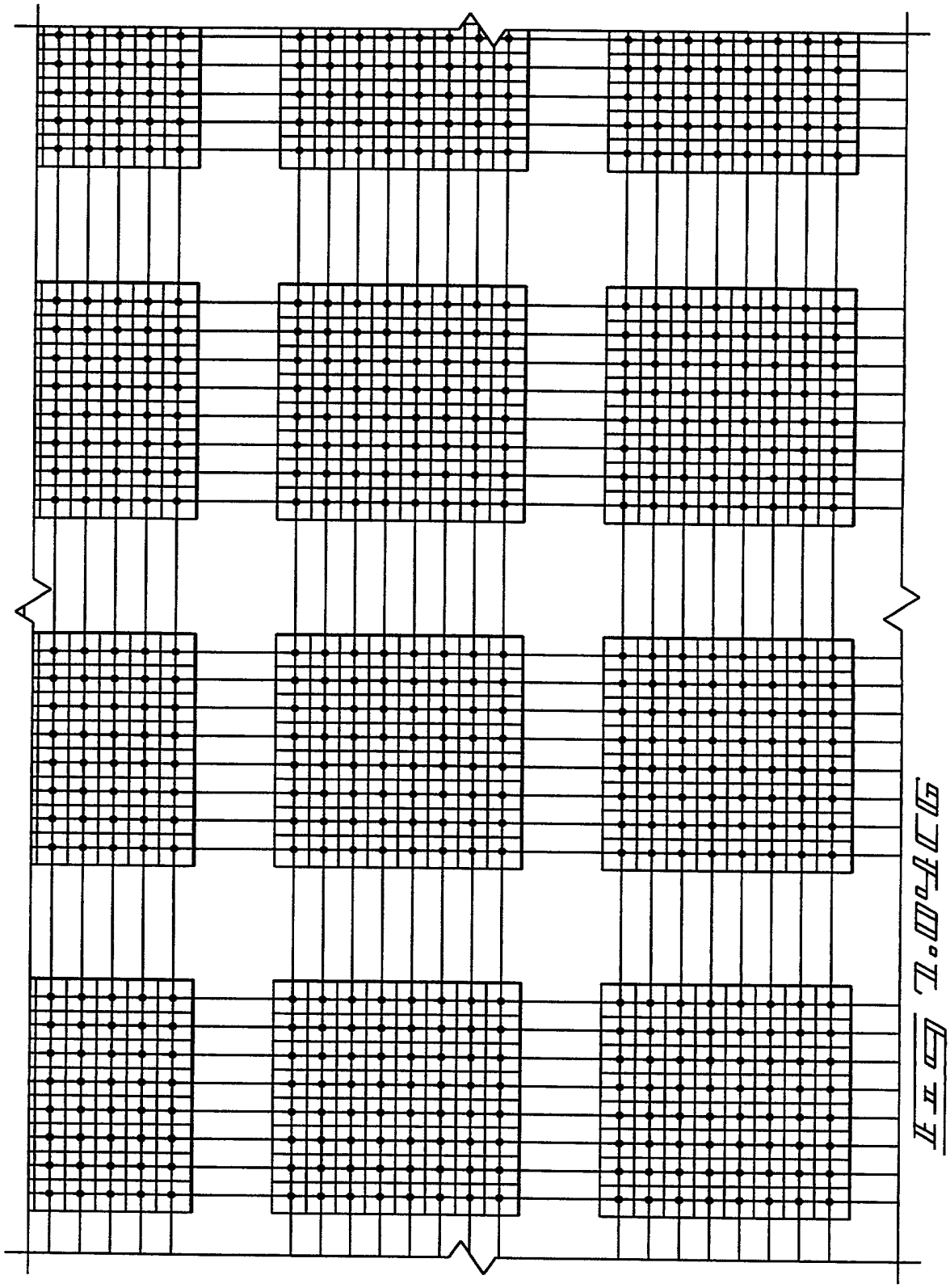
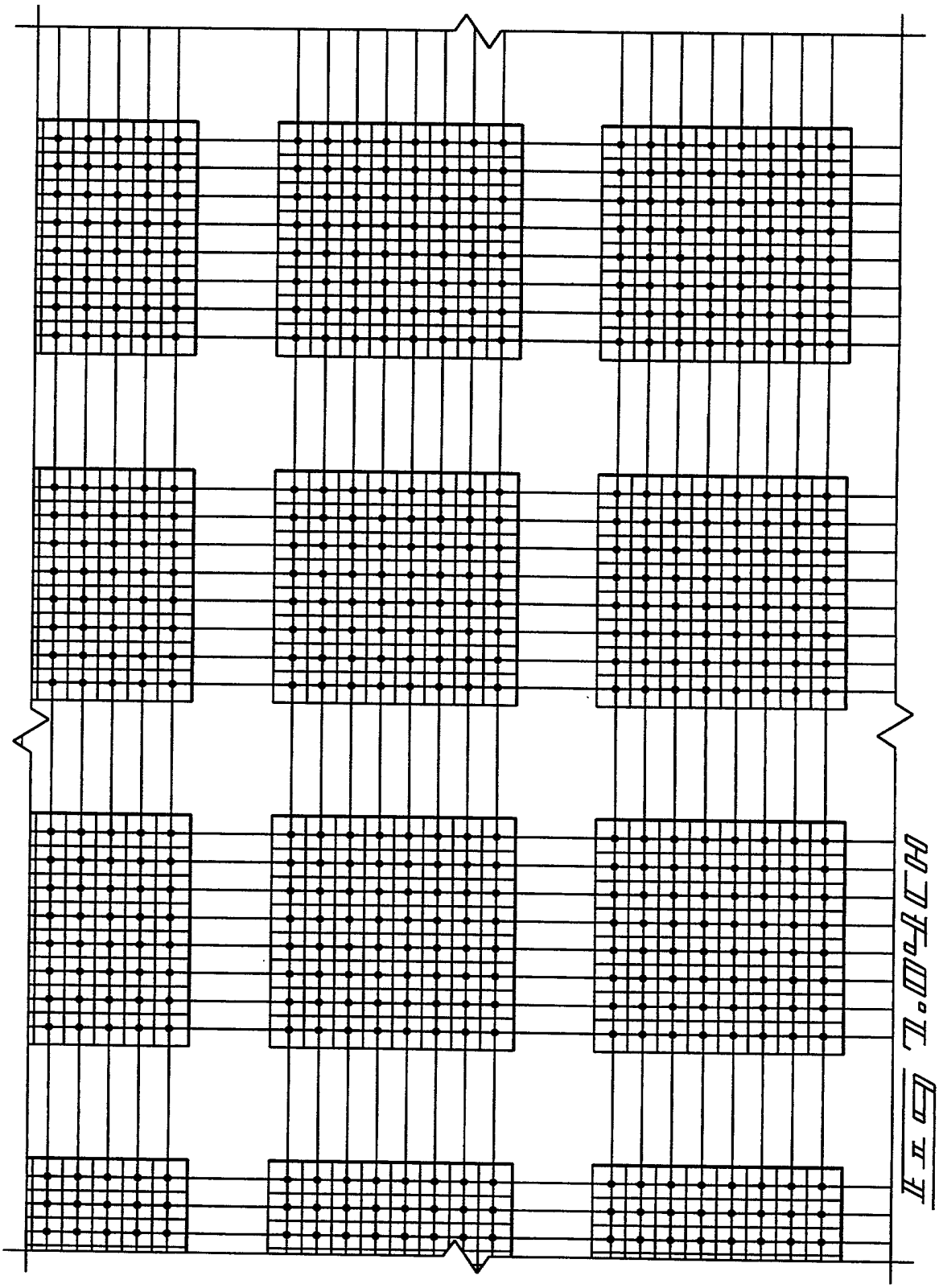

BLOCK13
WL4 <108>
WL3 <107>
WL2 <106>
WL1 <105>
WL0 <104>
romwdec I25784
WL7 <103>
WL6 <102>
WL5 <101>
WL4 <100>
BLOCK12
WL3 <99>
WL2 <98>
WL1 <97>
WL0 <96>
romwdec I23959
WL7 <95>
WL6 <94>
WL5 <93>
WL4 <92>
BLOCK11
WL3 <91>
WL2 <90>
WL1 <89>
WL0 <88>

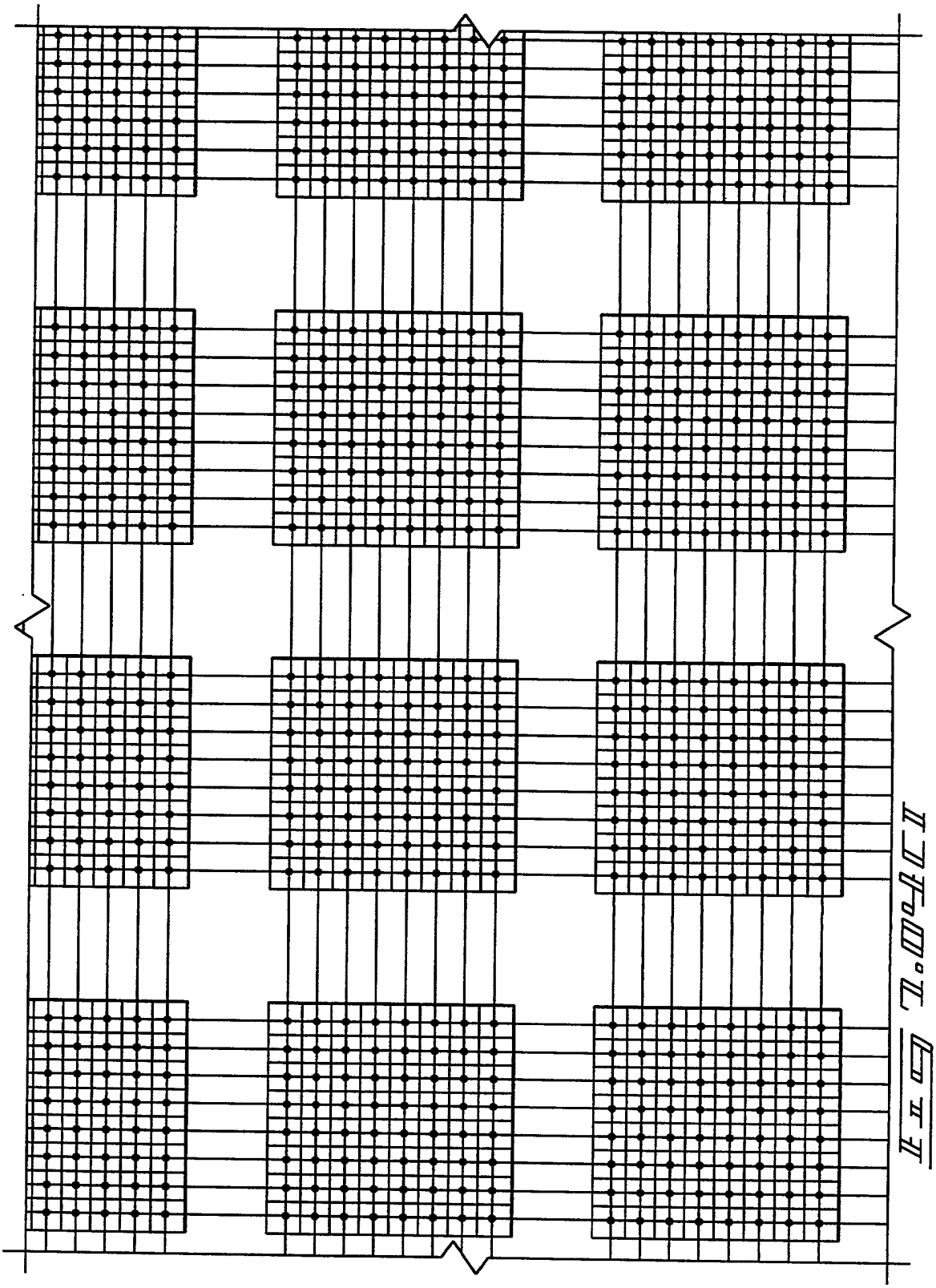
Fig 3.0ALF



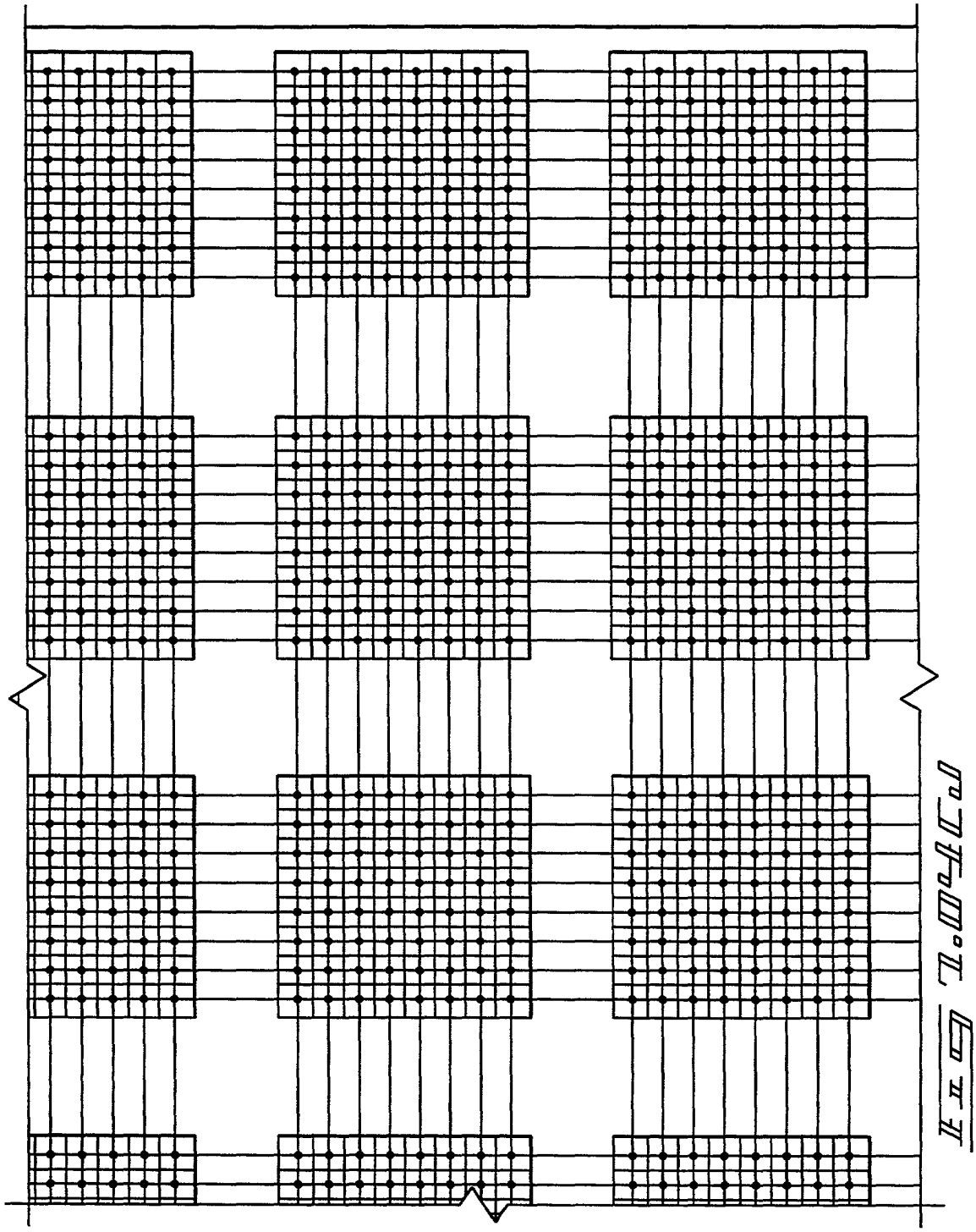
Document - 09/22/2005



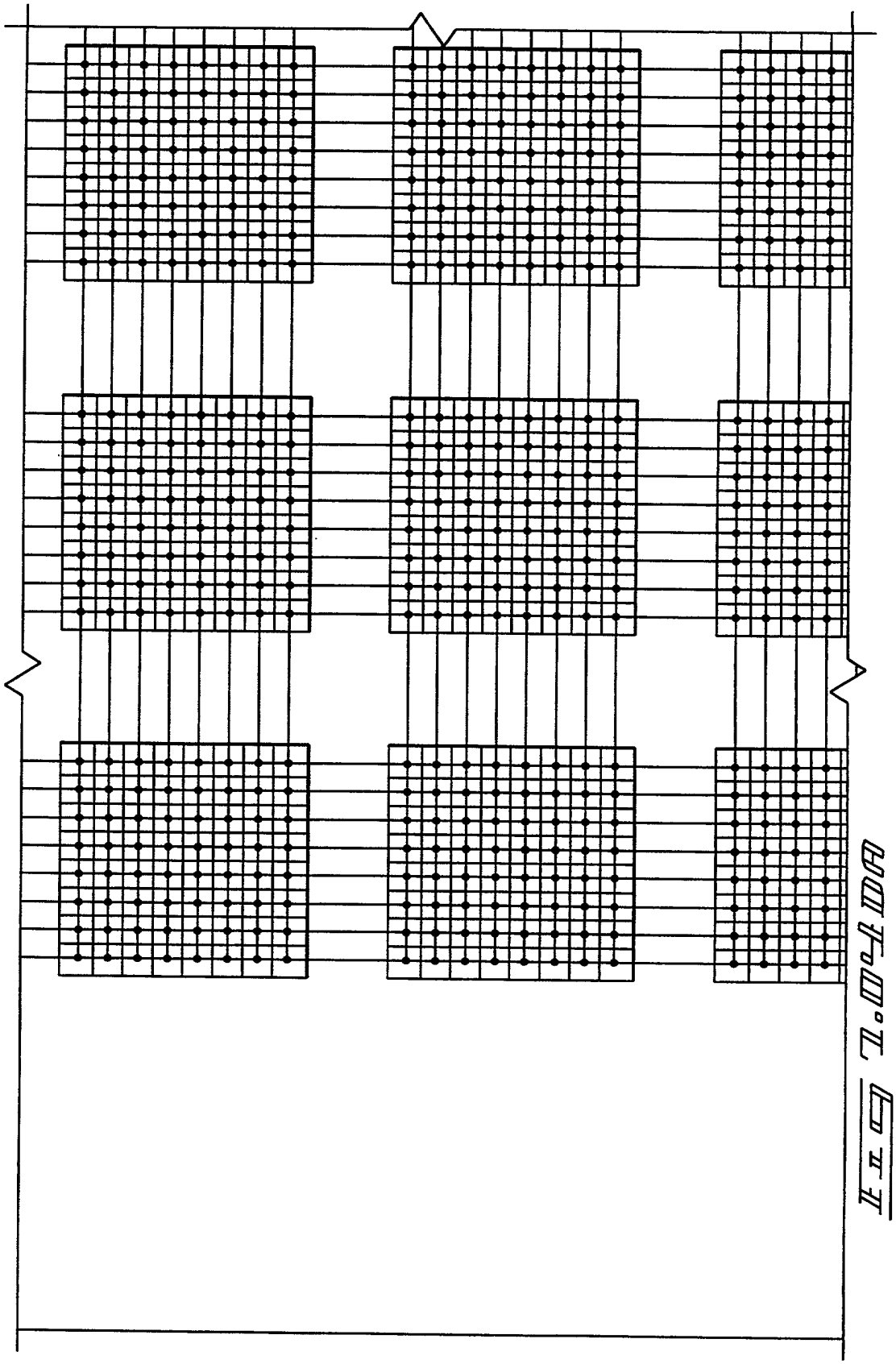
Document - 0094225



0956205.2 05.11.04



EP 1 494 595 B1



Patent-2015-05-14

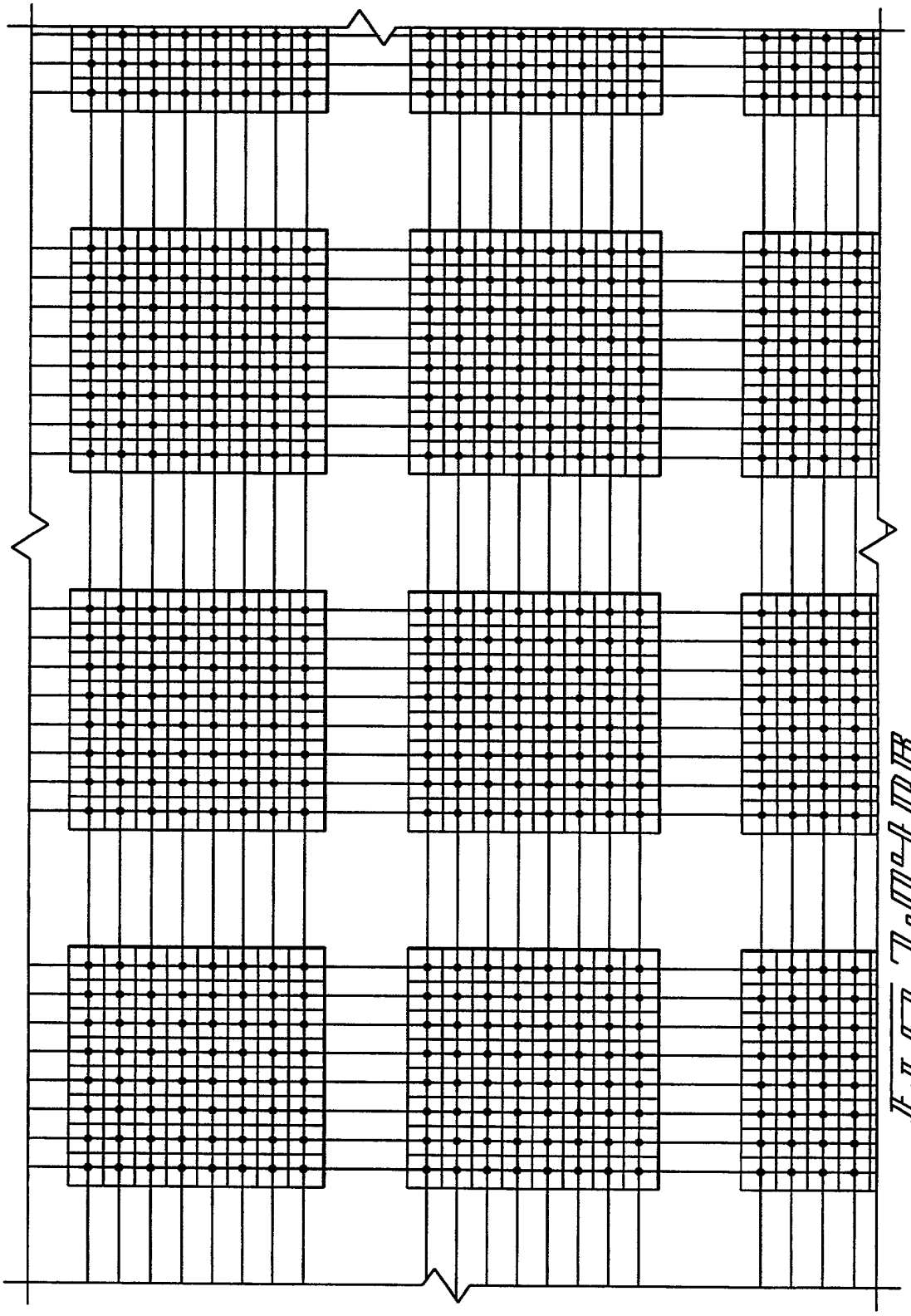
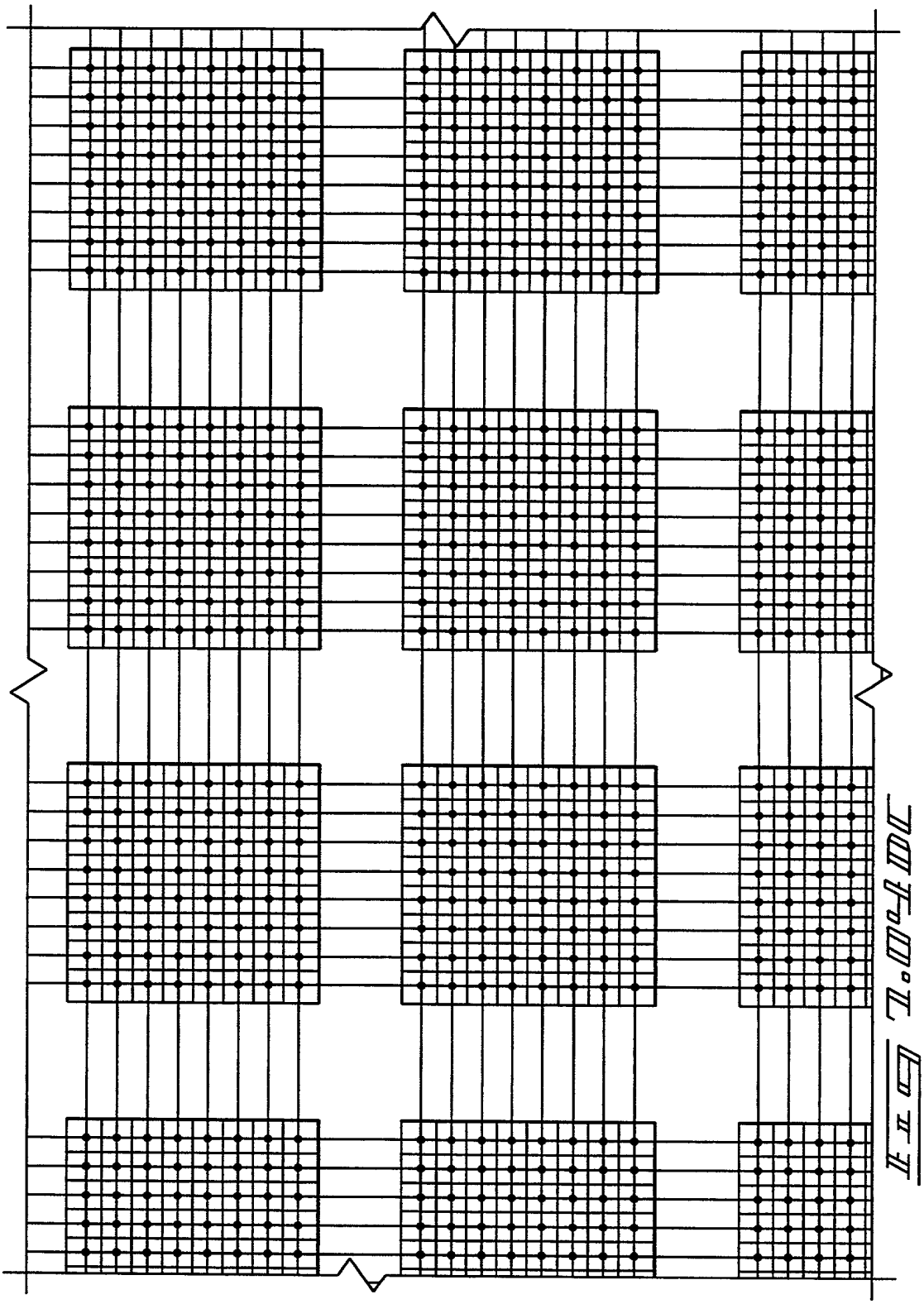
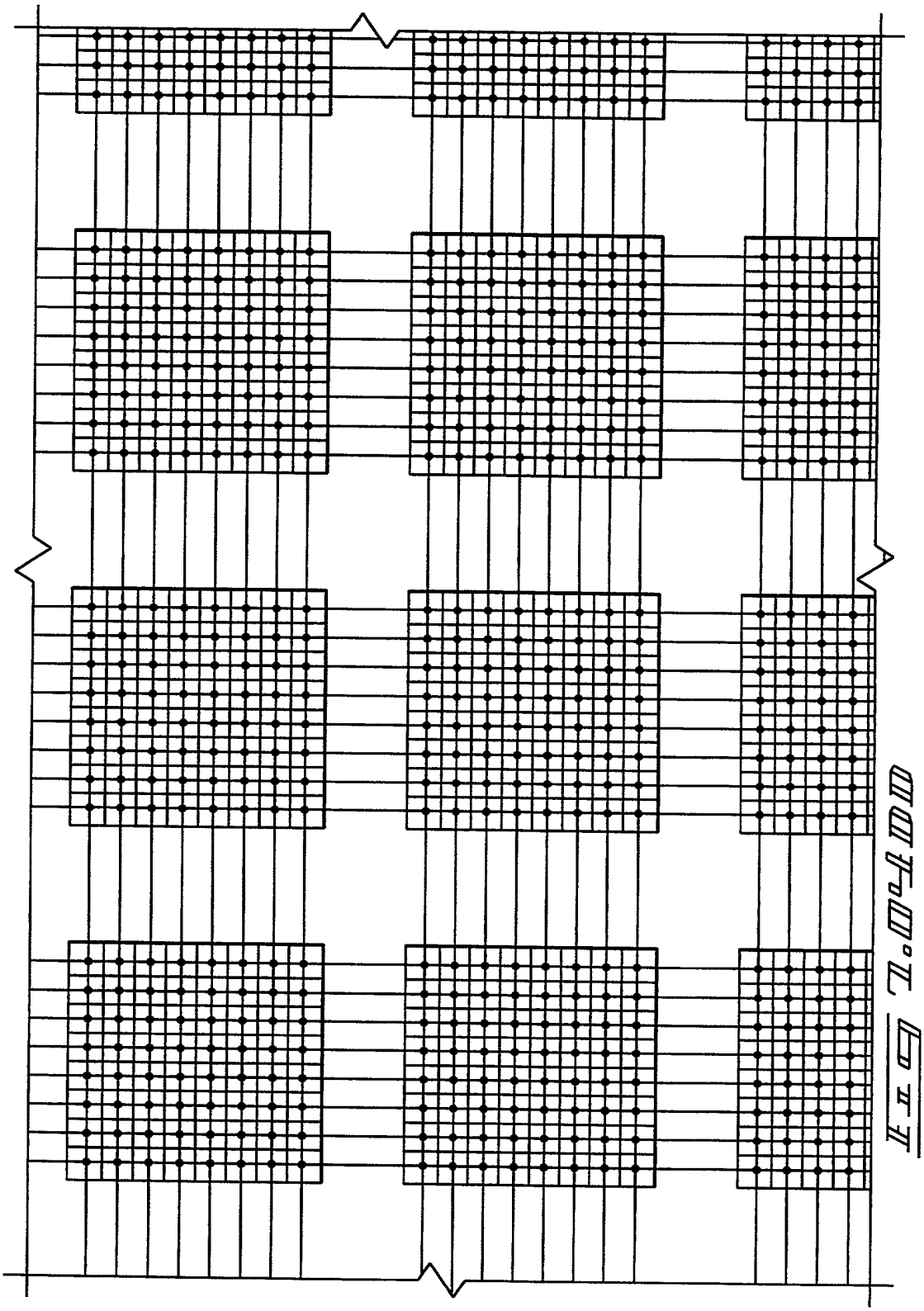


FIG 1.004B

Protected - 05/22/2009



Patentscope.wipo.int 02/12/2009



GB 2394.6 - 95 4.5.4

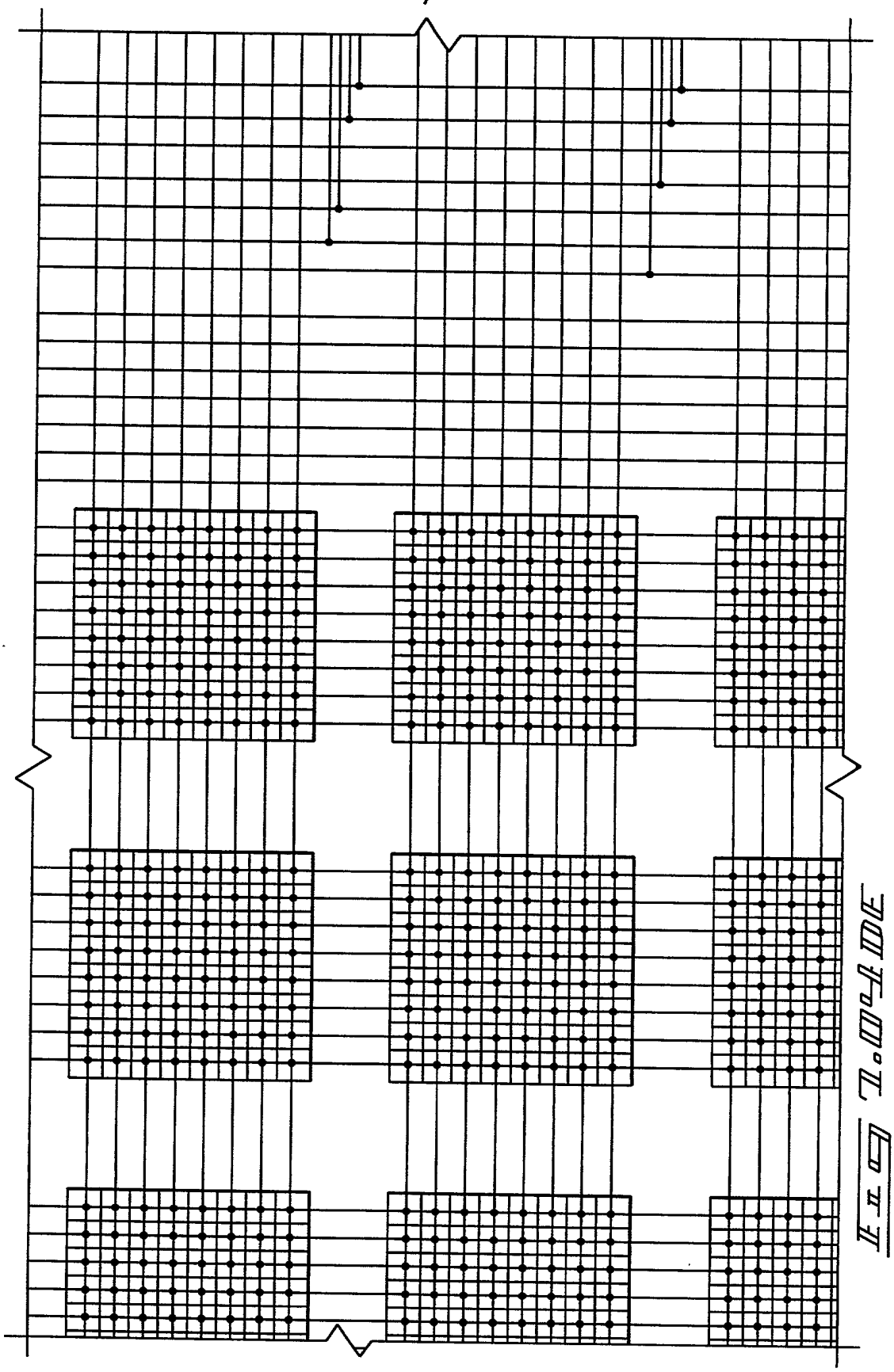


FIG 6A

0562205.0564504

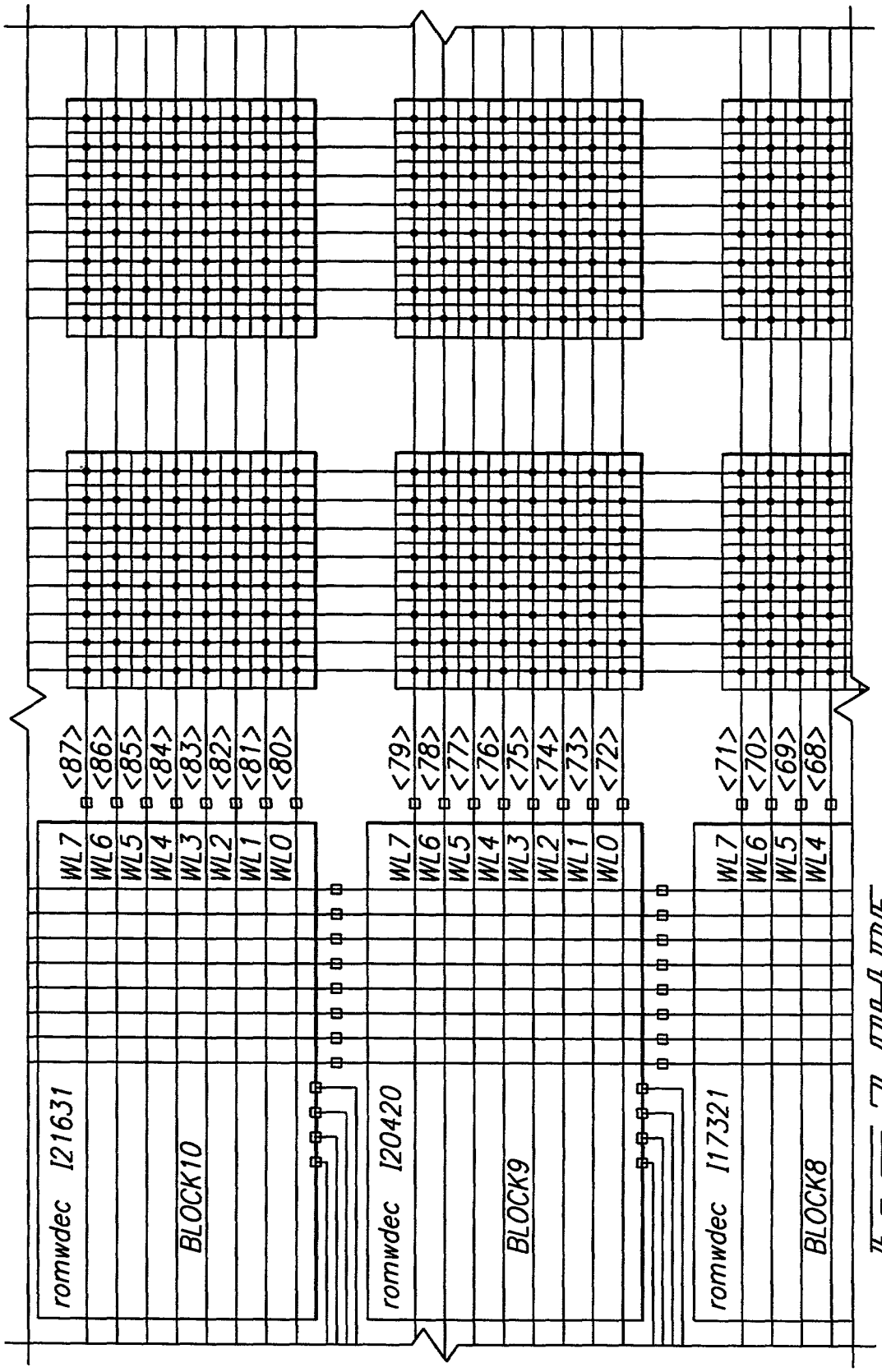
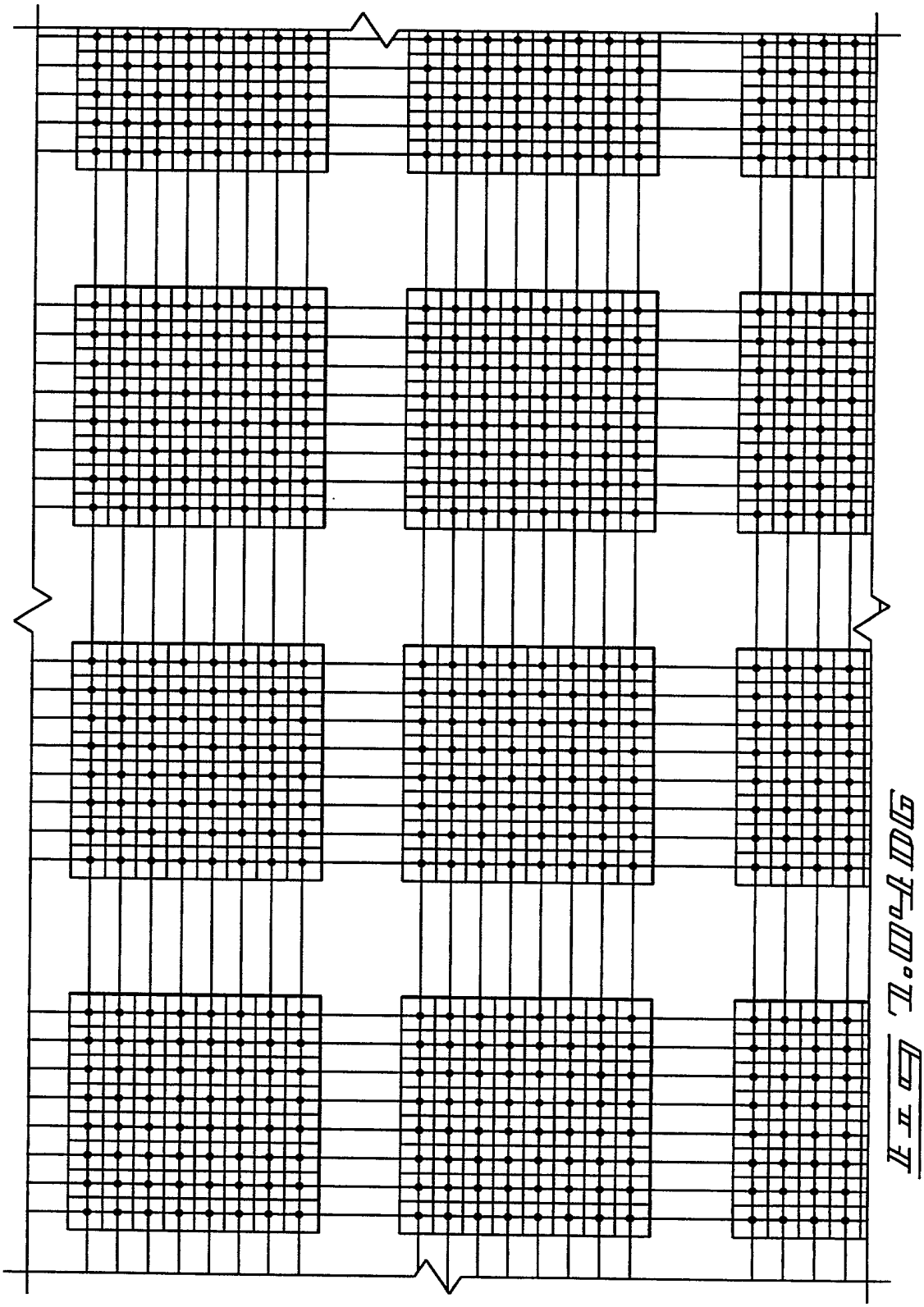
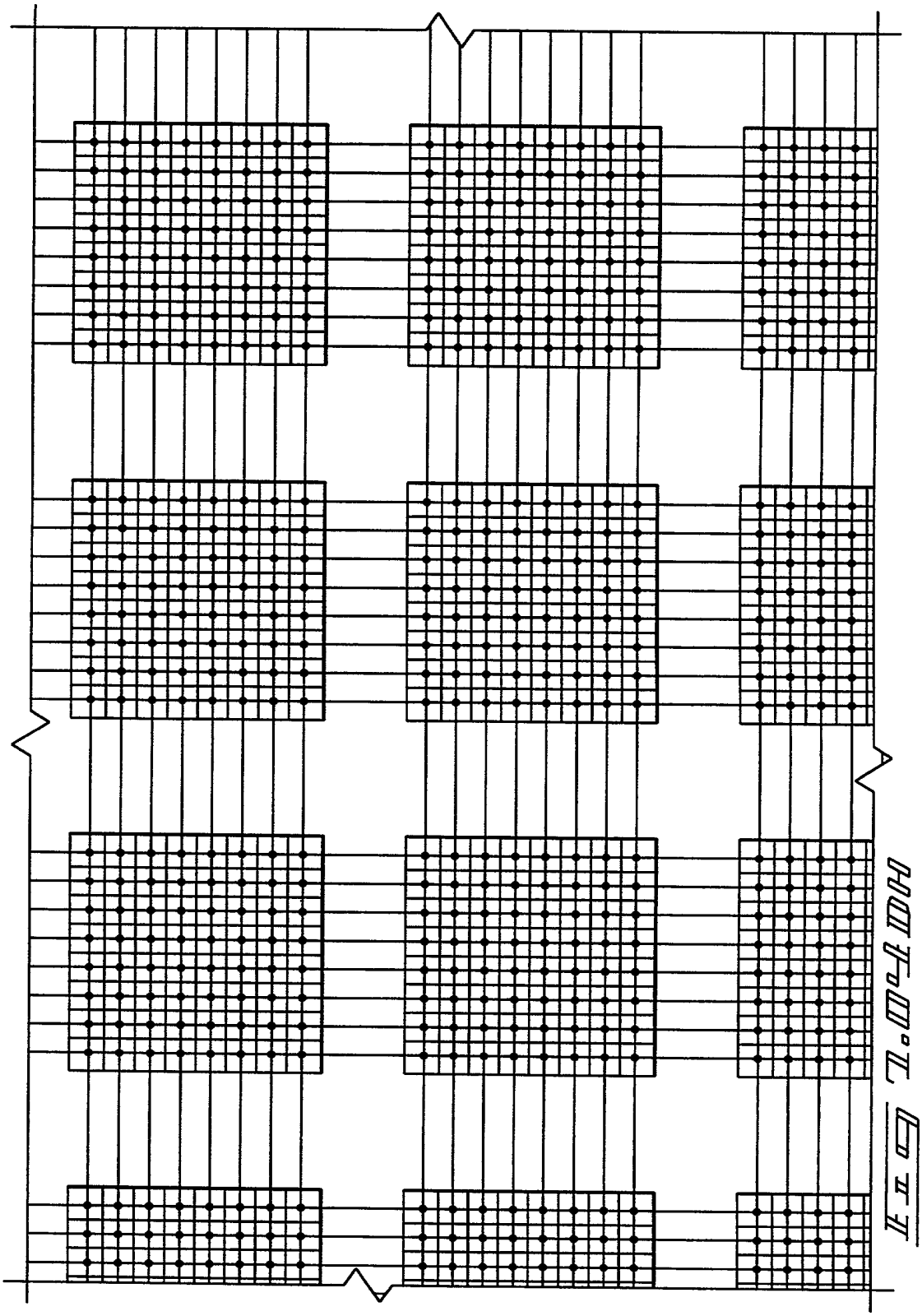


FIG. 10F

US 6,567,307 B1



Patent Application Publication



US 6,962,265 B2

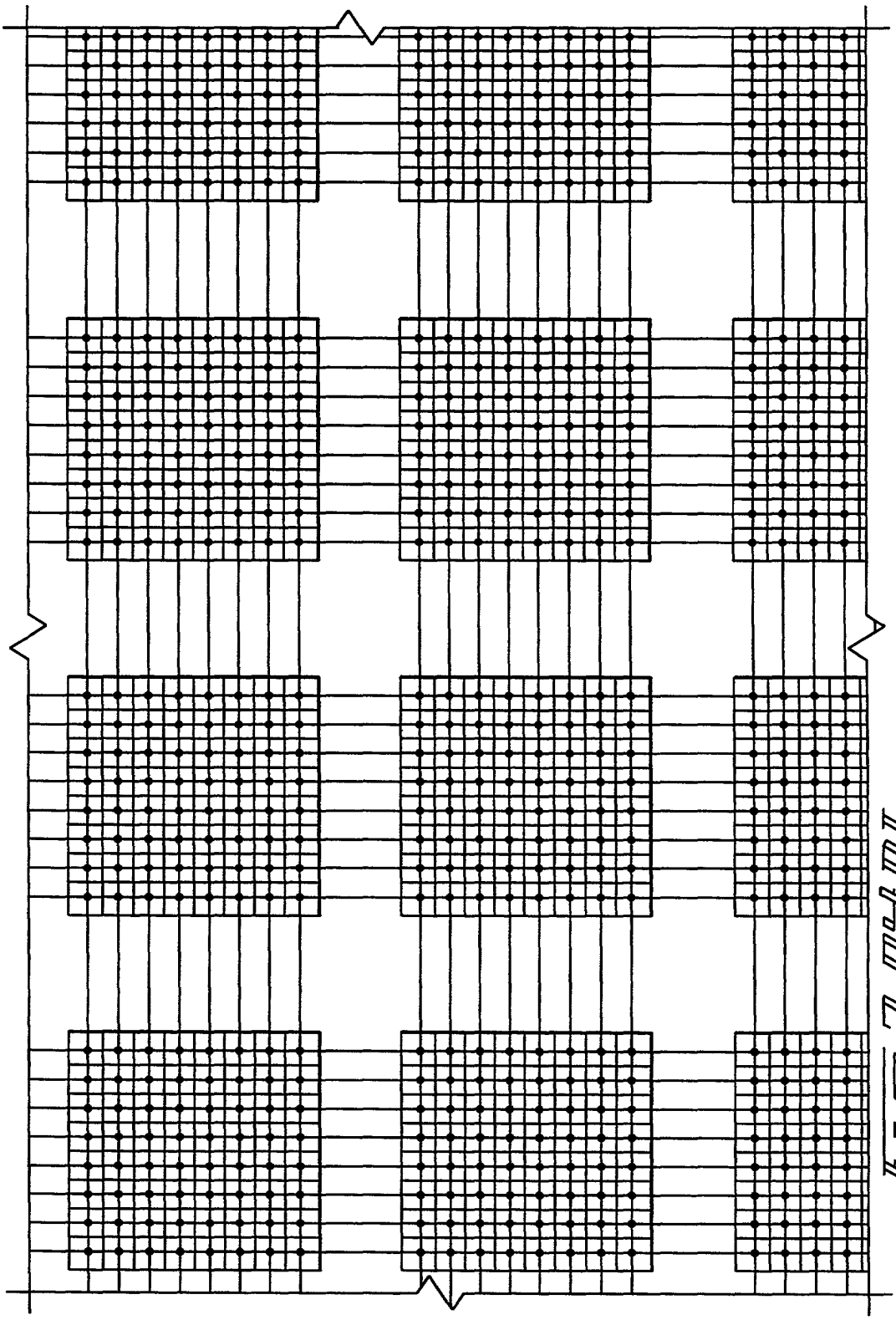


FIG. 40.1

US 9,526,468 B2

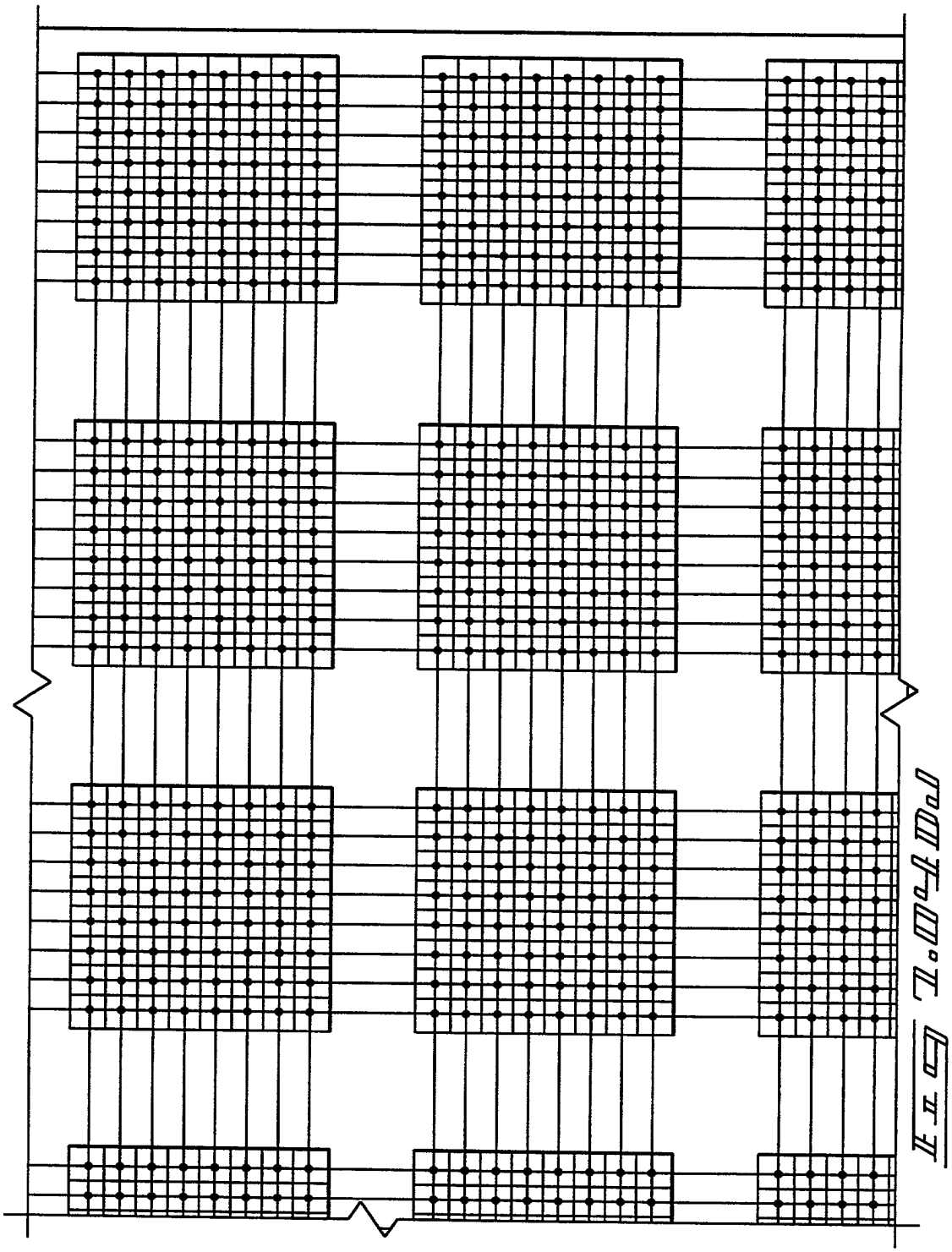


FIG 5

0962205 - 05-14-01

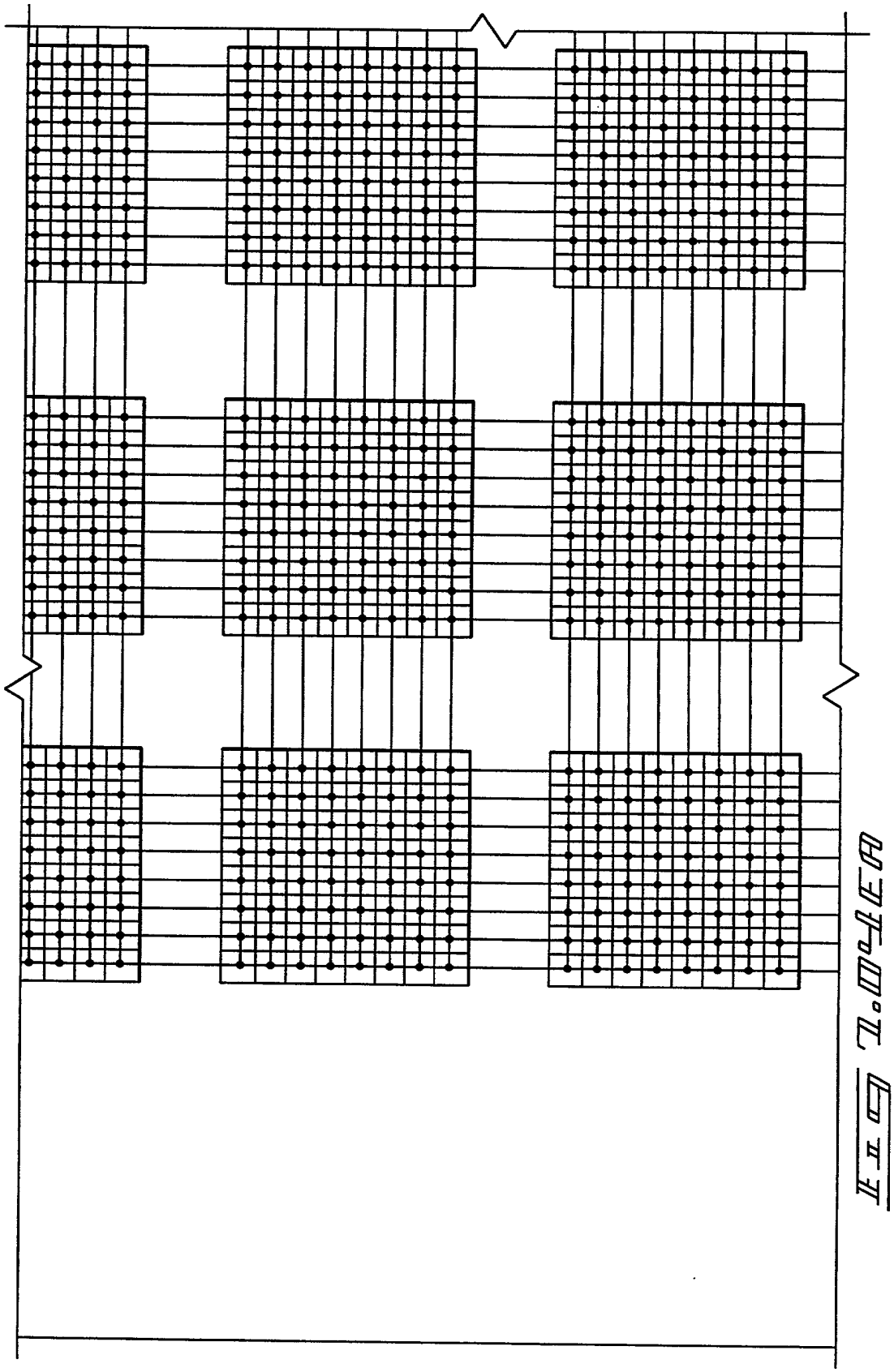
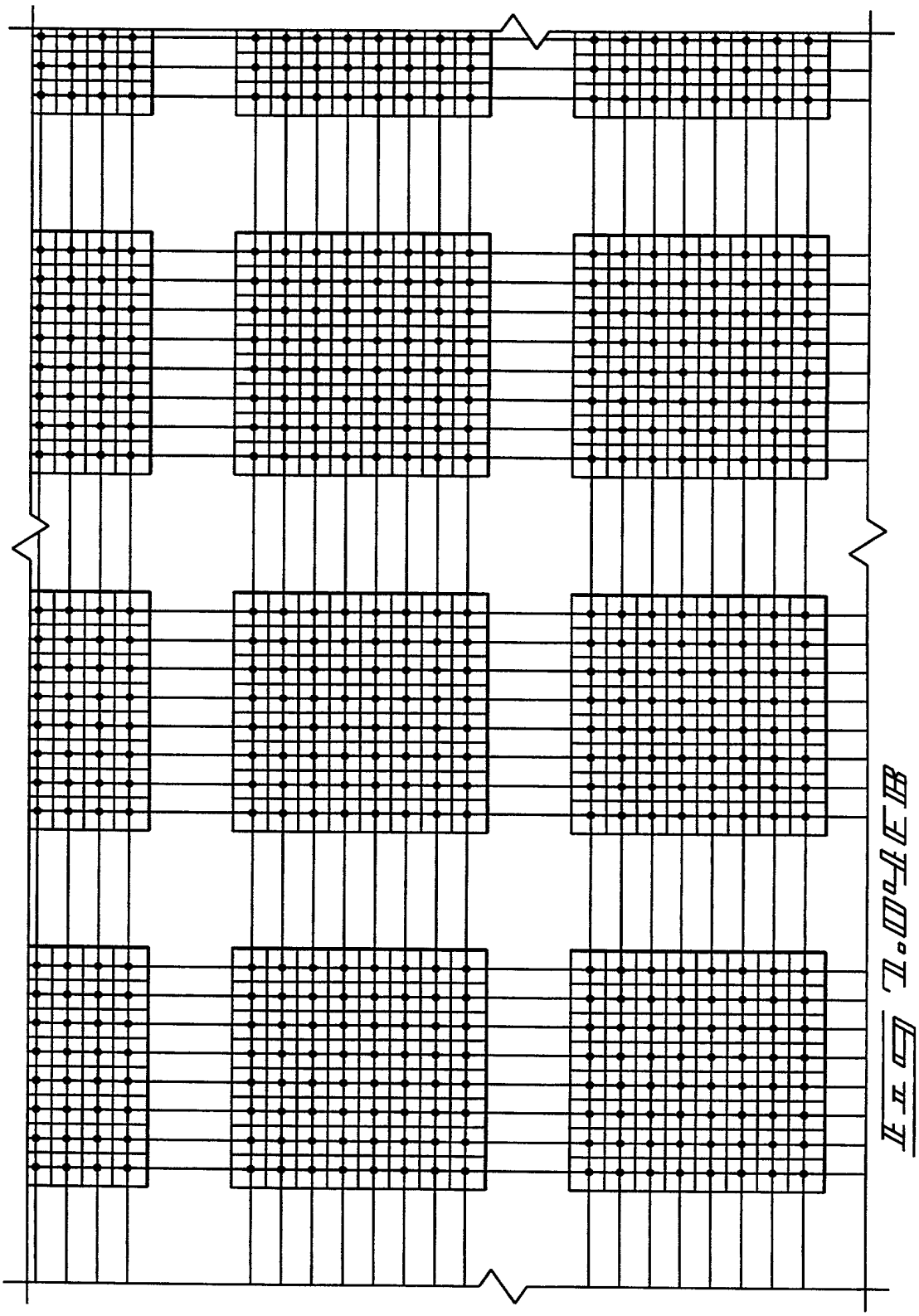
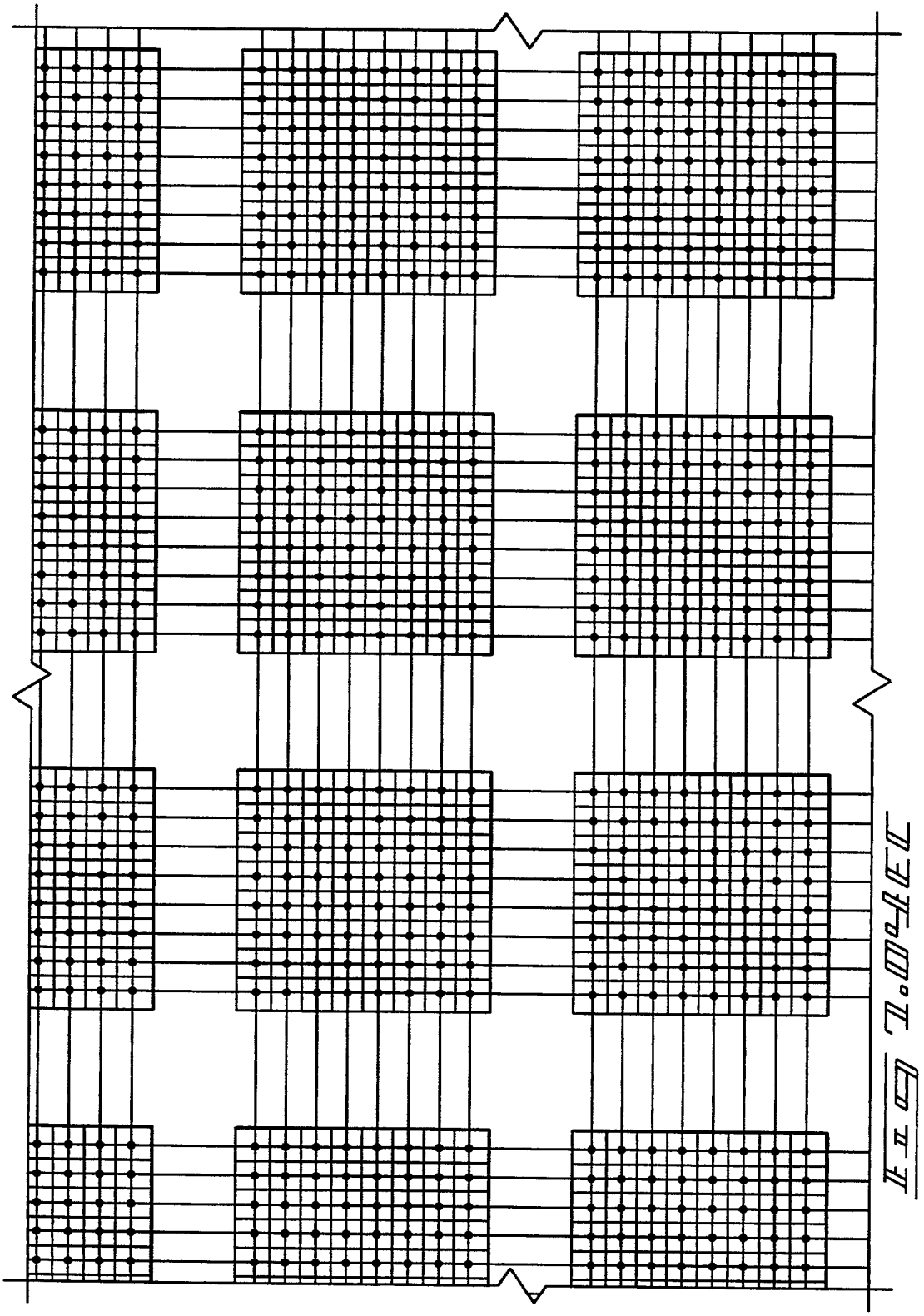


FIG. 338A



CN 114502805 A 2022.05.13



US 6,952,955 B2

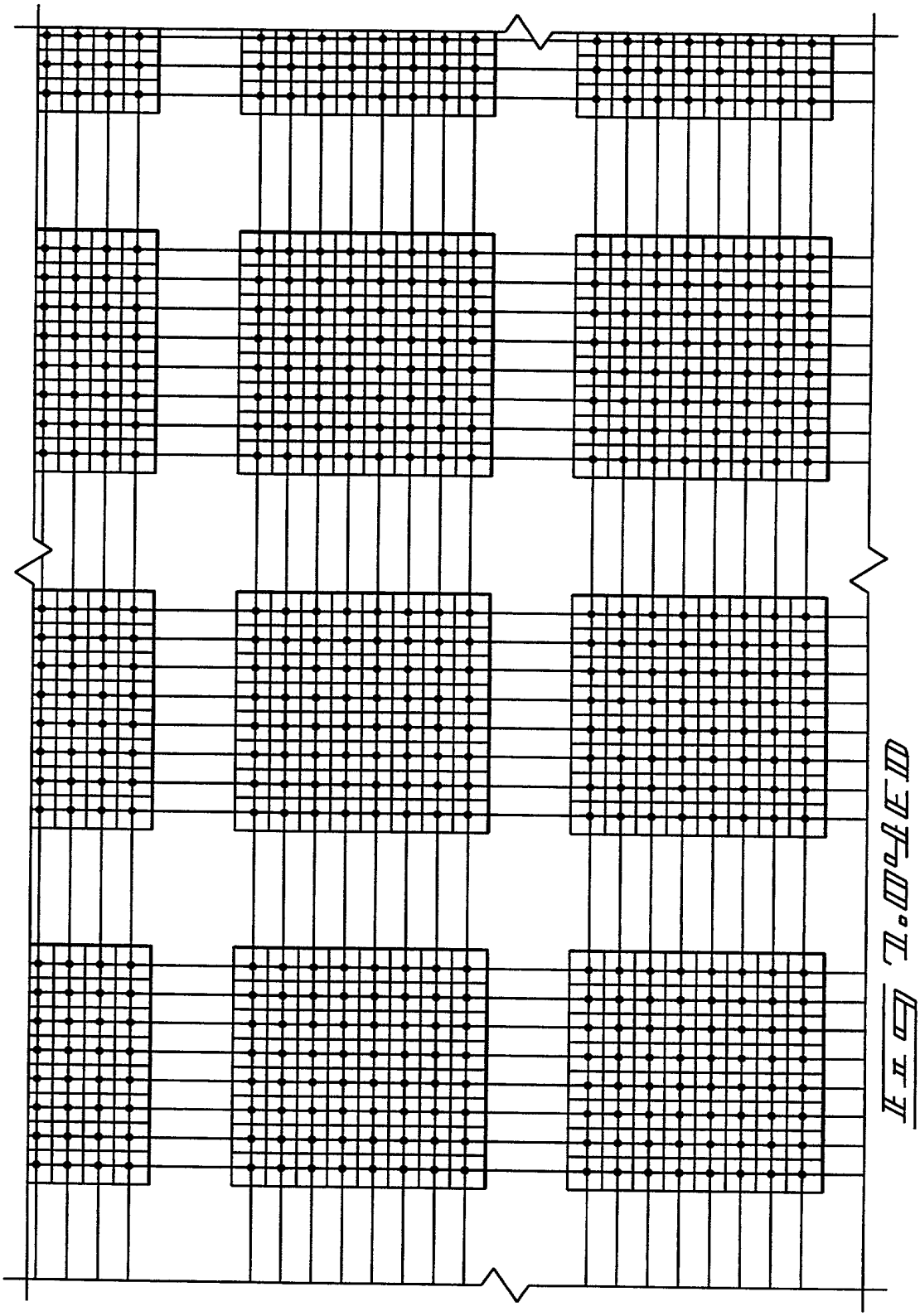


FIG 3A

PATENT - 05/22/2003 15:47:04

342/3273

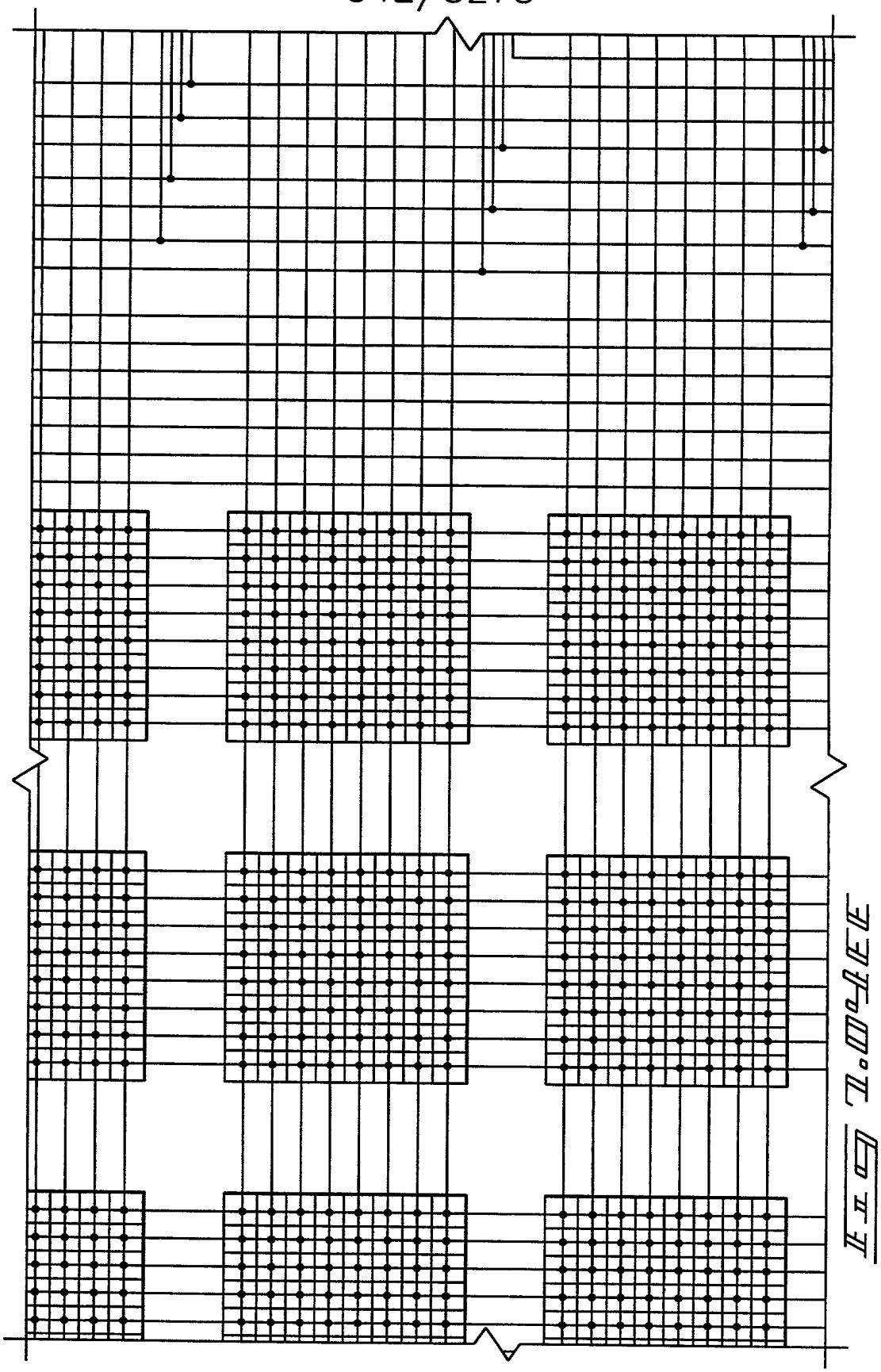
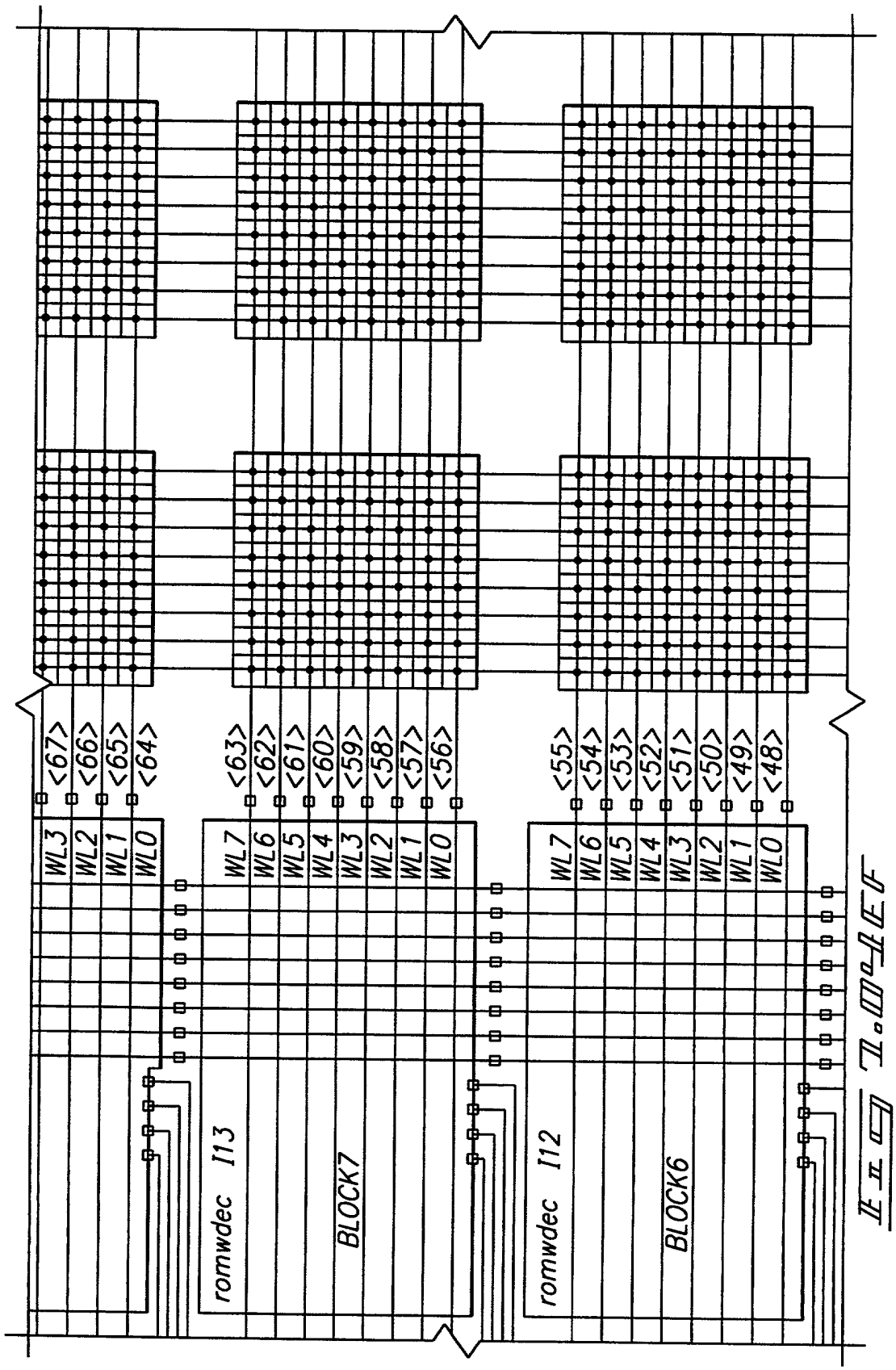
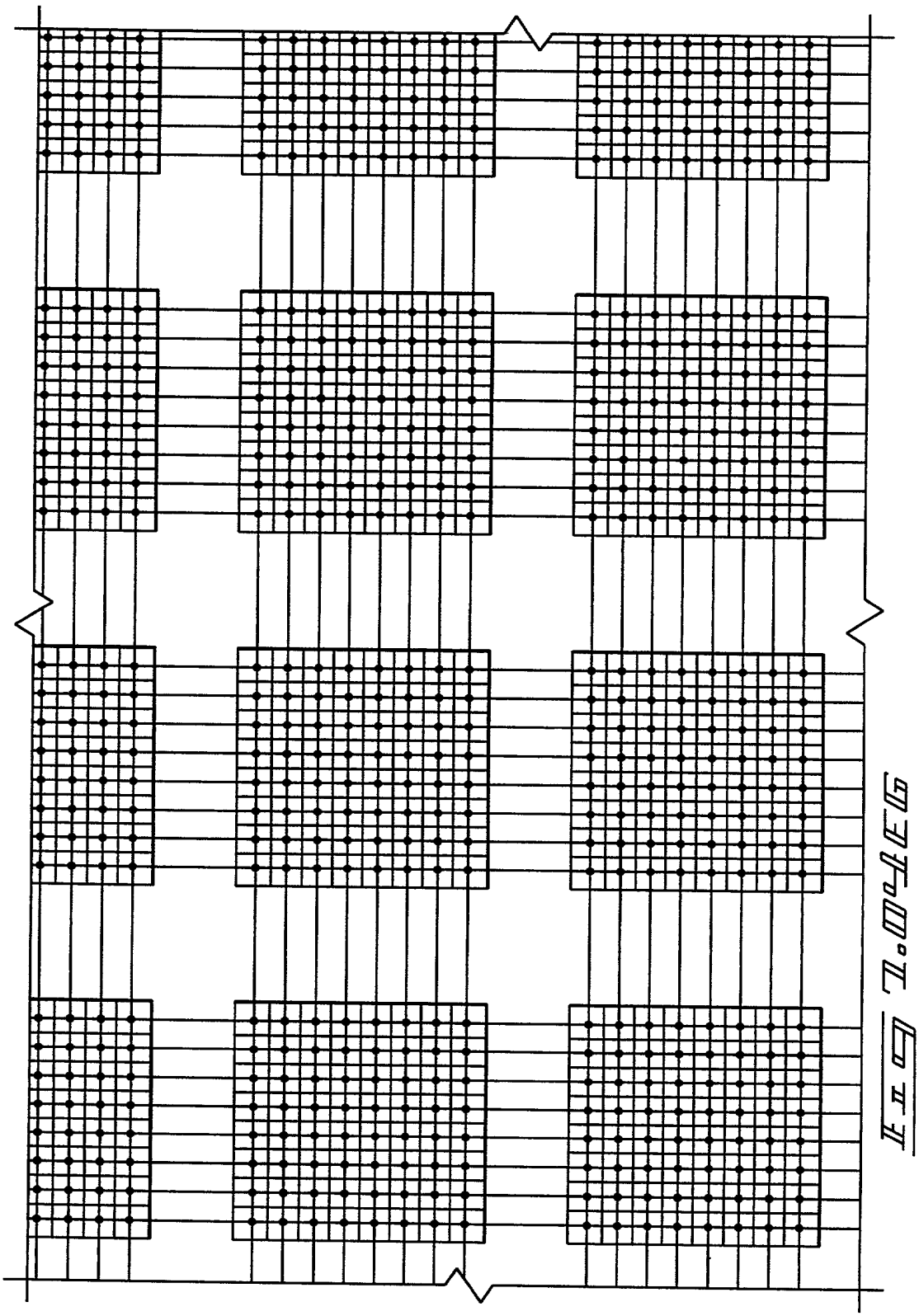


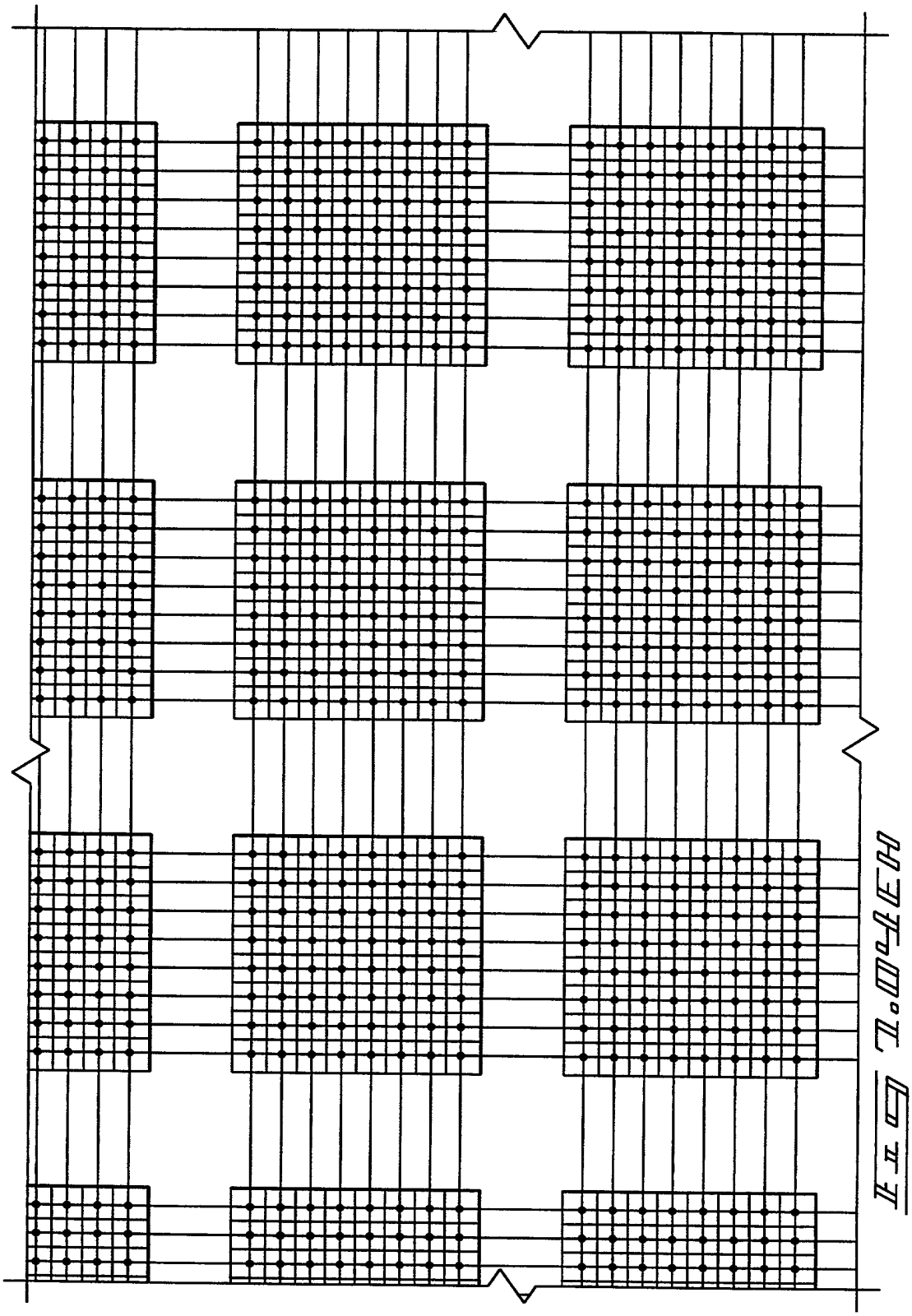
FIG 5

Document Processed - 05/14/01

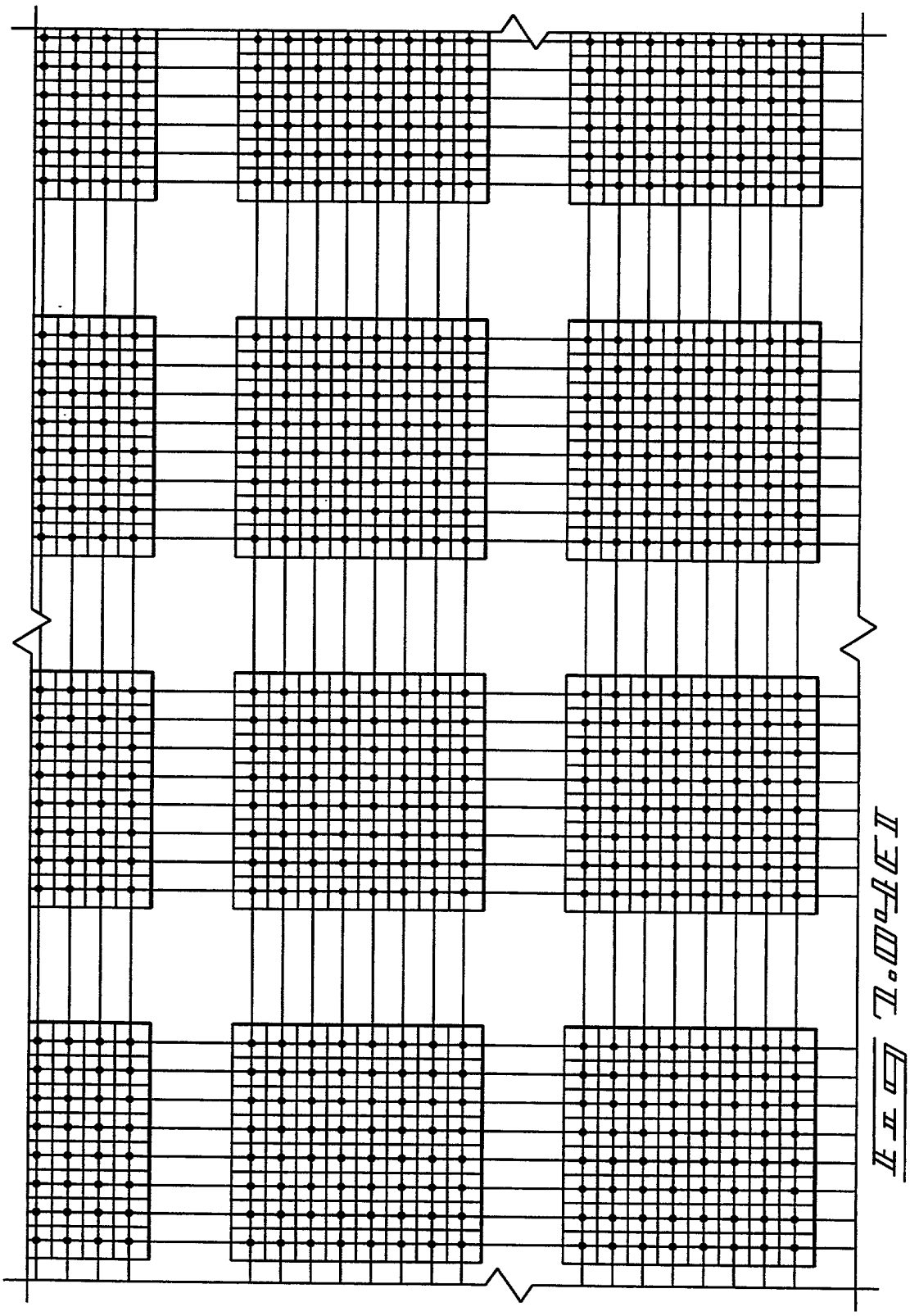

WL3
WL2
WL1
WL0
<67>
<66>
<65>
<64>
romwdec I13
WL7
WL6
WL5
WL4
WL3
WL2
WL1
WL0
<63>
<62>
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<59>
<58>
<57>
<56>
BLOCK7
romwdec I12
WL7
WL6
WL5
WL4
WL3
WL2
WL1
WL0
<55>
<54>
<53>
<52>
<51>
<50>
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<48>
BLOCK6
FIG 10



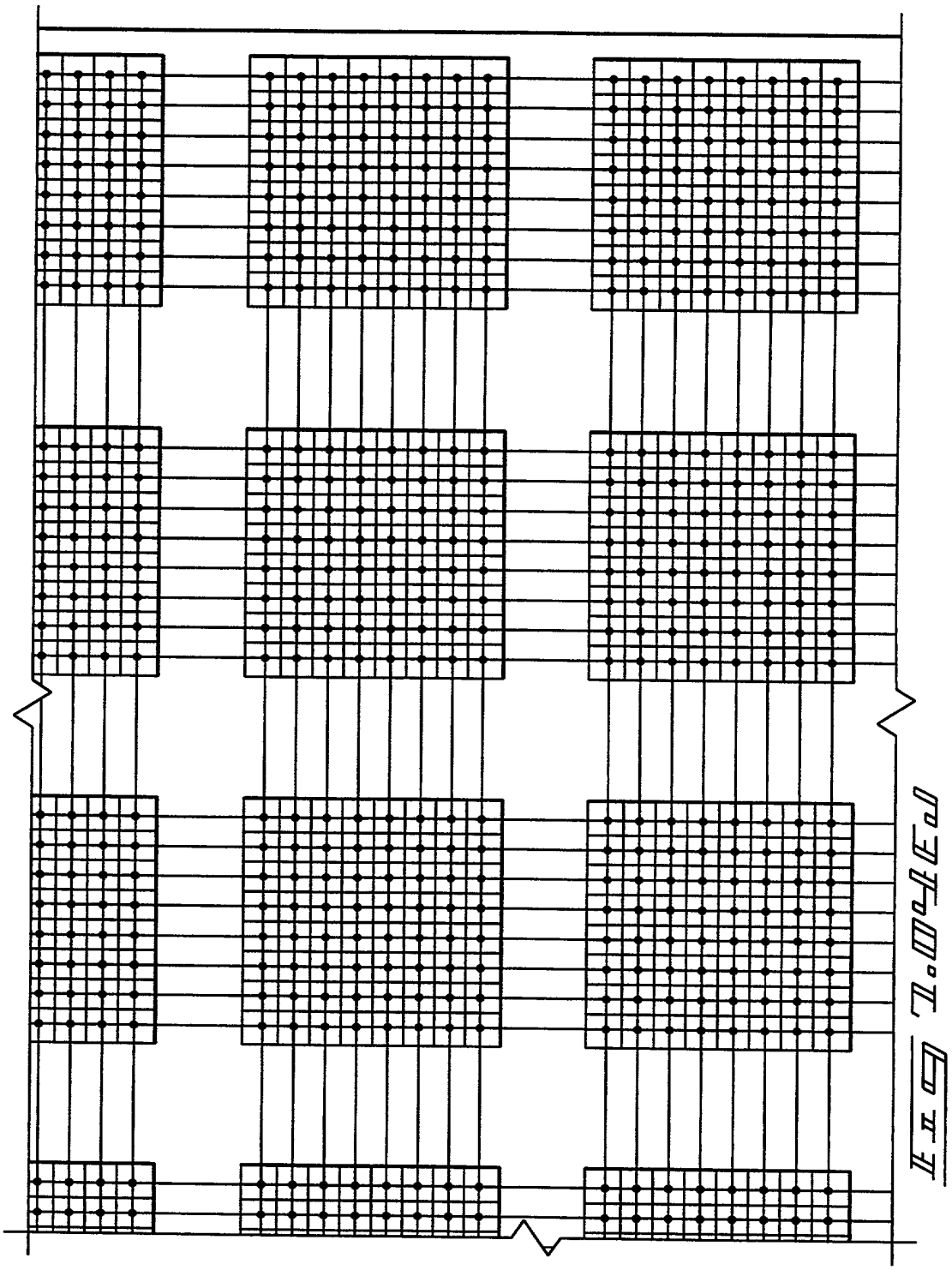
09/22/2006 15:04:04 PAGE 344 * SYSTEM



Patent-No. 5,274,934



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1994-05-24 09:25:59 EPO - DG 1

348/3273

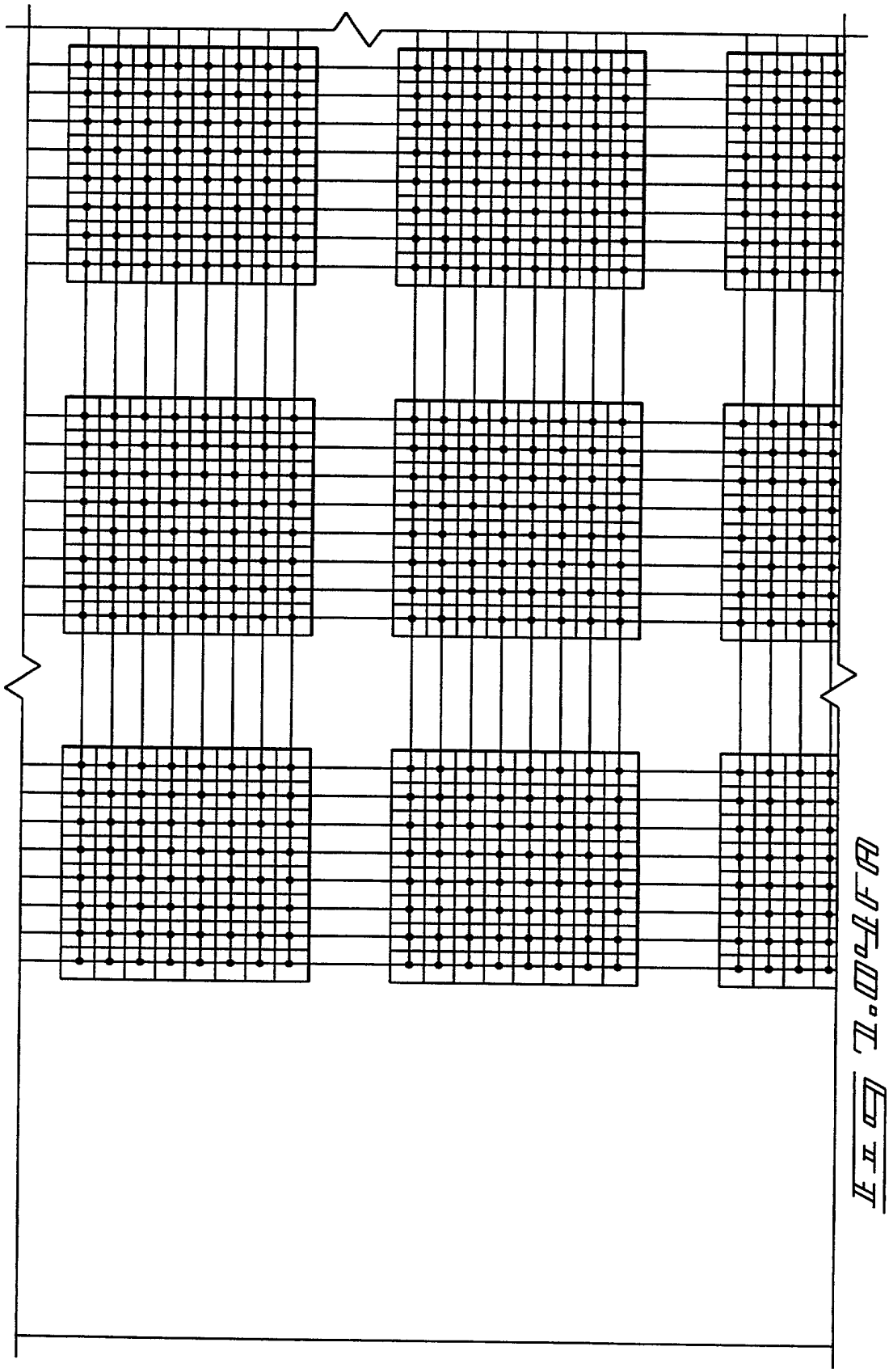


FIG 6A

1994-05-25 15:42:39

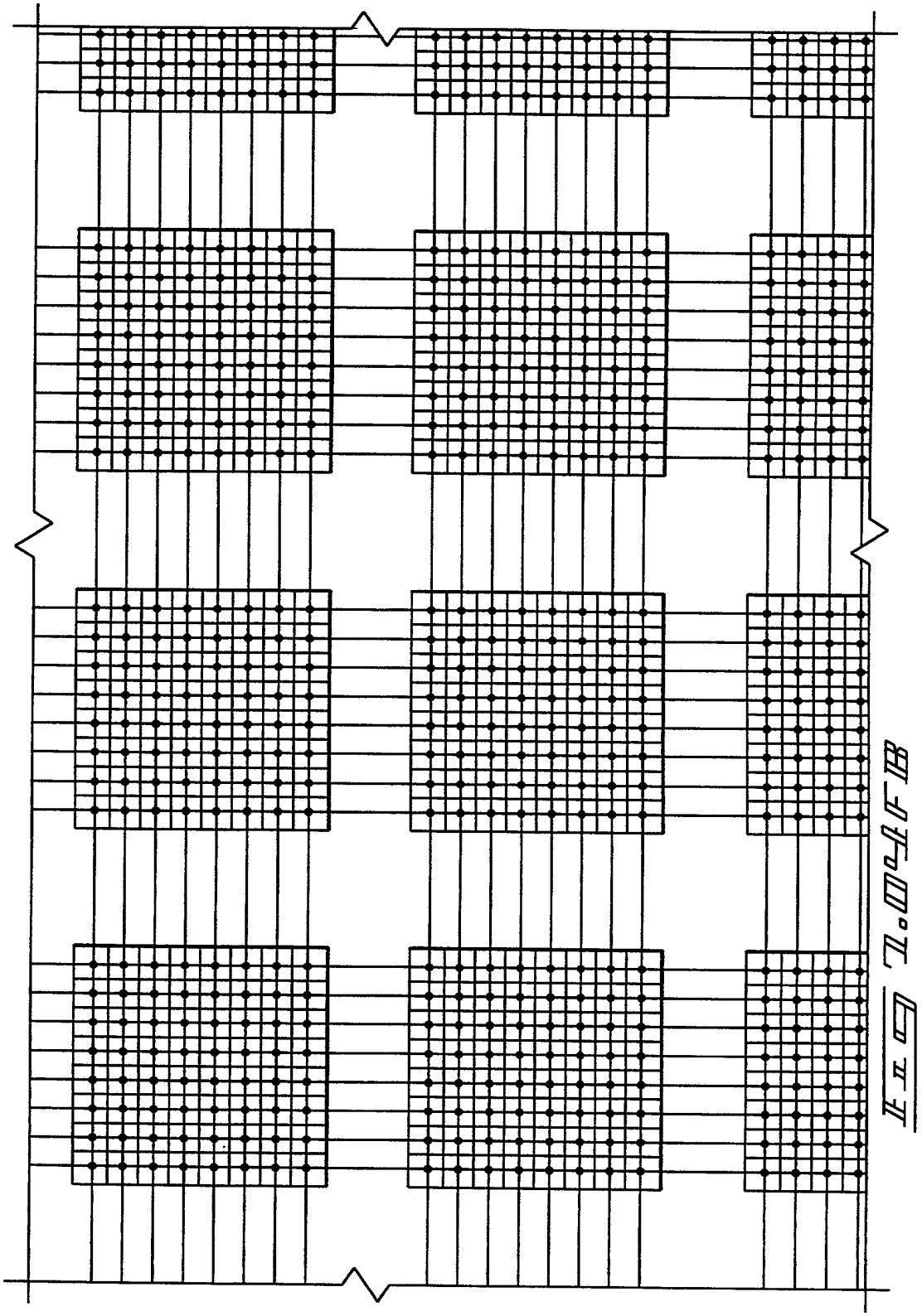


FIG 5

EP 0 954 954 B1

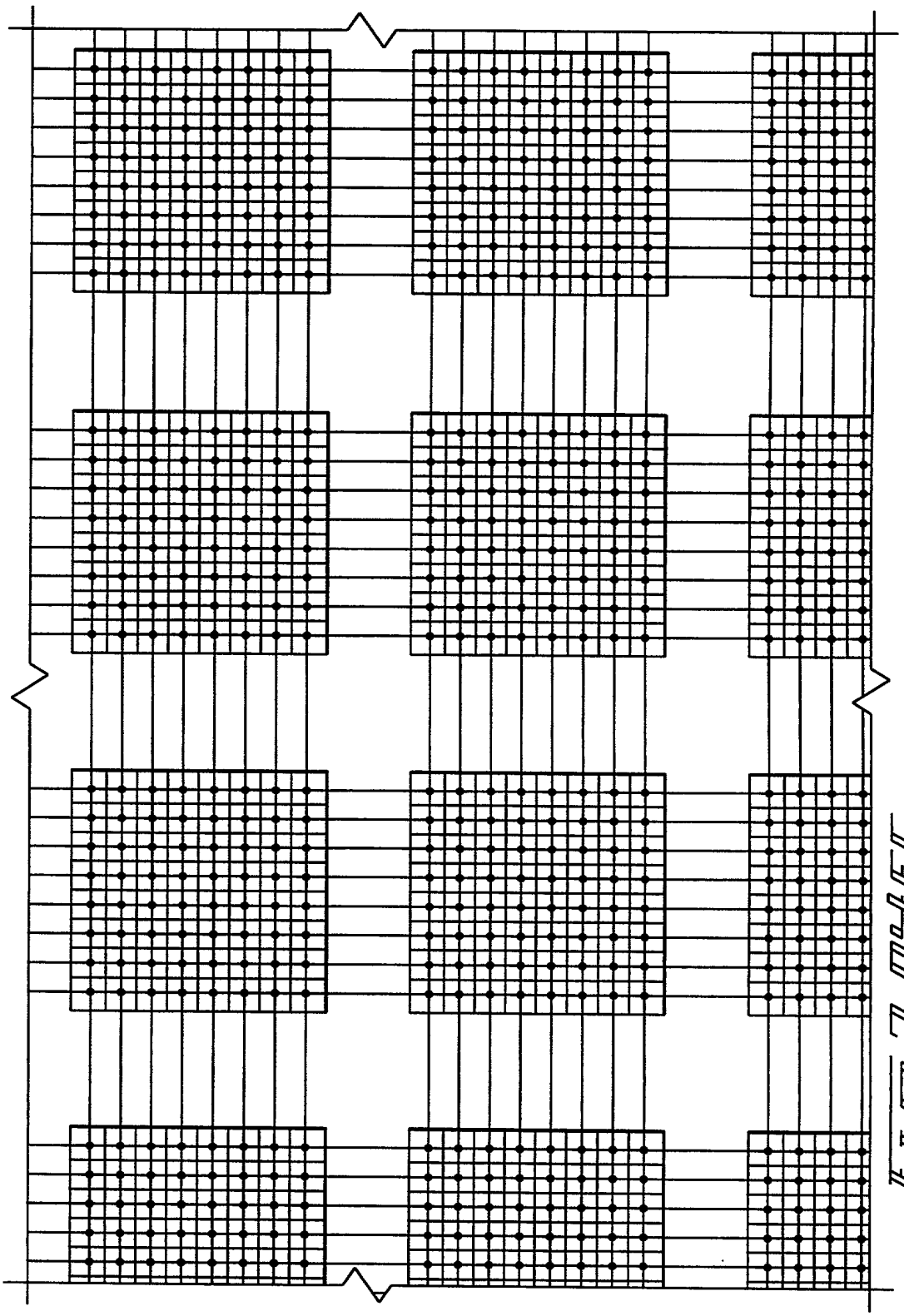
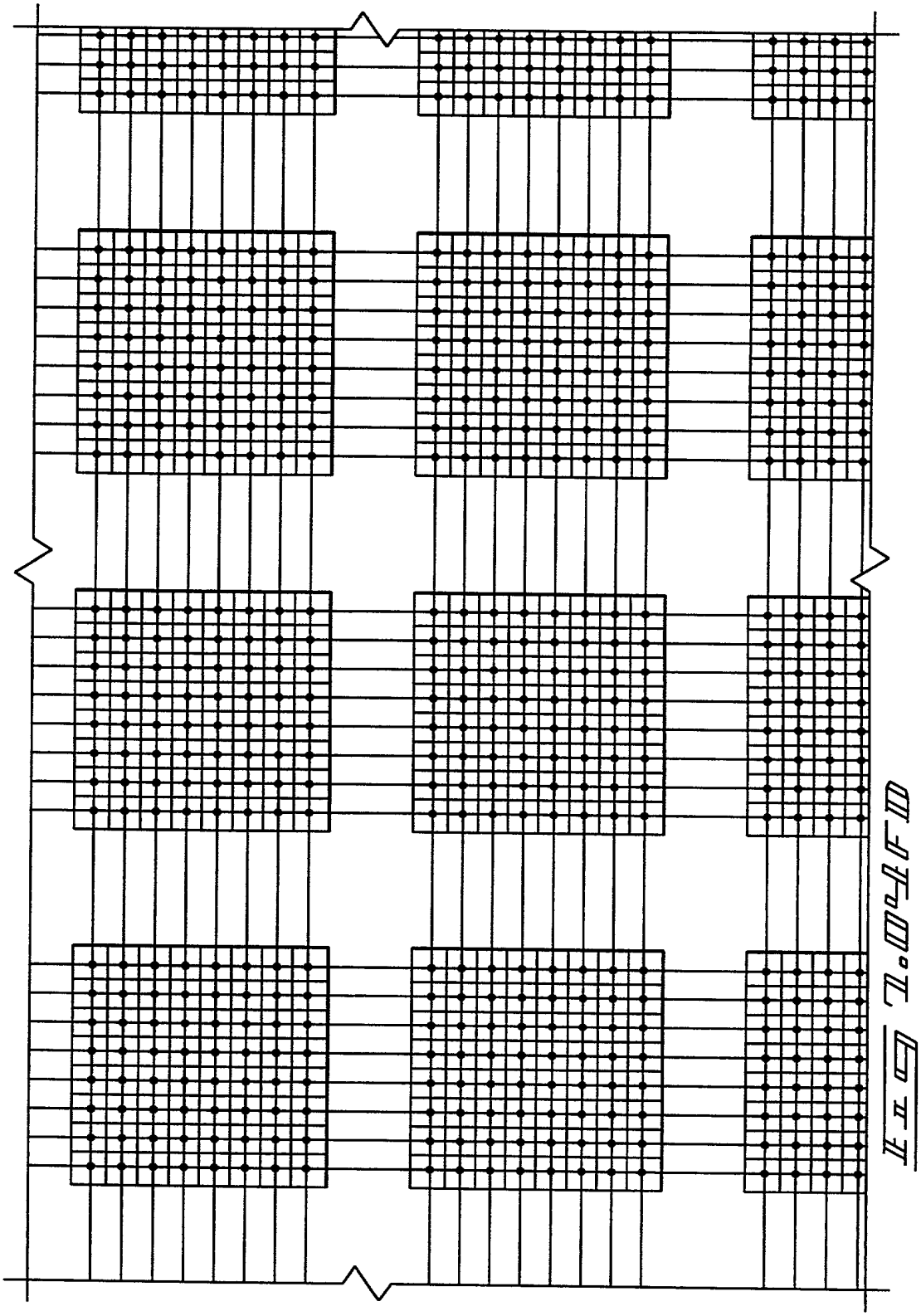
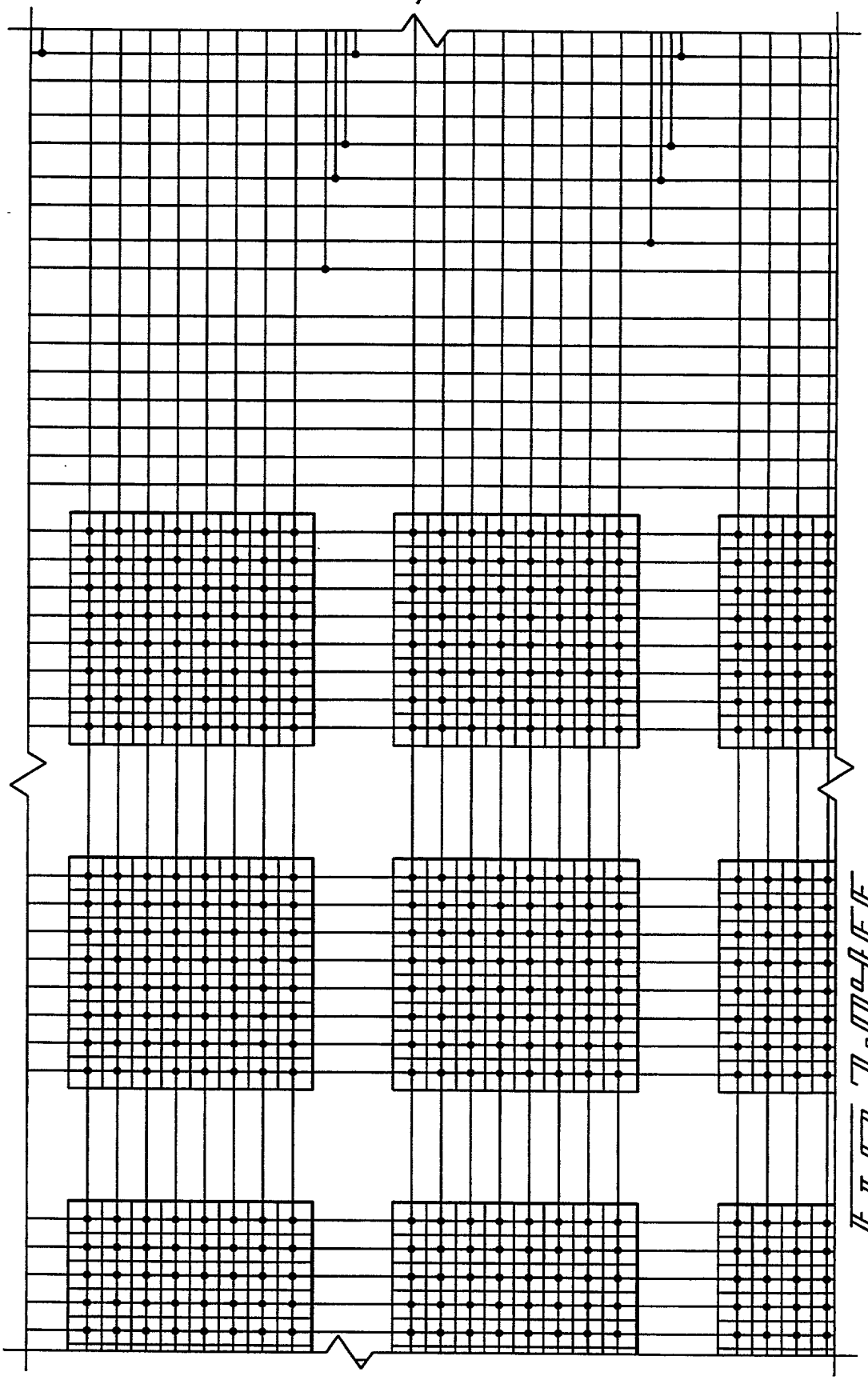


FIG. 6

5,963,952 - 05/4/99



Б-Б
1:400



Фиг. 1

0952605 - 05.11.97

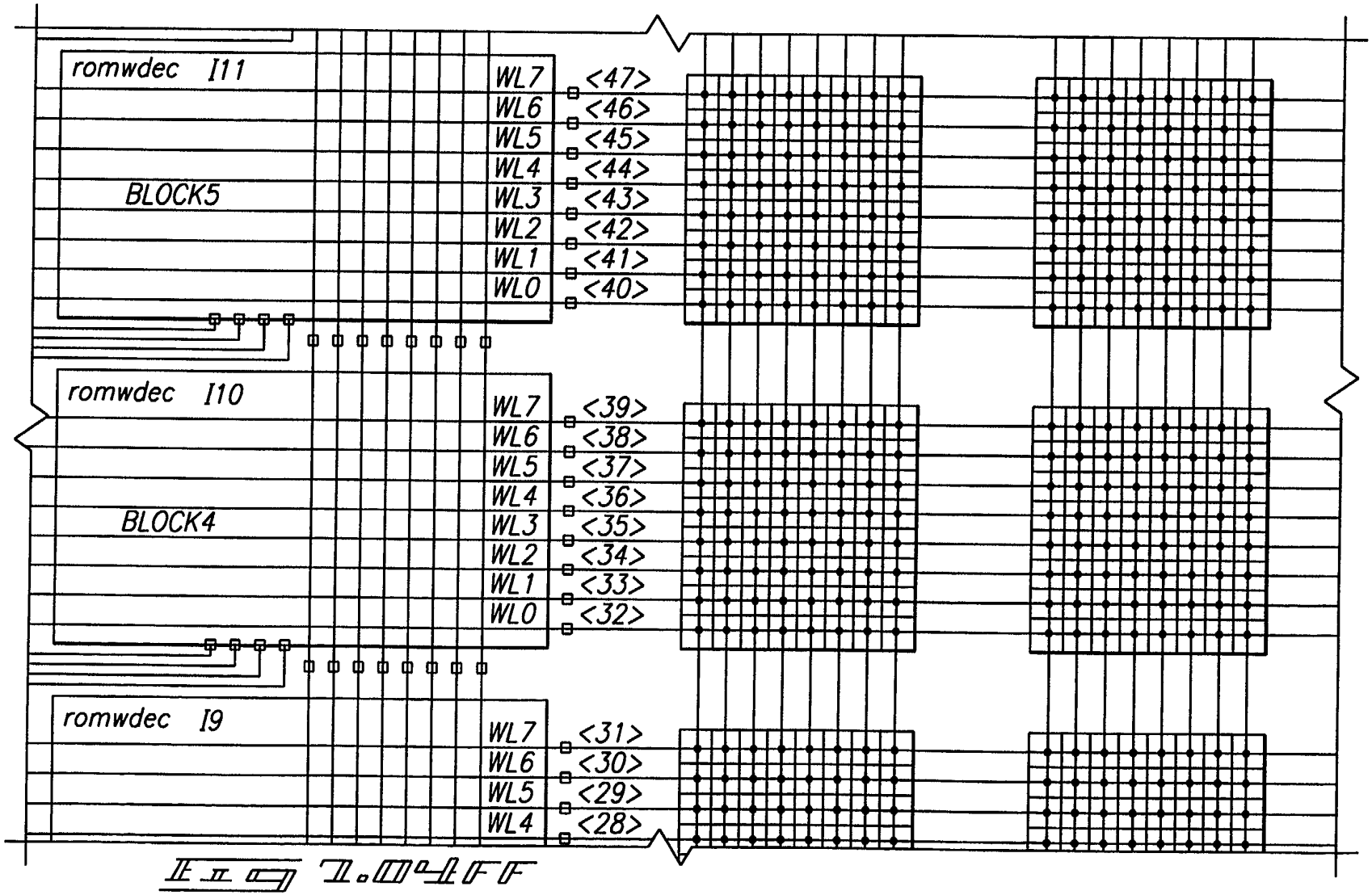

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WL6 <46>
WL5 <45>
WL4 <44>
WL3 <43>
WL2 <42>
WL1 <41>
WL0 <40>
romwdec I10
BLOCK4
WL7 <39>
WL6 <38>
WL5 <37>
WL4 <36>
WL3 <35>
WL2 <34>
WL1 <33>
WL0 <32>
romwdec I9
WL7 <31>
WL6 <30>
WL5 <29>
WL4 <28>
353/3273

Fig 2.04 of

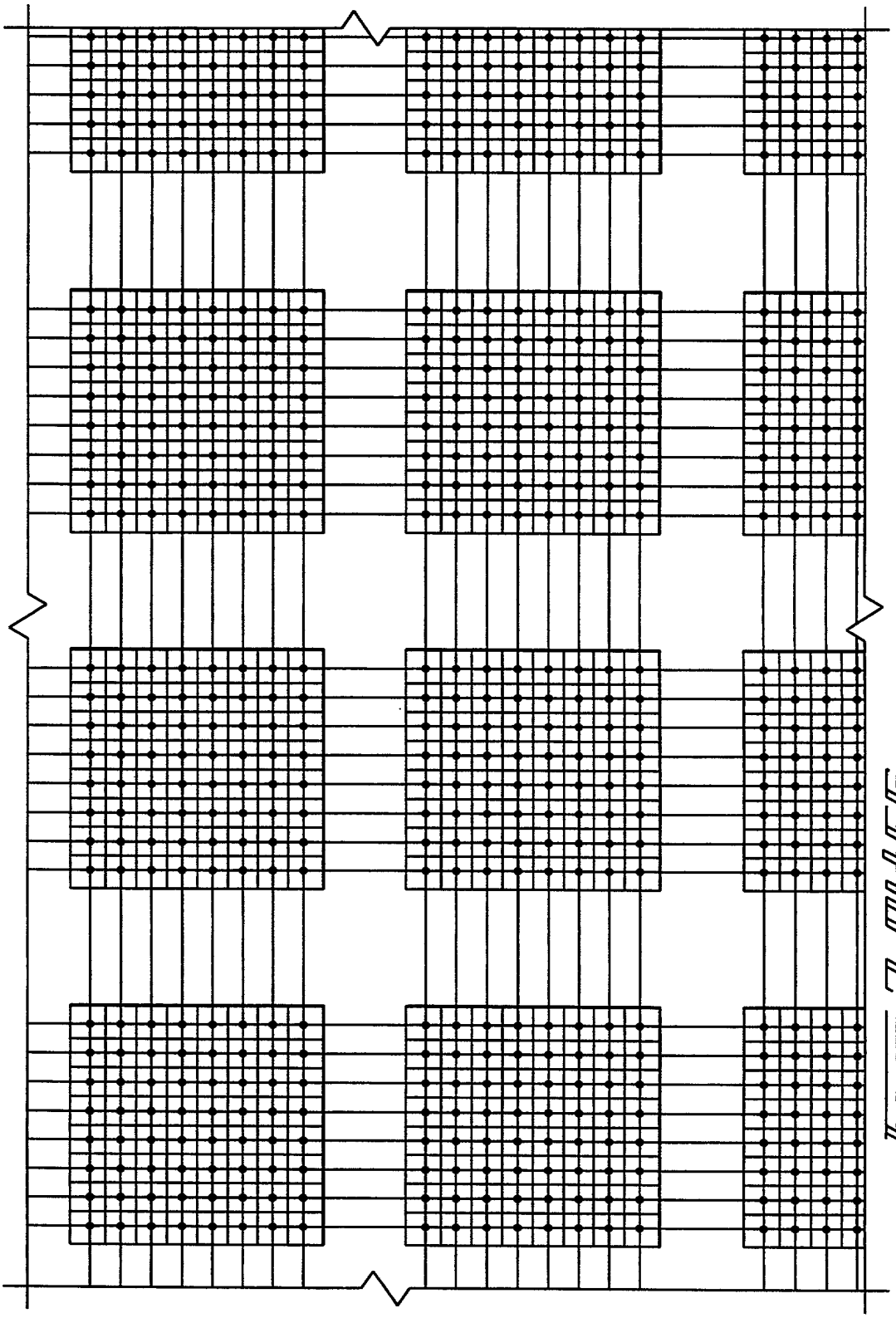


FIG 6

US 6,952,253 B2

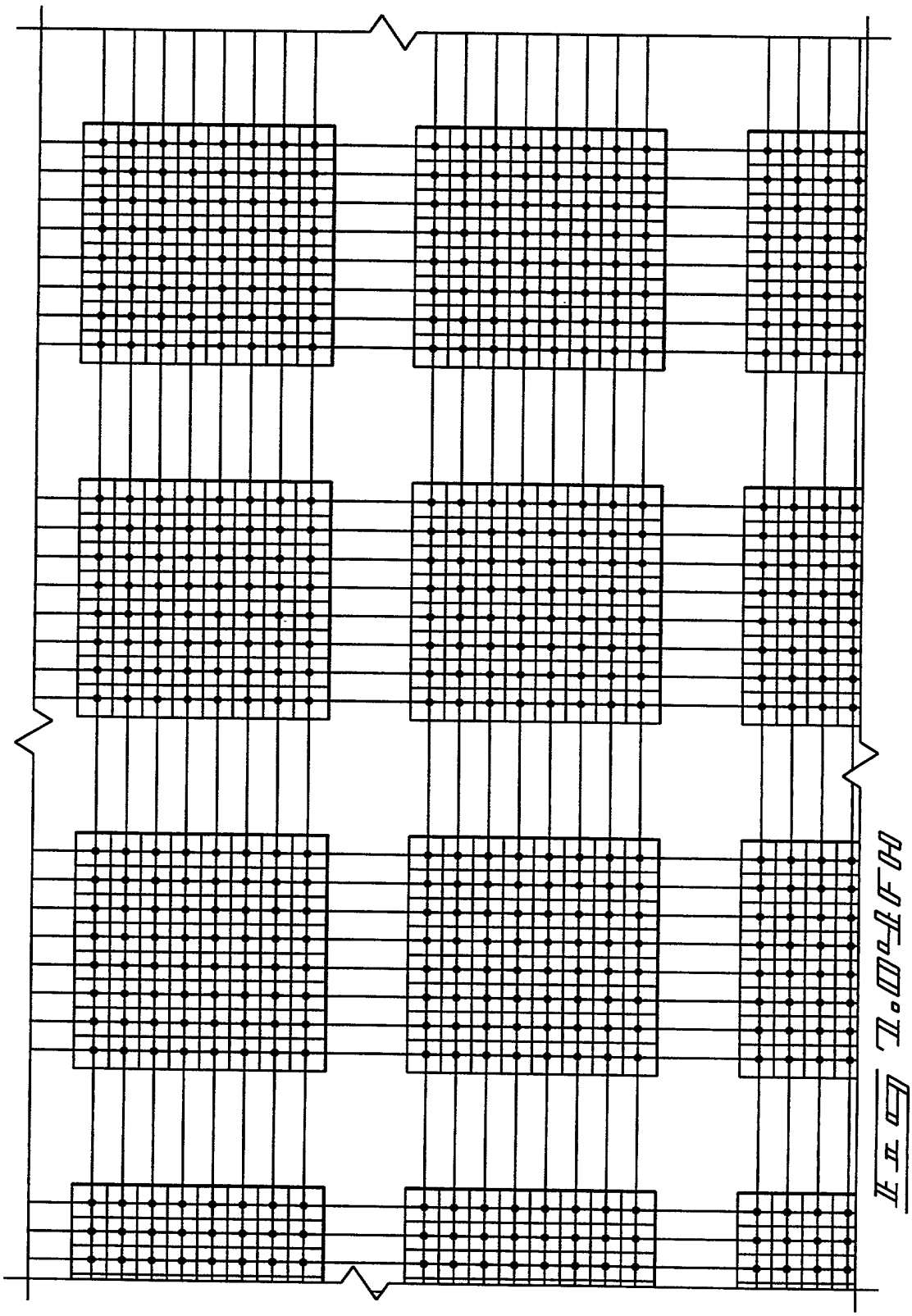


FIG 6

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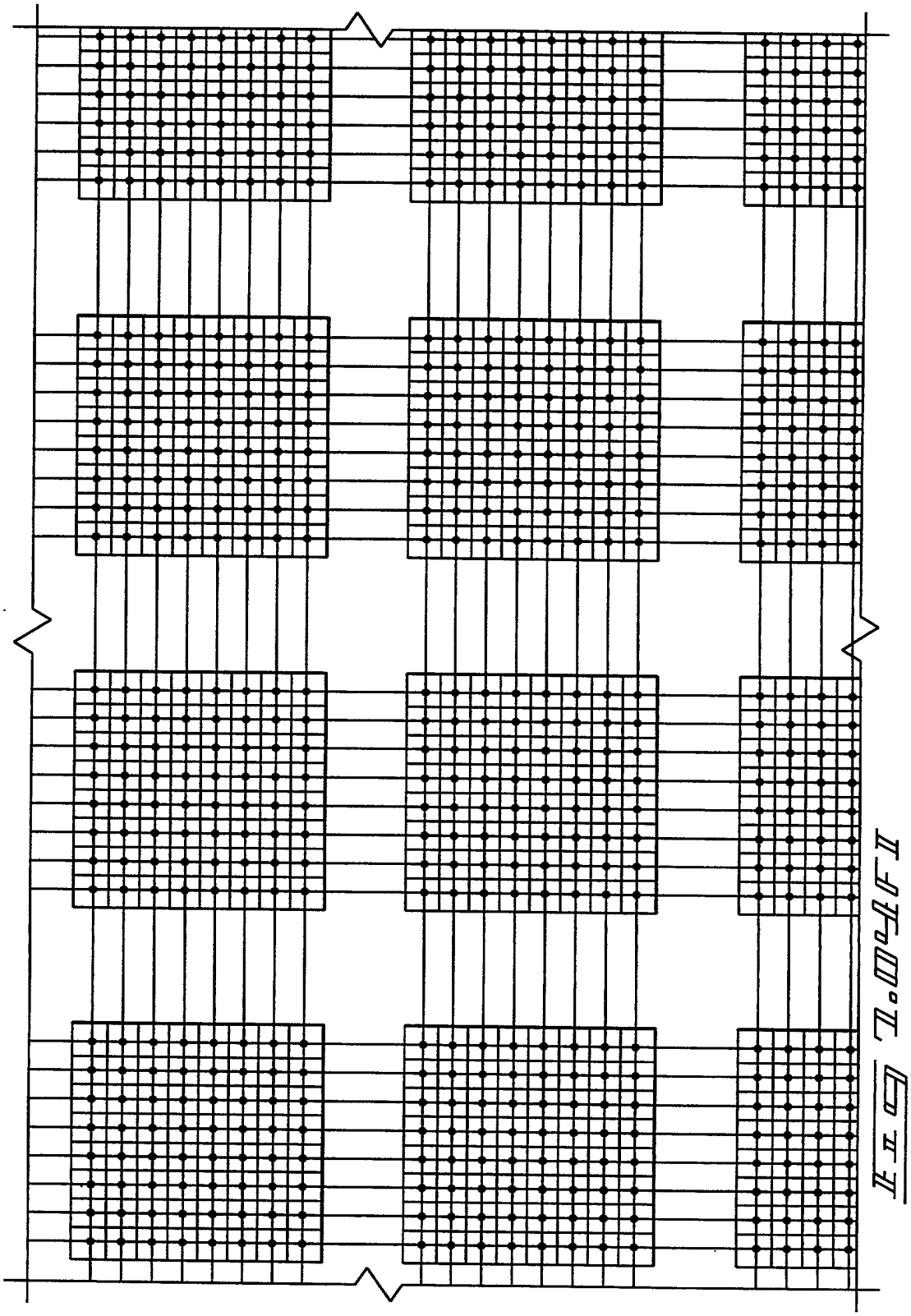
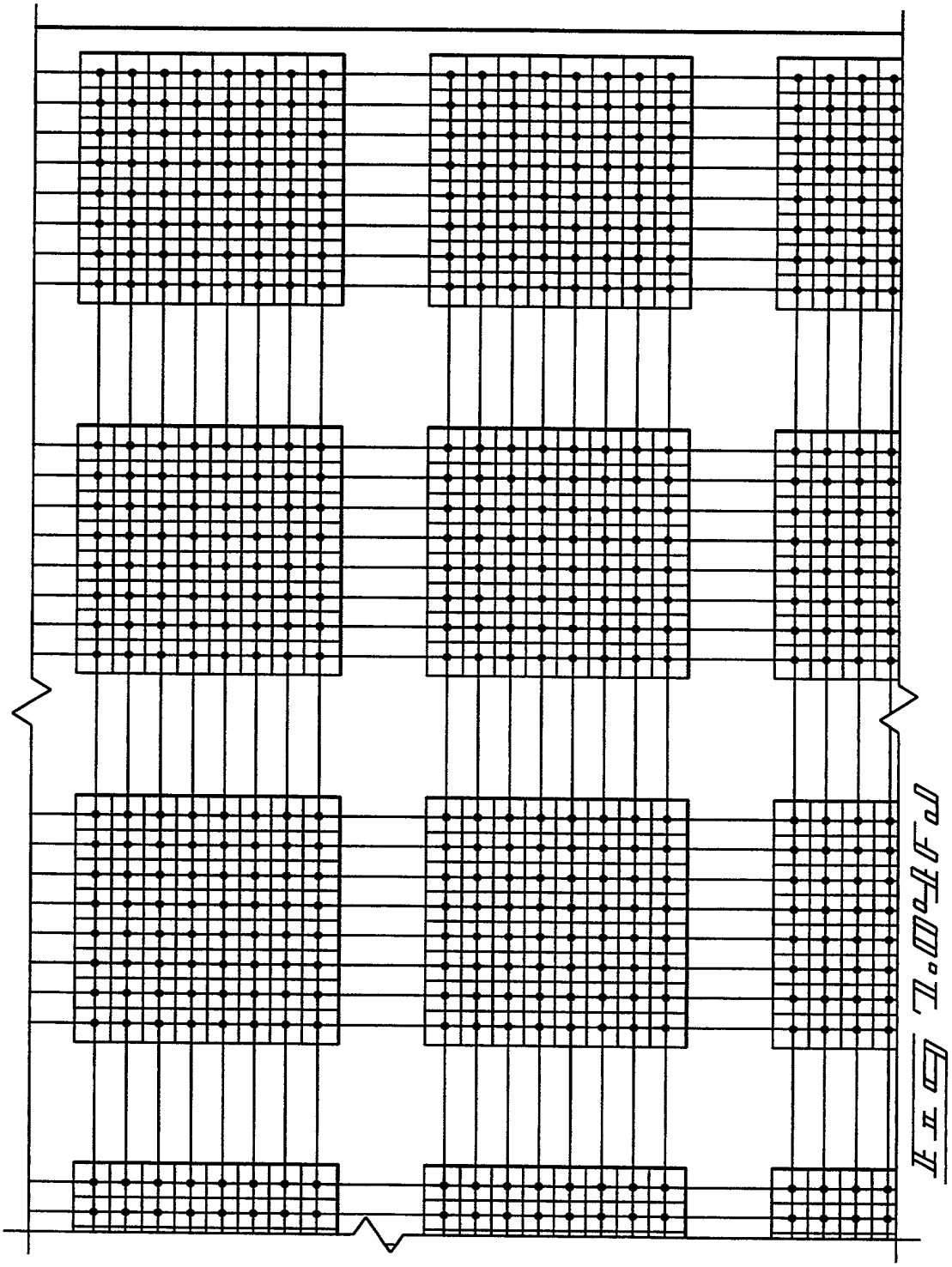


FIG 5

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Рулон L 50 м

Patentanwälte Grünecker

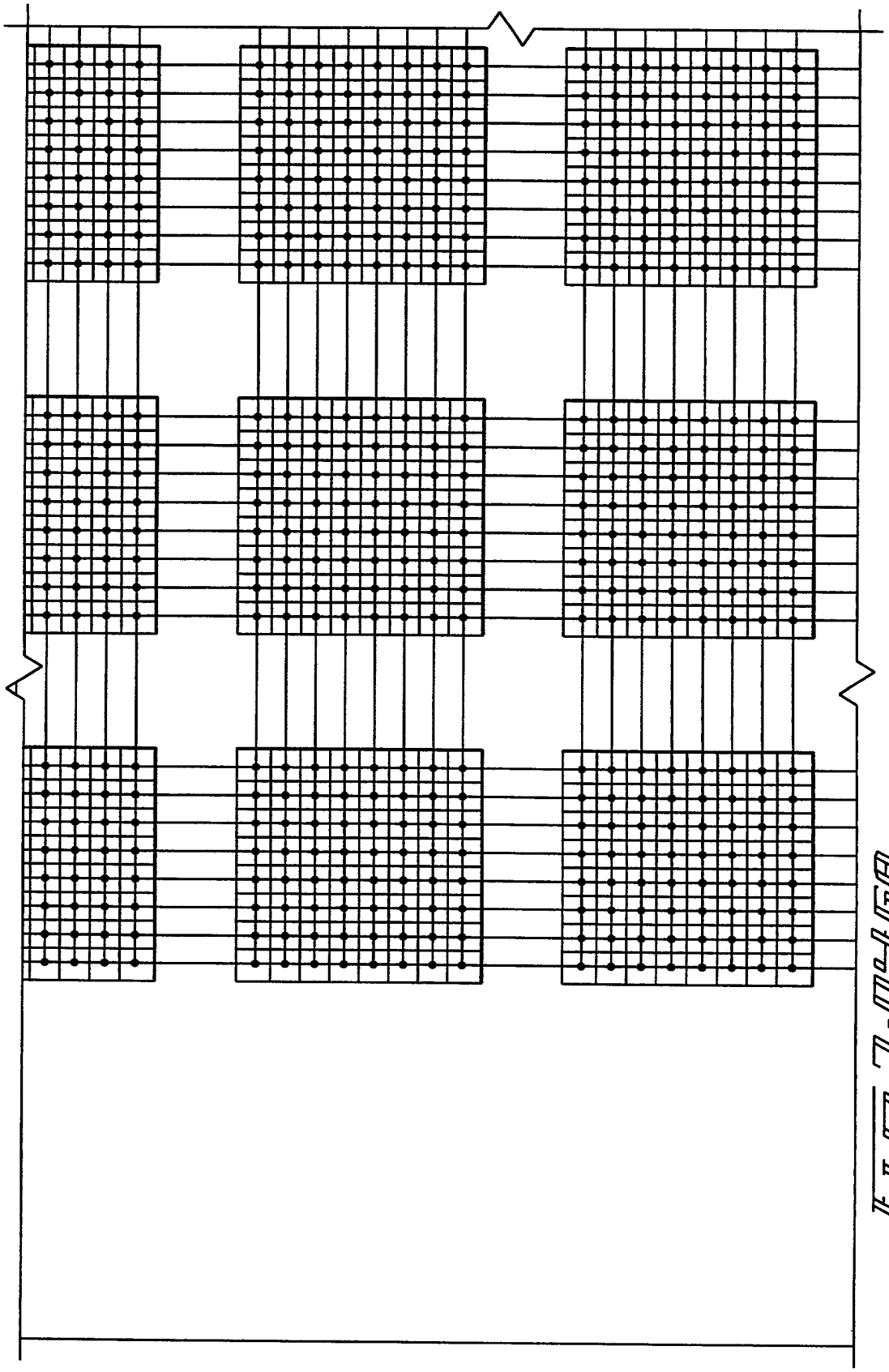


FIG 4004

Document: 3273.358.04.001

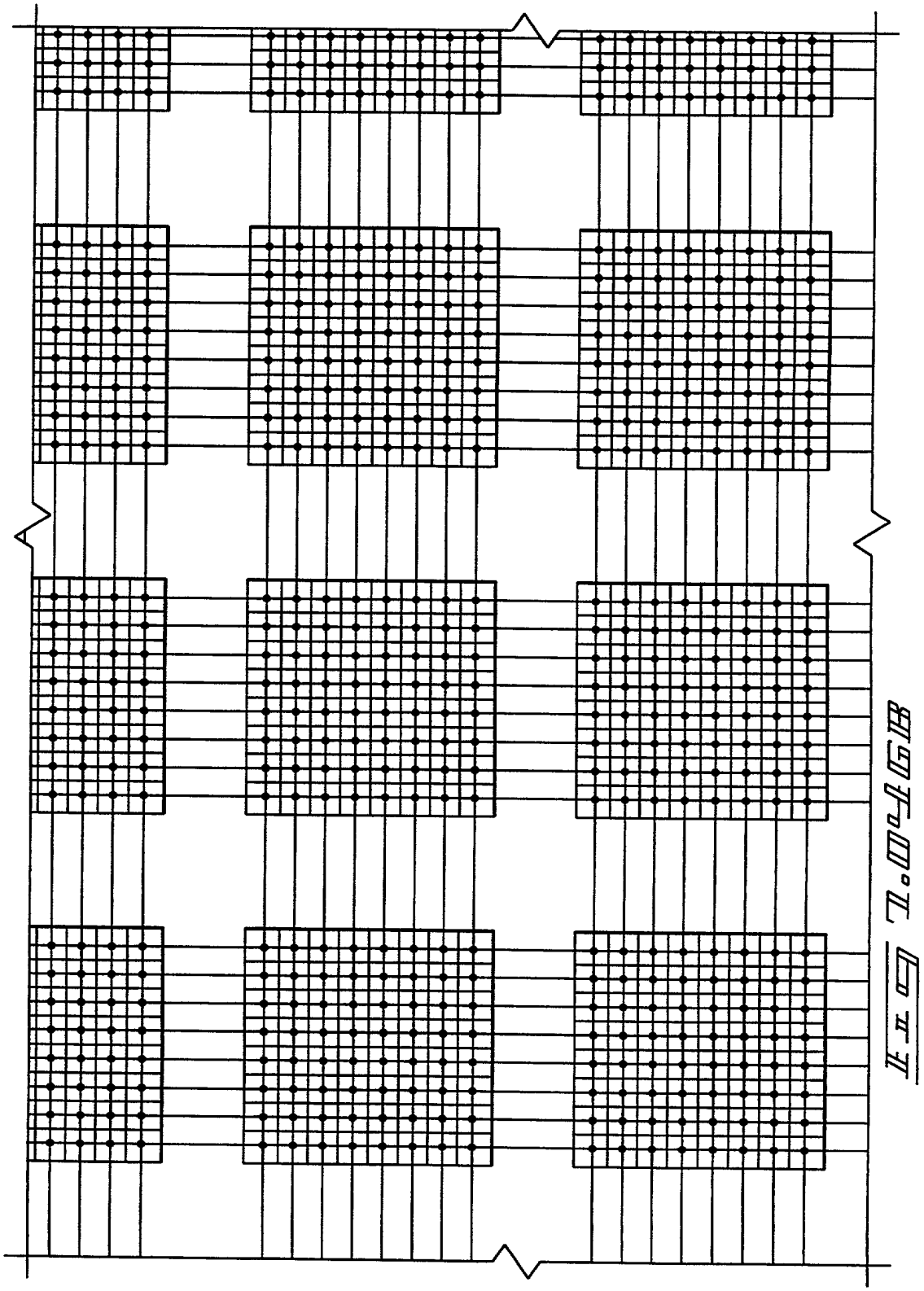


FIG 7

US 6,952,825 B1

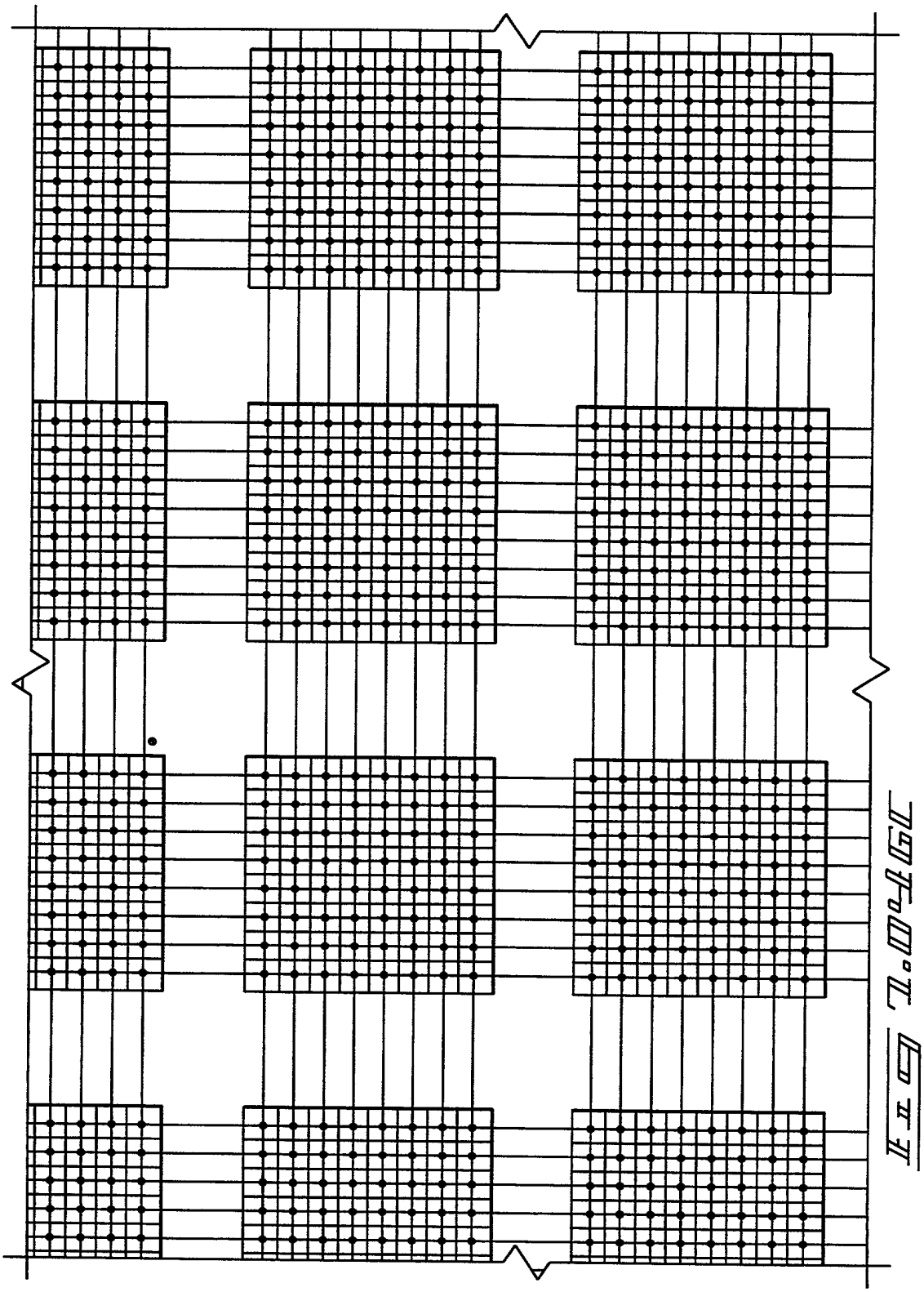


FIG. 7

Electronic Patent Publication

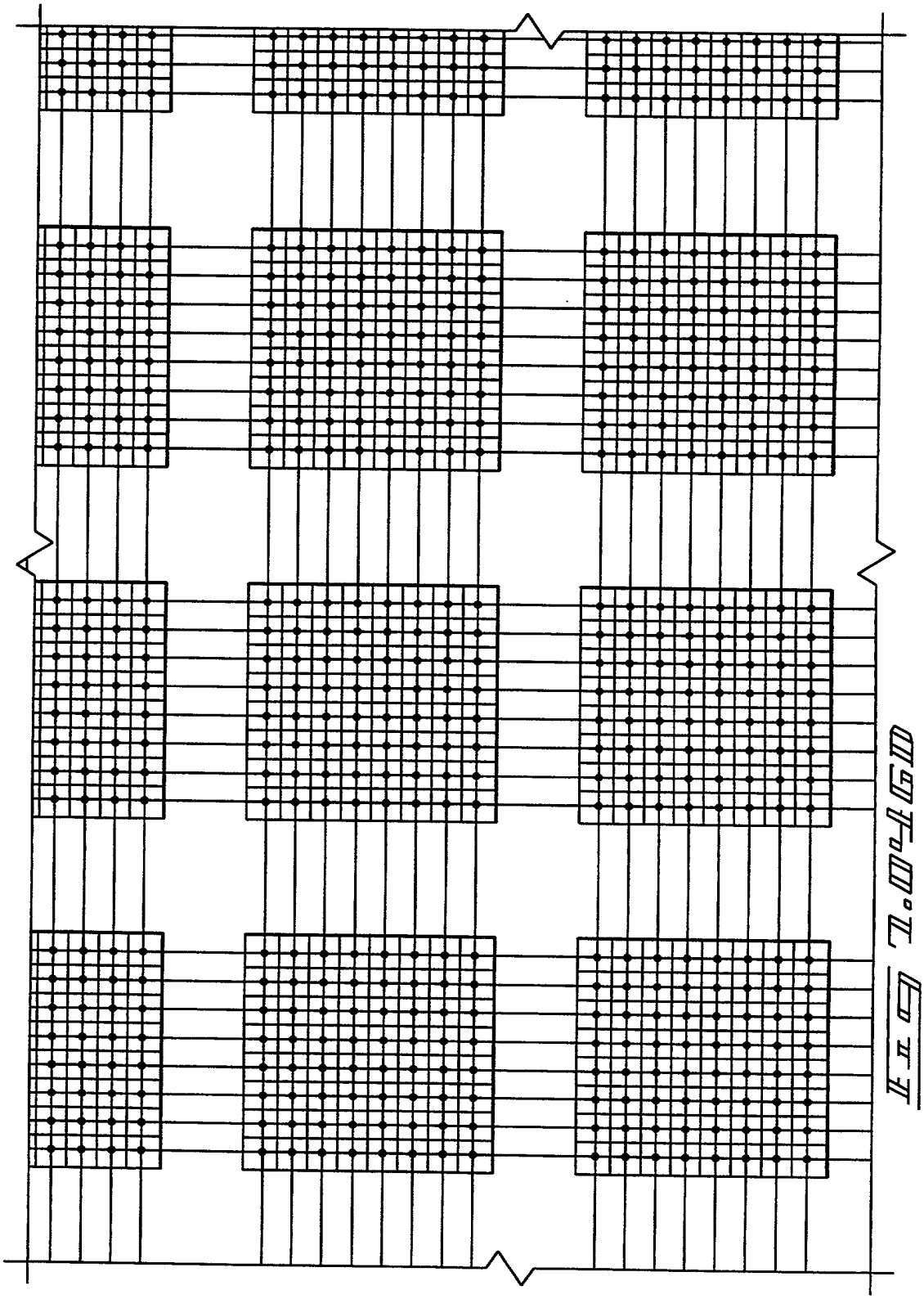
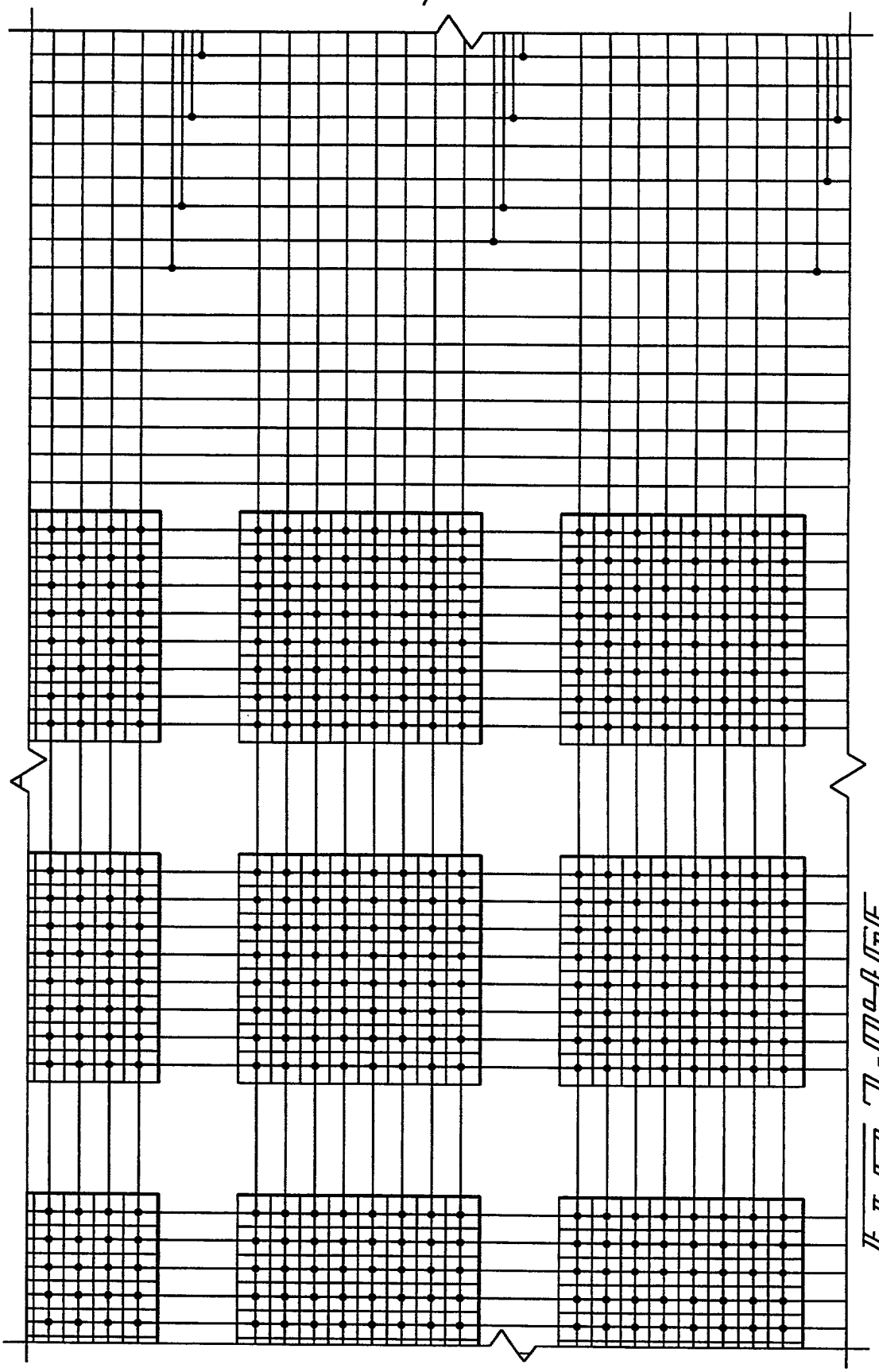


FIG 7.00.L 0547

0547 - 0552 - 0565 - 0596



Лист 1.0454

Patentscope - 05.04.2005

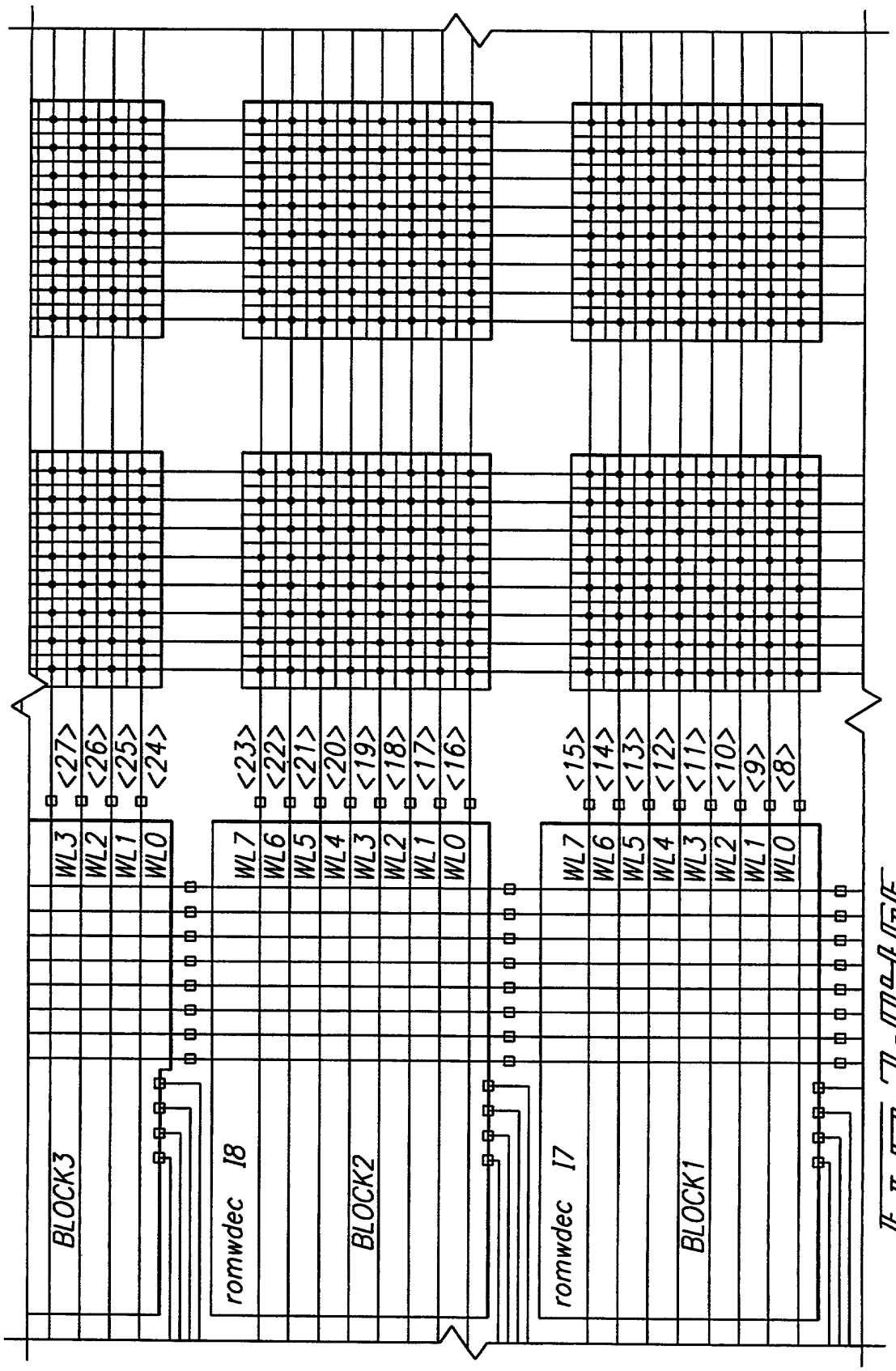
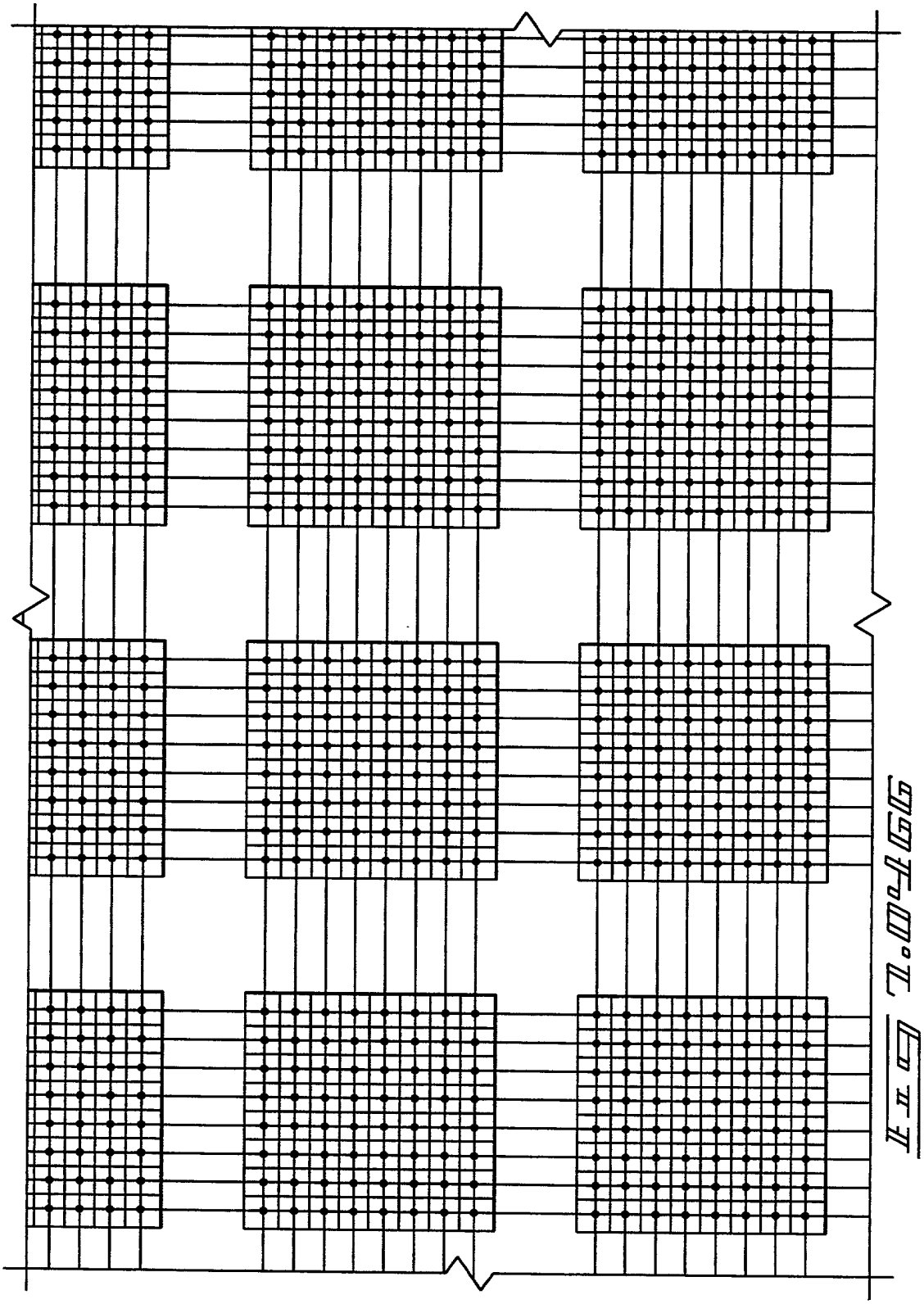

BLOCK3
BLOCK2
BLOCK1
romwdec I8
romwdec I7
WL3
WL2
WL1
WL0
WL7
WL6
WL5
WL4
<27>
<26>
<25>
<24>
<23>
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Fig. 11



4,954,954 - 05/04/90

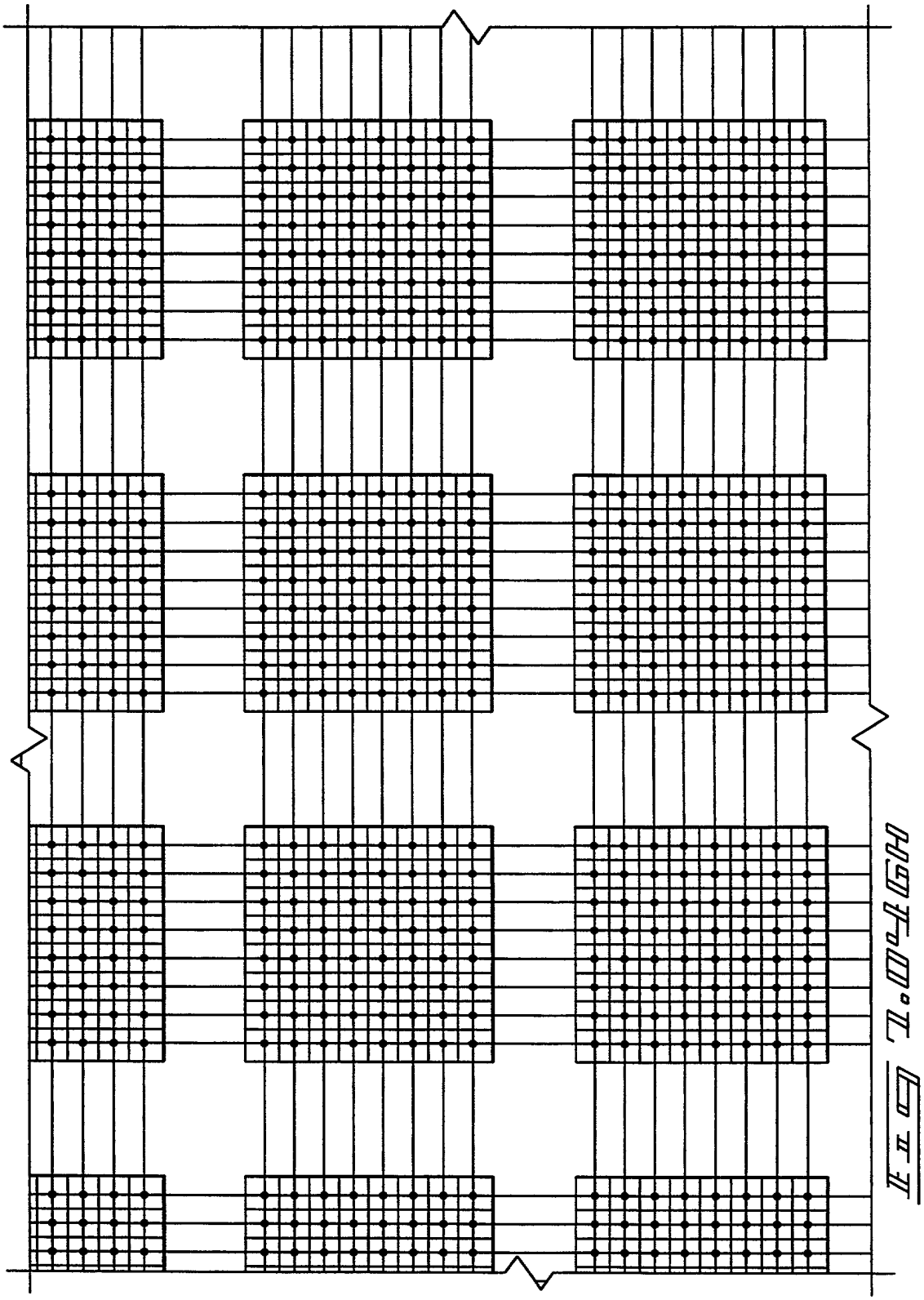
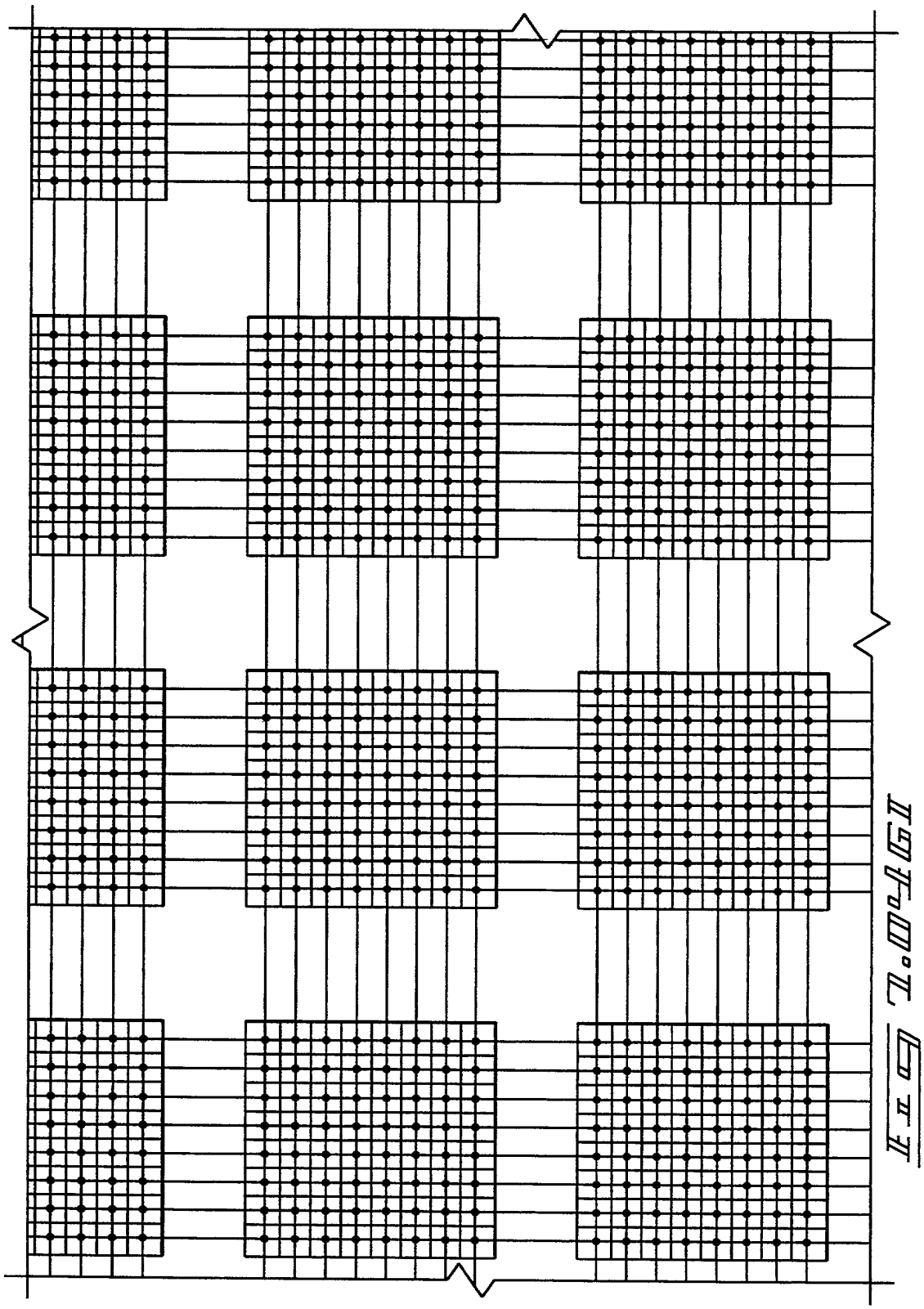


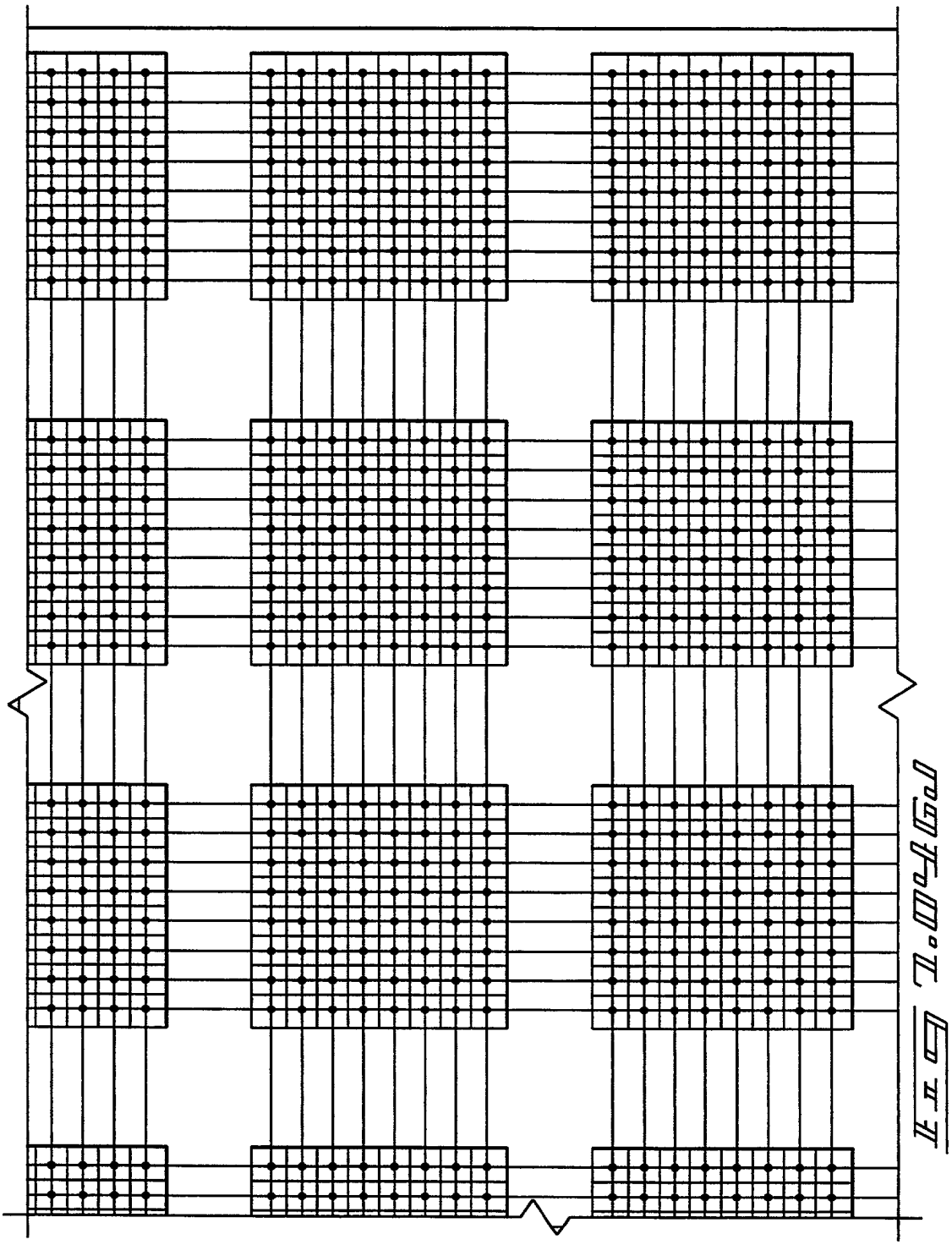
FIG 10A

Document Ref: 2502495

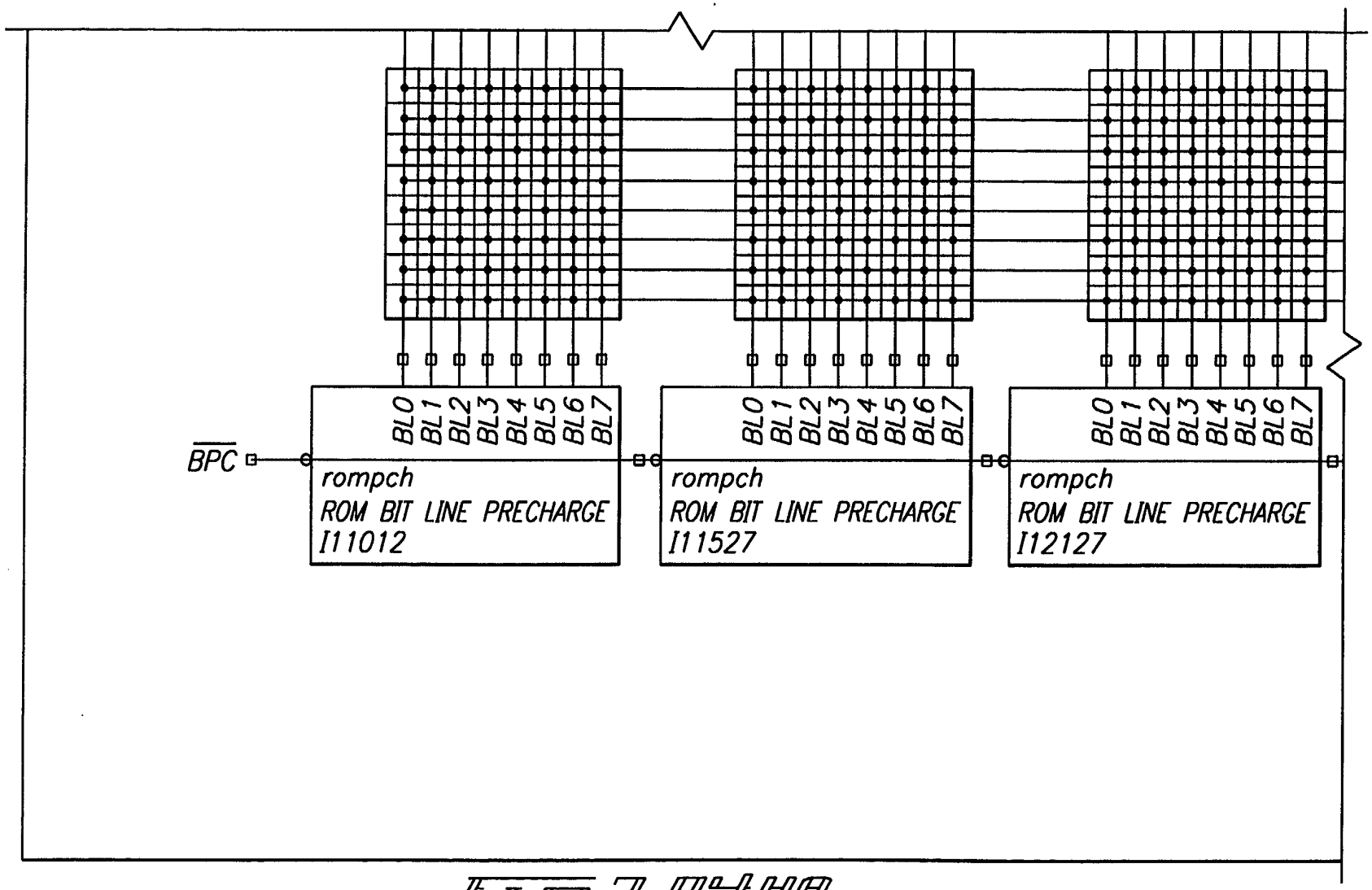


Вид Г

Подлежит обязательному



Electronic Patent Publication


BL0
BL1
BL2
BL3
BL4
BL5
BL6
BL7
BPC
rompch
ROM BIT LINE PRECHARGE
I11012
rompch
ROM BIT LINE PRECHARGE
I11527
rompch
ROM BIT LINE PRECHARGE
I12127
368/3273

Фиг. 10

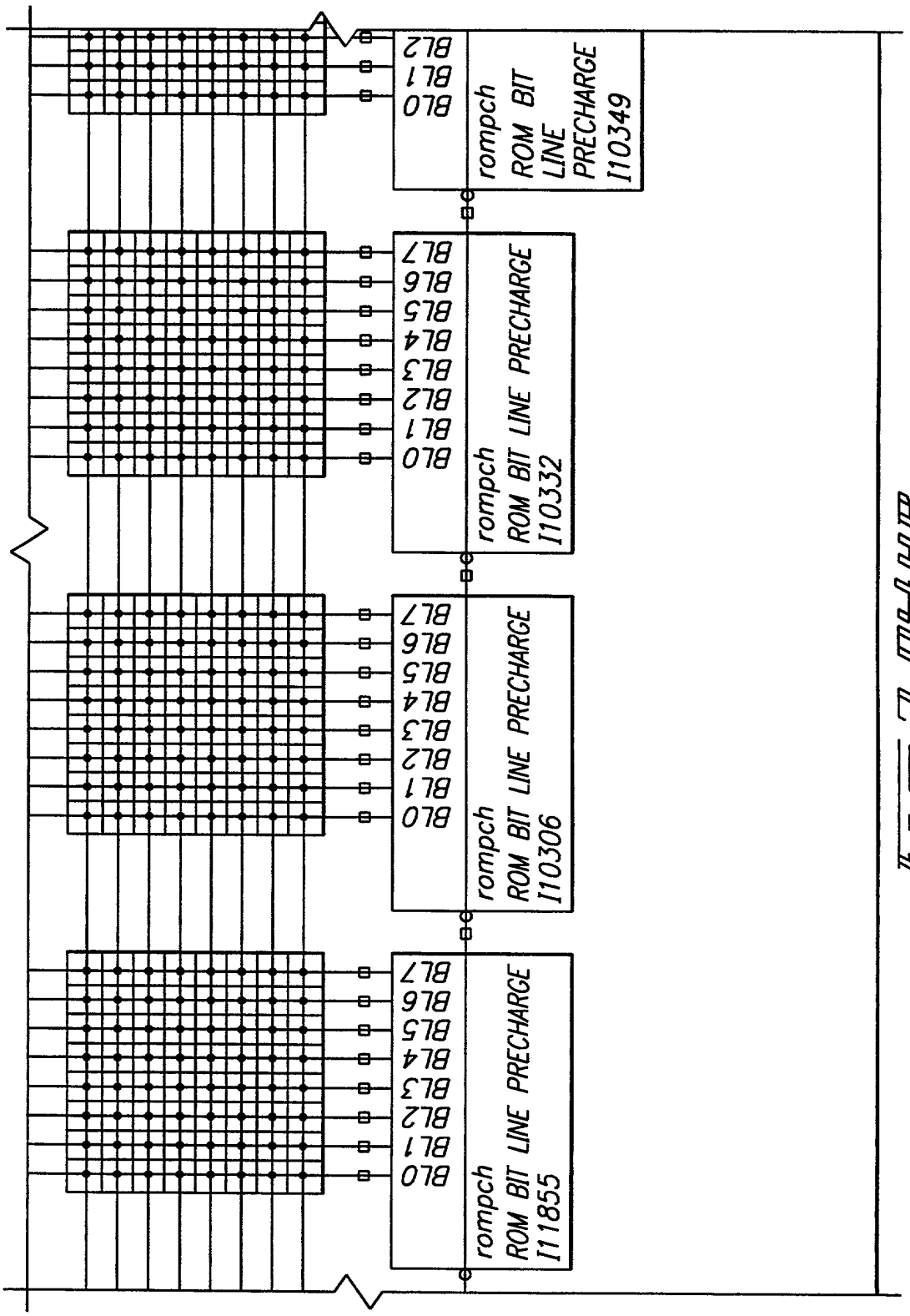


FIG 6

Patent application publication

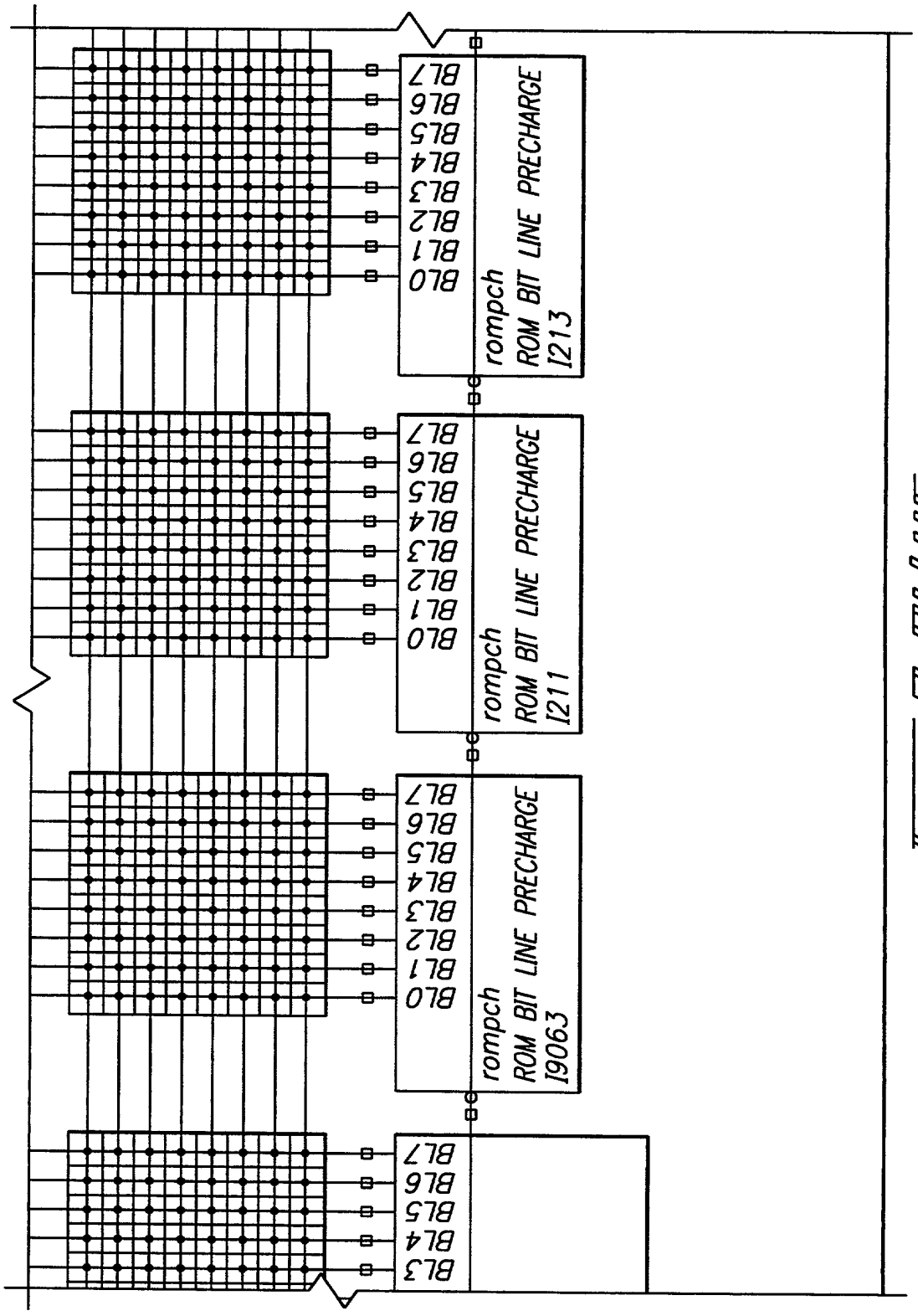

BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0
rompch
ROM BIT LINE PRECHARGE
I213
I211
I9063

FIG. 10A

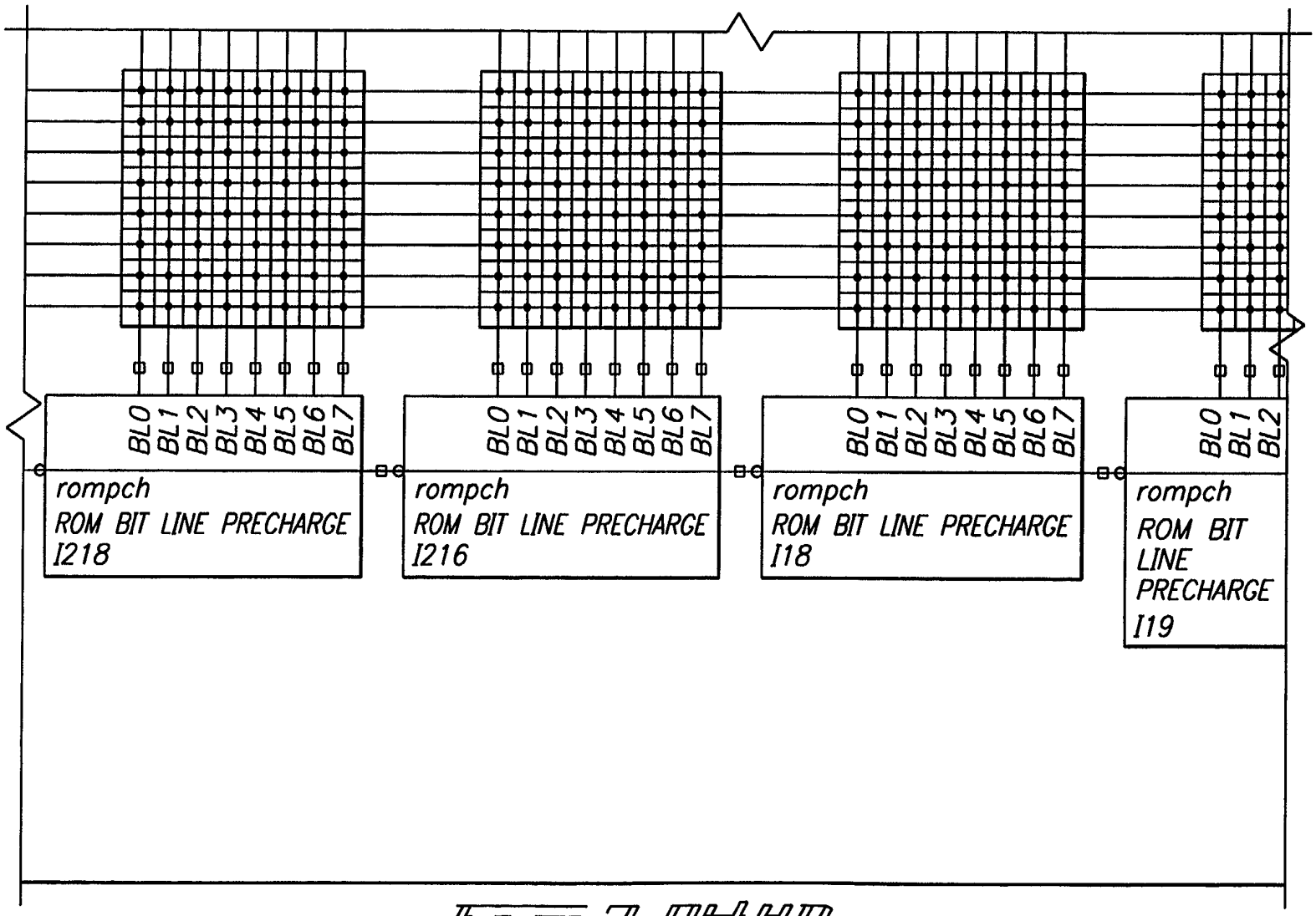
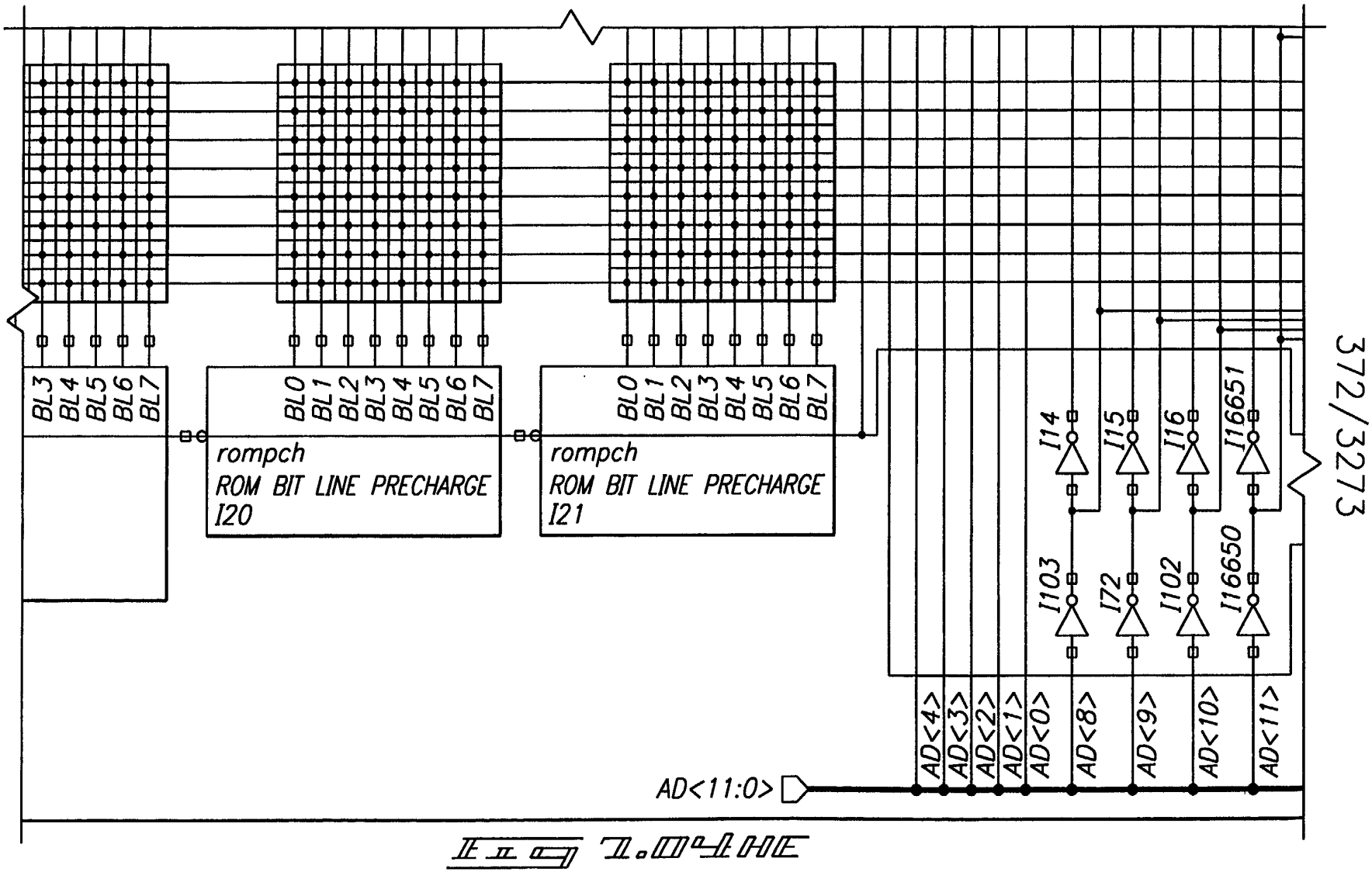

BL0
BL1
BL2
BL3
BL4
BL5
BL6
BL7
rompch
ROM BIT LINE PRECHARGE
I218
rompch
ROM BIT LINE PRECHARGE
I216
rompch
ROM BIT LINE PRECHARGE
I18
rompch
ROM BIT LINE PRECHARGE
I19

Fig 1.04HD


BL3
BL4
BL5
BL6
BL7
BL0
BL1
BL2
BL3
BL4
BL5
BL6
BL7
rompch
ROM BIT LINE PRECHARGE
I20
rompch
ROM BIT LINE PRECHARGE
I21
I14
I15
I16
I16651
I103
I72
I102
I16650
AD<4>
AD<3>
AD<2>
AD<1>
AD<0>
AD<8>
AD<9>
AD<10>
AD<11>
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372/3273

Фиг 1.0946

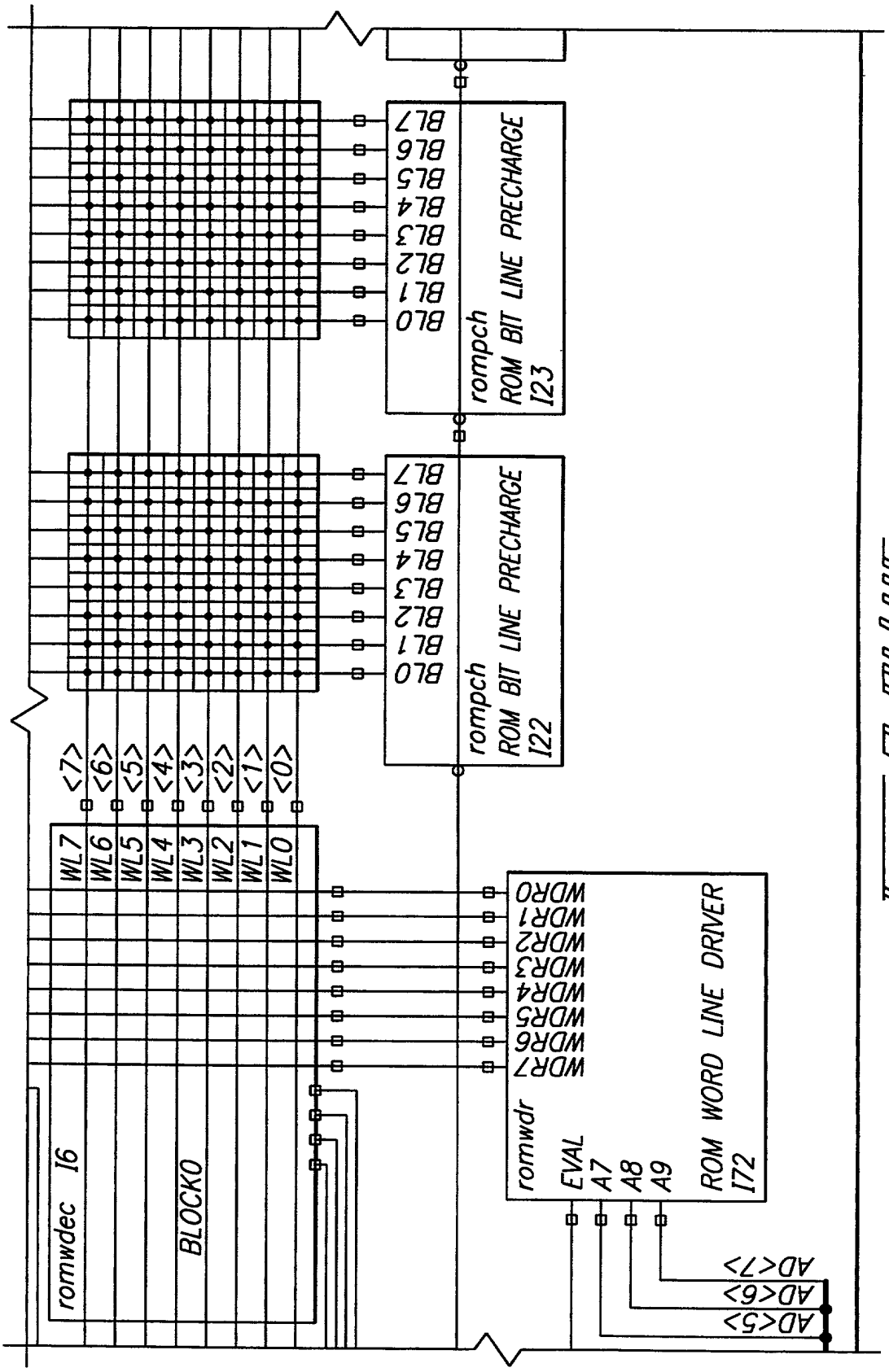

romwdec I6
BLOCK0
WL7
WL6
WL5
WL4
WL3
WL2
WL1
WL0
<7>
<6>
<5>
<4>
<3>
<2>
<1>
<0>
rompch
ROM BIT LINE PRECHARGE
I22
BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0
rompch
ROM BIT LINE PRECHARGE
I23
BL7
BL6
BL5
BL4
BL3
BL2
BL1
BL0
romwdr
ROM WORD LINE DRIVER
I72
EVAL
A7
A8
A9
WDR0
WDR1
WDR2
WDR3
WDR4
WDR5
WDR6
WDR7
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AD<6>
AD<7>

FIG 6.00.L

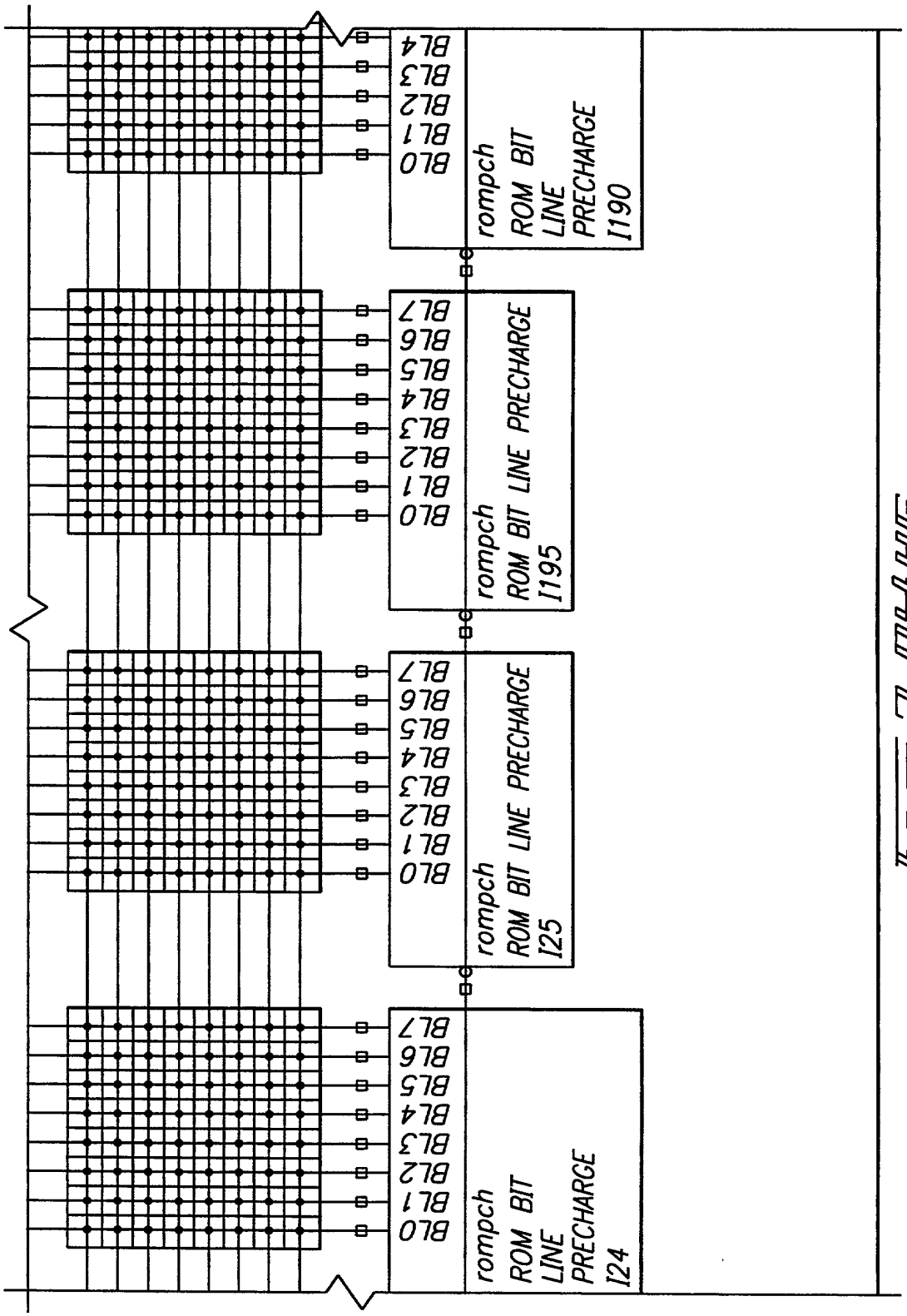
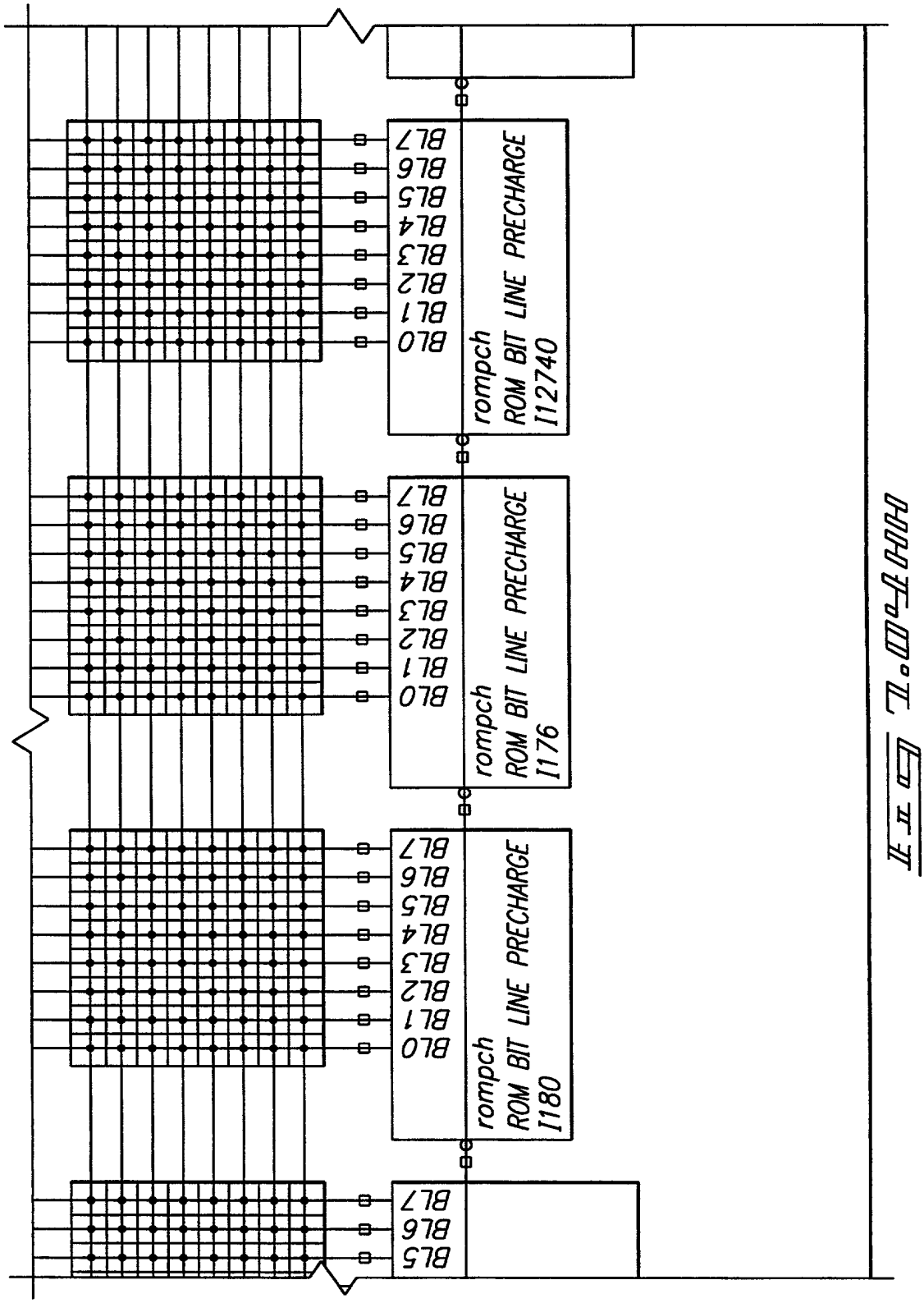


FIG. 6

WO 97/23879 PCT/US96/20950



US 6,954,395 B2 Oct. 11, 2005

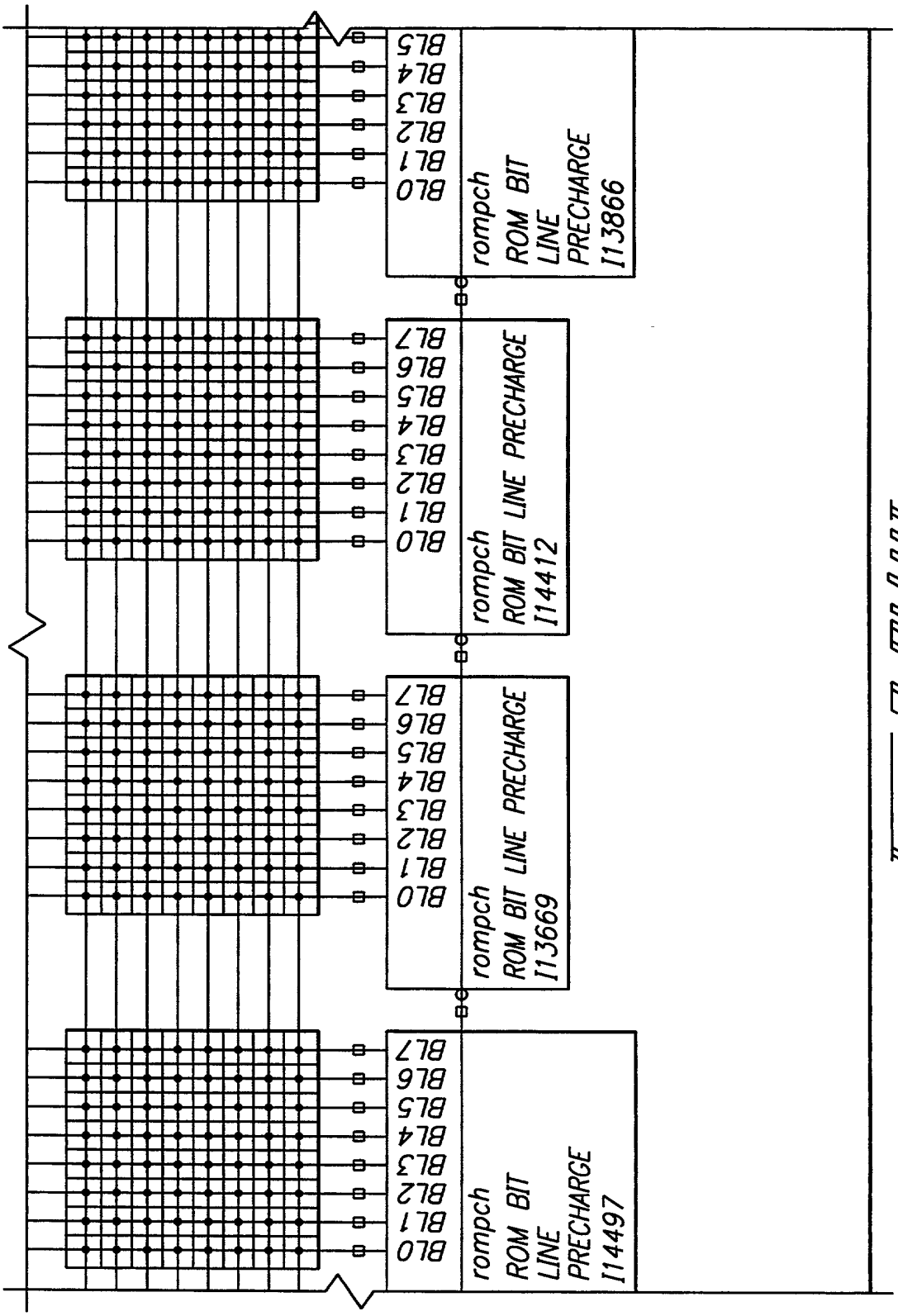


FIG. 6

09/24/2004, EAST Version: 1.4.1

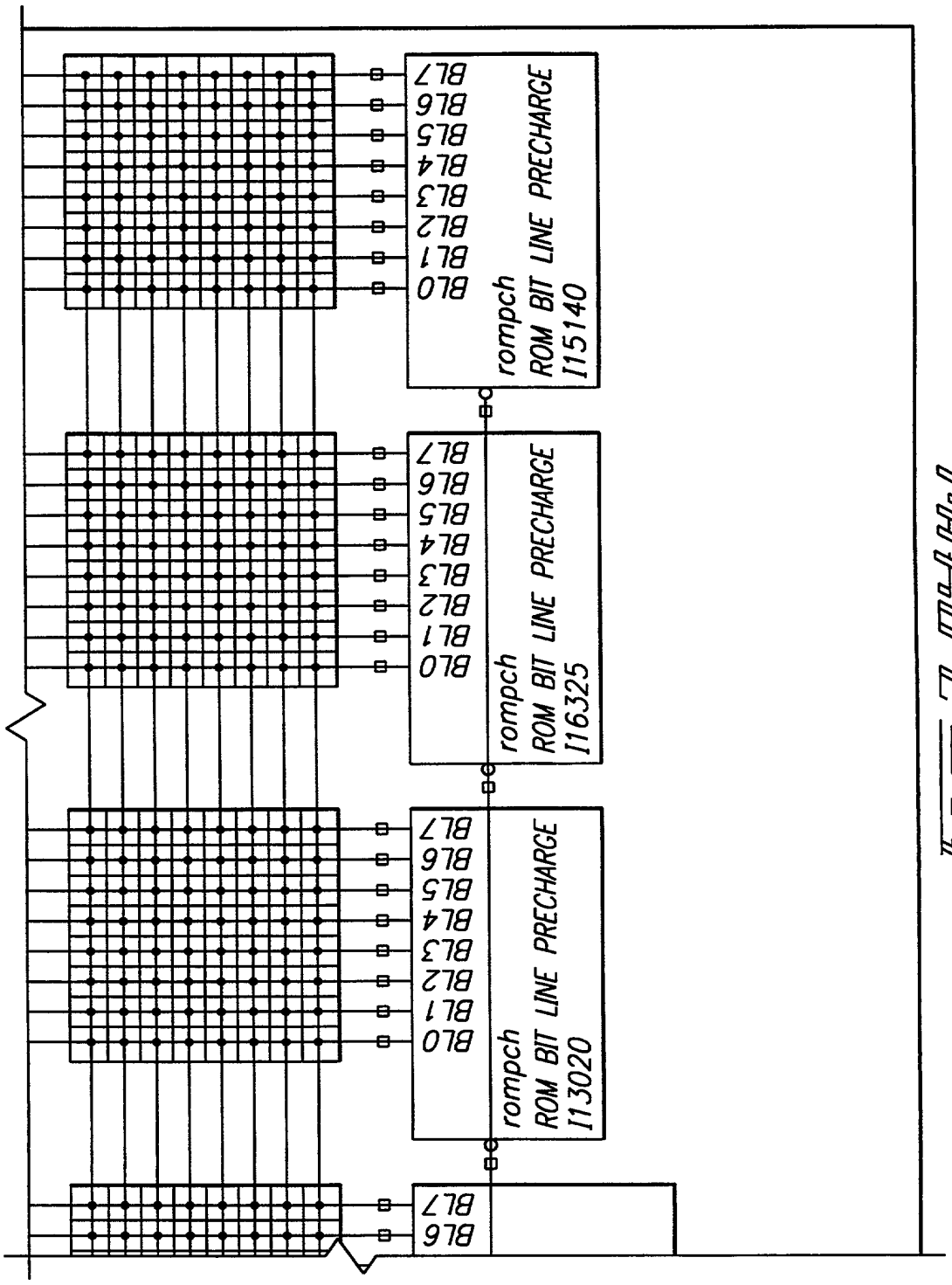


FIG. 11

US 6,950,365 B2

T07790 E9022860

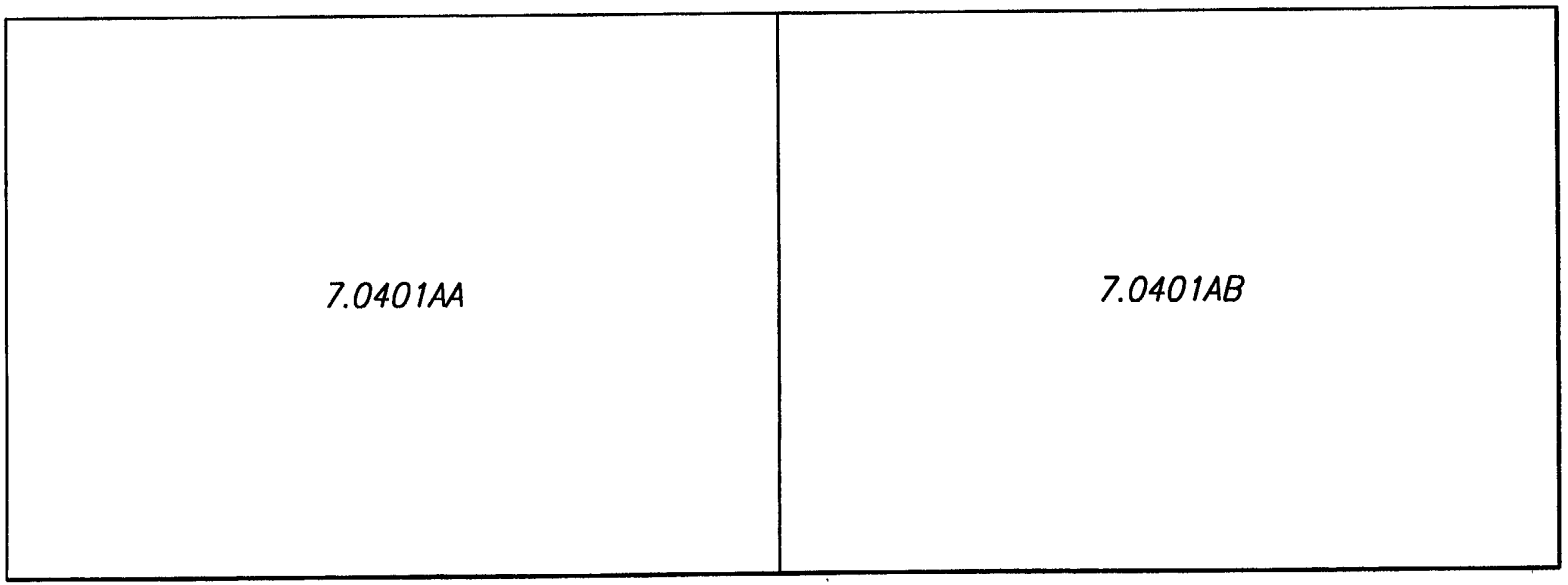
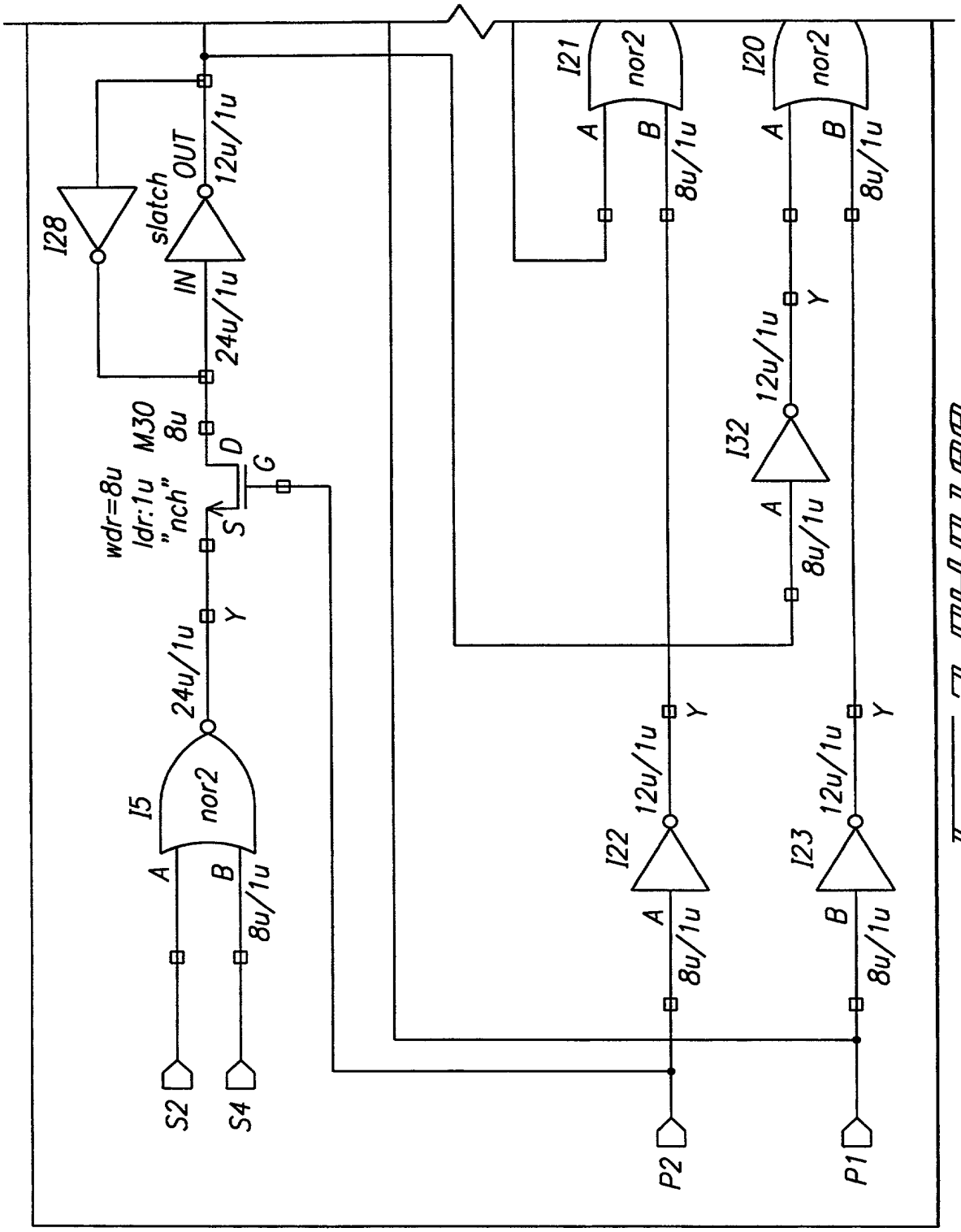
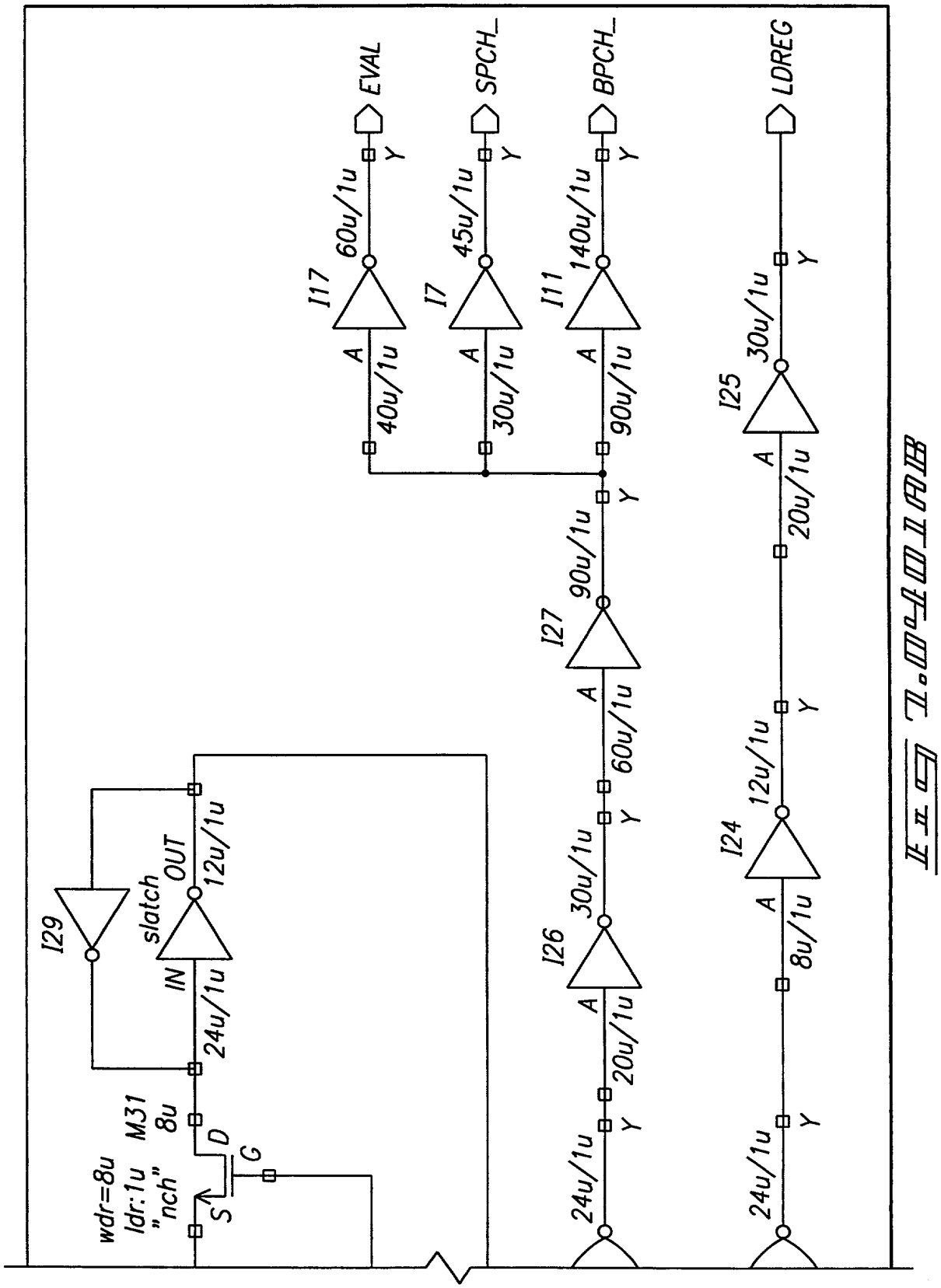


Fig 7.0401


I28
slatch
OUT
IN
12u/1u
24u/1u
M30
8u
wdr=8u
ldr:1u
"nch"
D
G
S
I5
nor2
A
B
24u/1u
8u/1u
Y
S2
S4
I21
nor2
I20
nor2
I32
12u/1u
I22
12u/1u
I23
12u/1u
P2
P1

Фиг.11


I29
slatch
OUT
12u/1u
IN
24u/1u
M31
8u
wdr=8u
ldr:1u
"nch"
D
G
S
I17
60u/1u
EVAL
A
Y
40u/1u
I7
45u/1u
SPCH_
30u/1u
I11
140u/1u
BPCH_
90u/1u
I27
90u/1u
60u/1u
I26
30u/1u
20u/1u
24u/1u
I25
30u/1u
LDREG
20u/1u
I24
12u/1u
8u/1u

Фиг. 11

TOTTEN 2023868

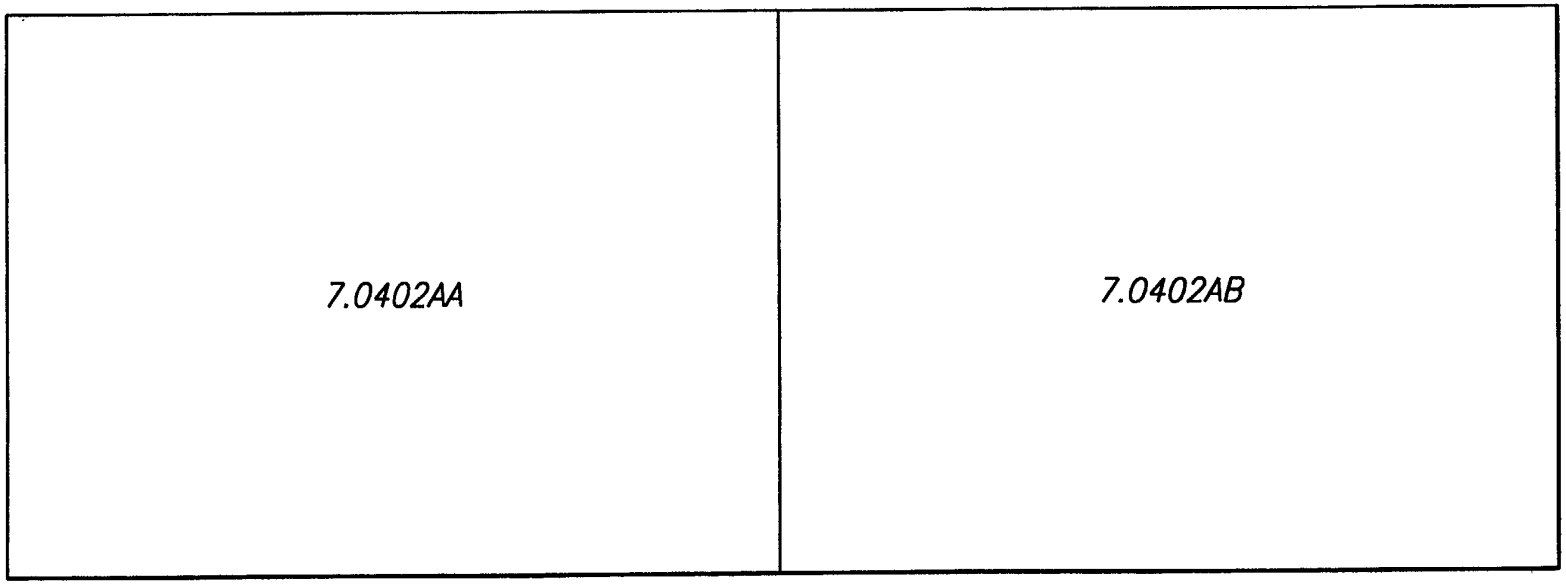


Fig 7.0402

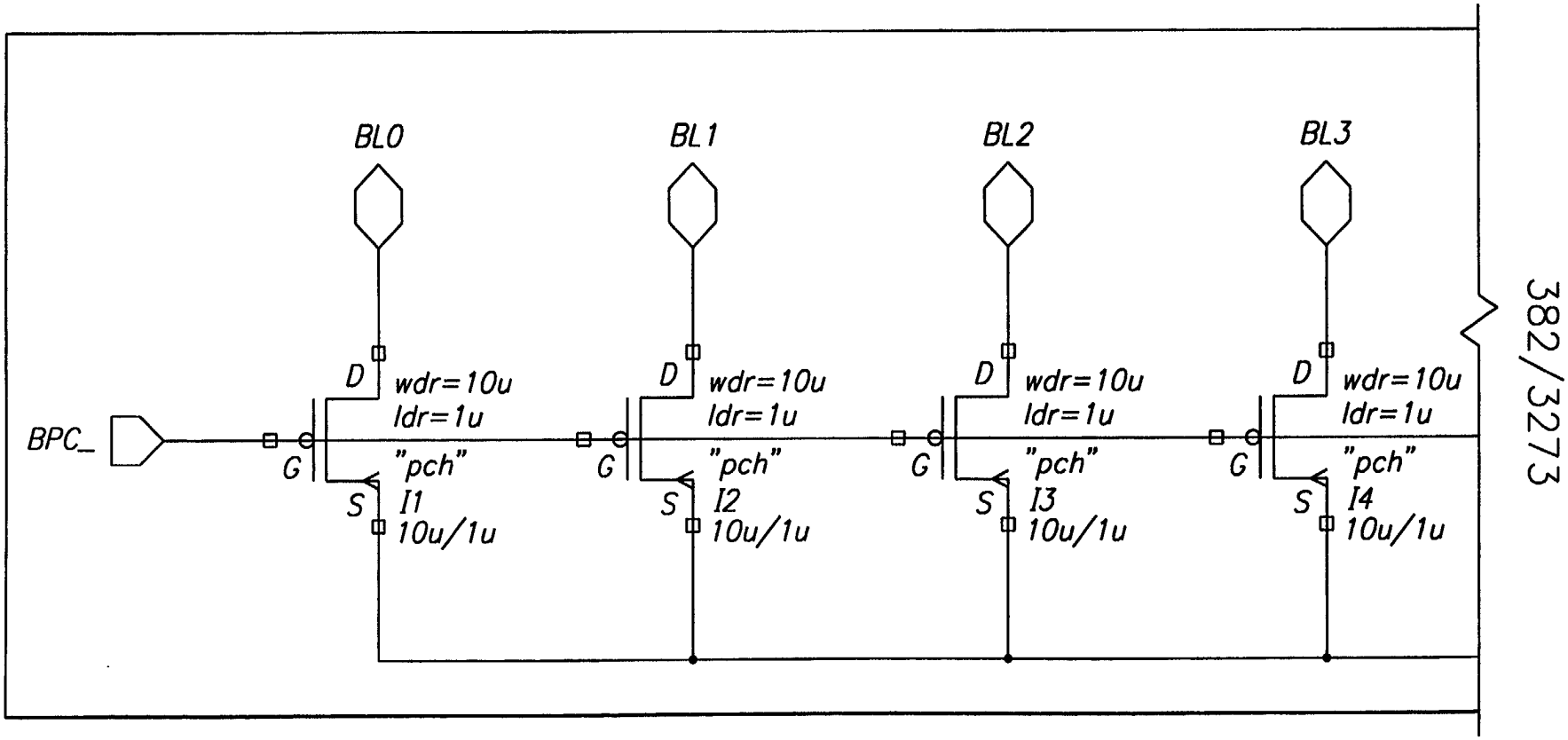
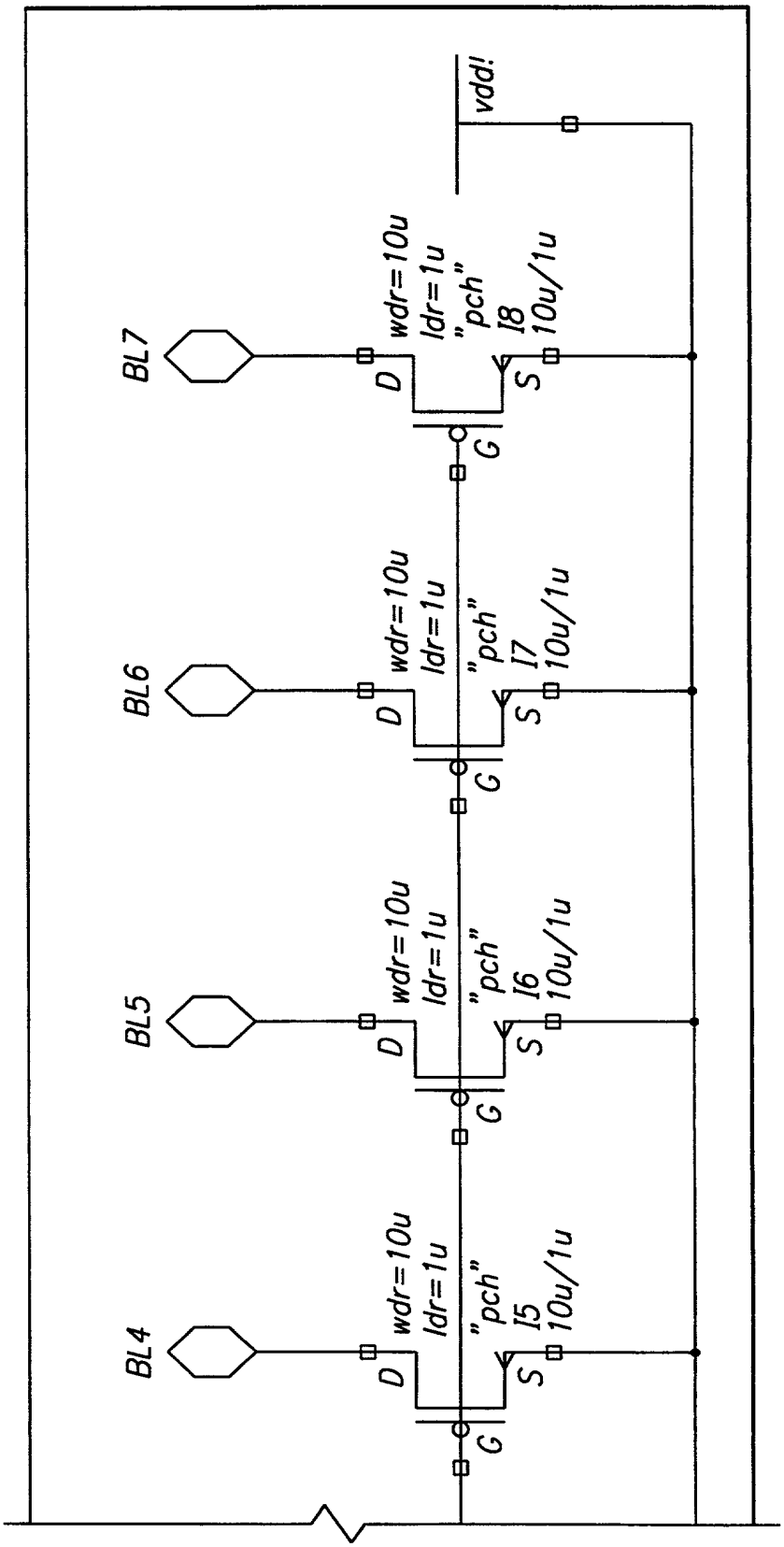


Fig 1.04402AA



Фиг. 6

10151901 - 20022020

T0T190"E9022860

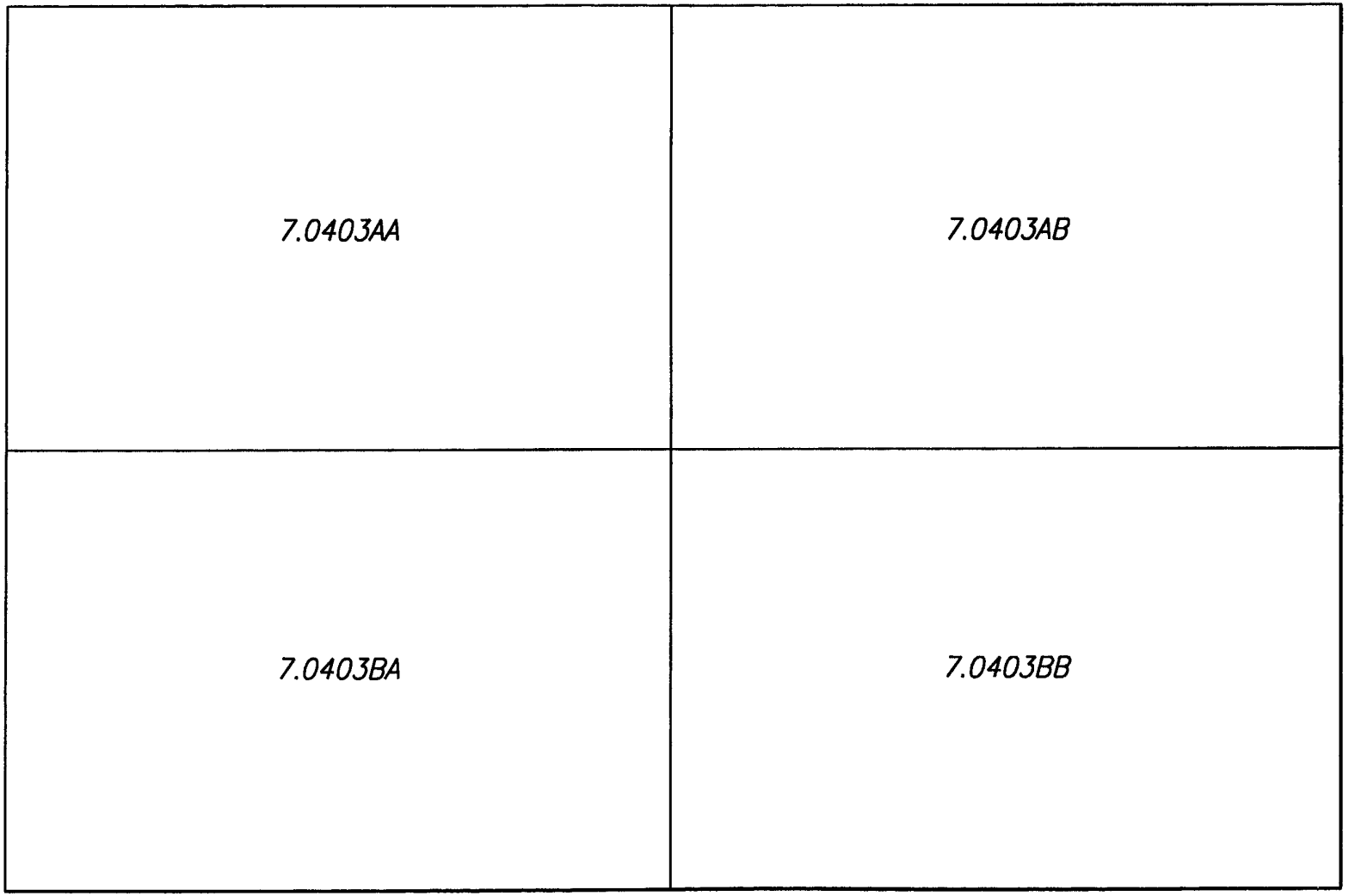


Fig 7.0403

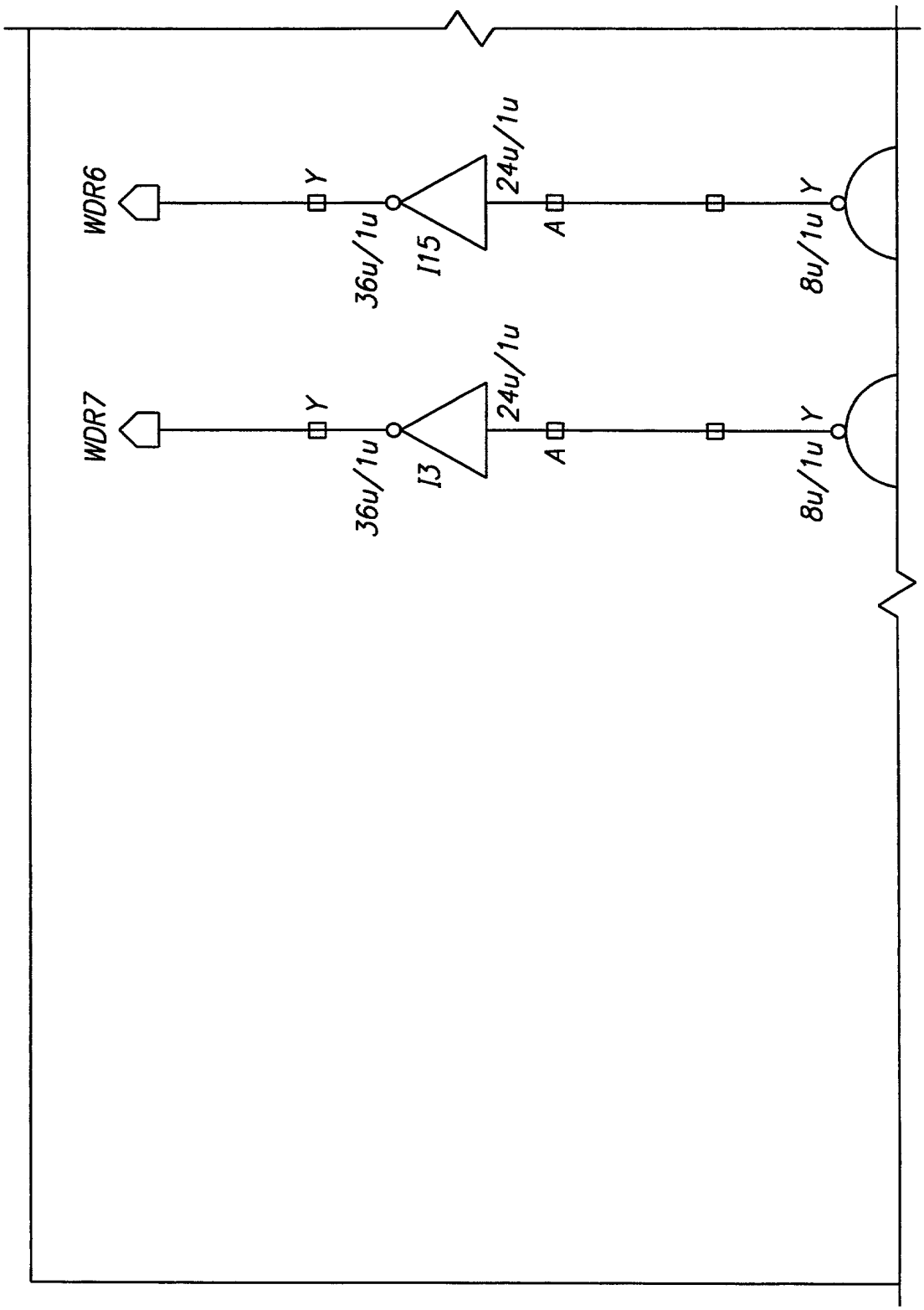
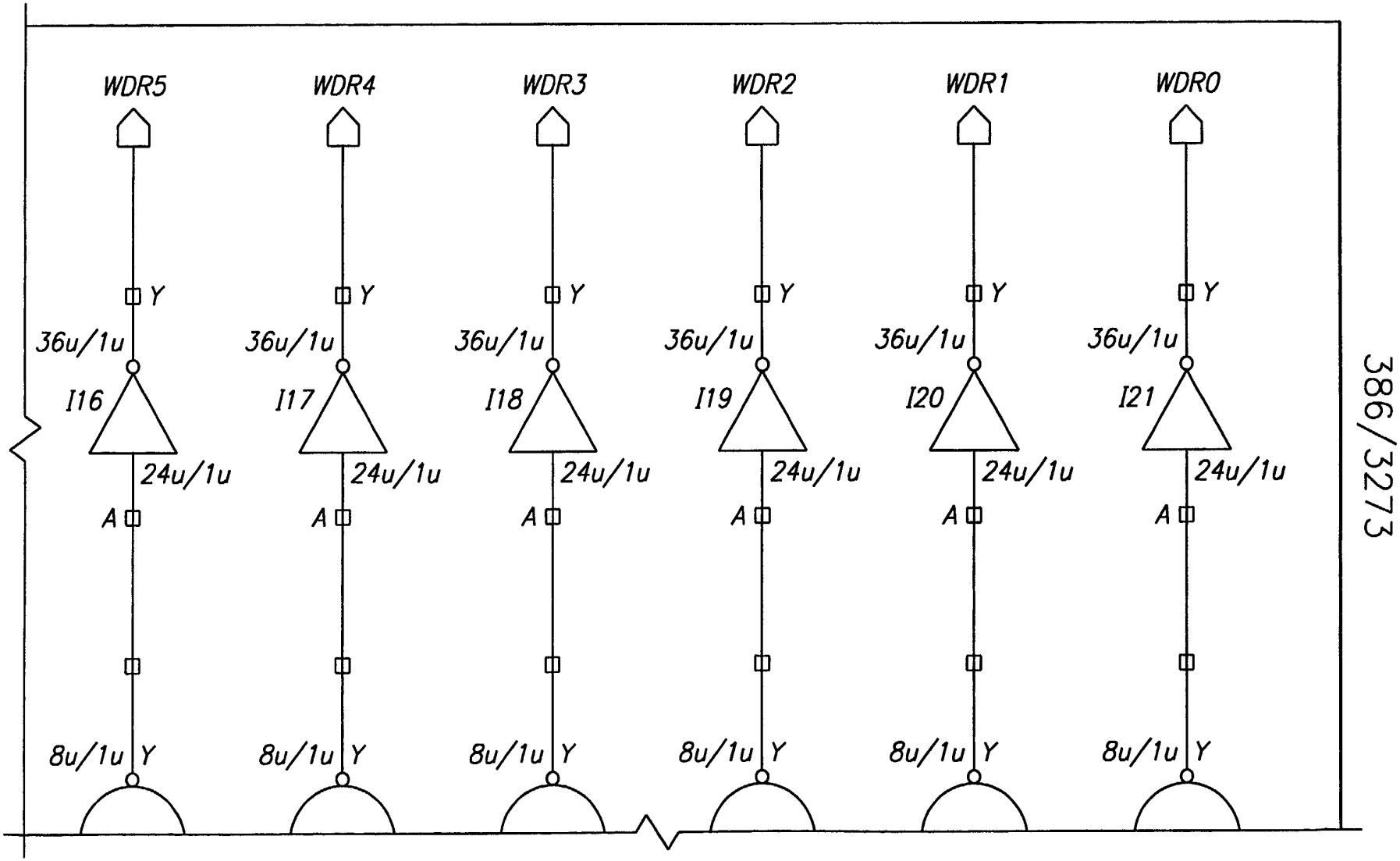


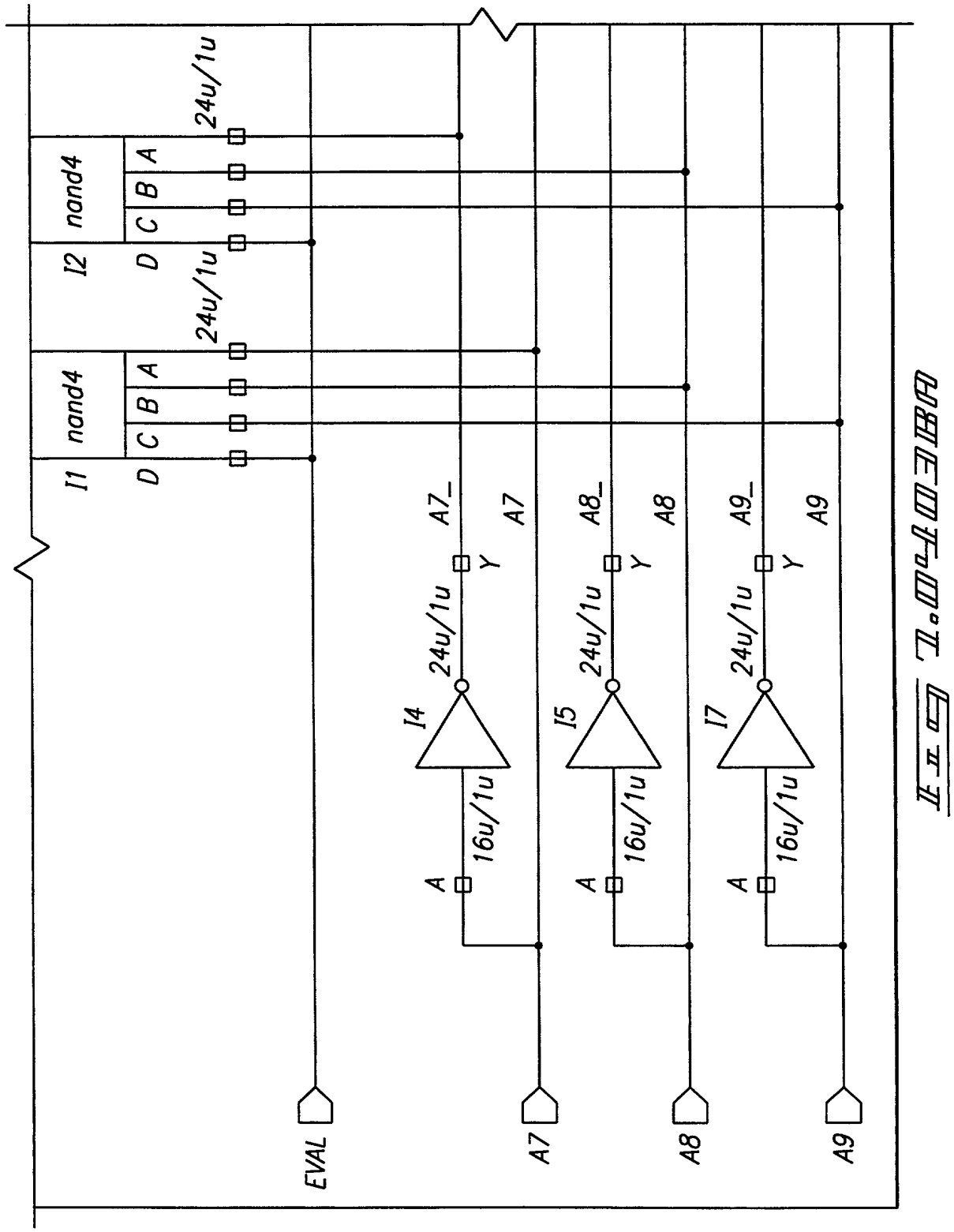
FIG 10

1015450-20220620

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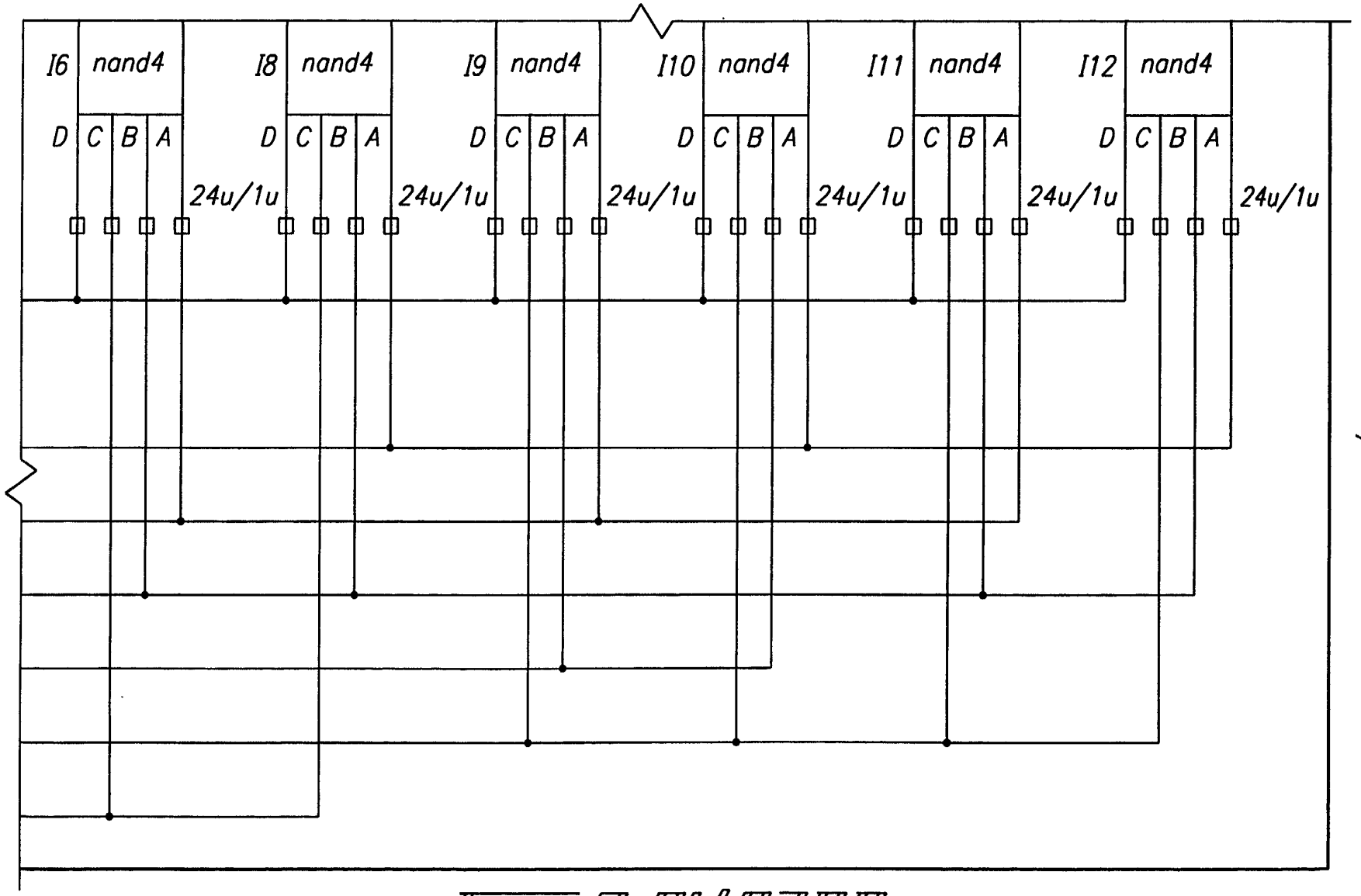


Фиг 1.0ч40ЗАВ


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A
B
C
D
24u/1u
I2
nand4
A
B
C
D
24u/1u
I4
24u/1u
A7_
Y
A7
A
16u/1u
I5
24u/1u
A8_
Y
A8
A
16u/1u
I7
24u/1u
A9_
Y
A9
A
16u/1u
EVAL
A7
A8
A9

Фиг.11

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Фиг 1.04ПОЗВВ

388/3273

Replacement Sheet

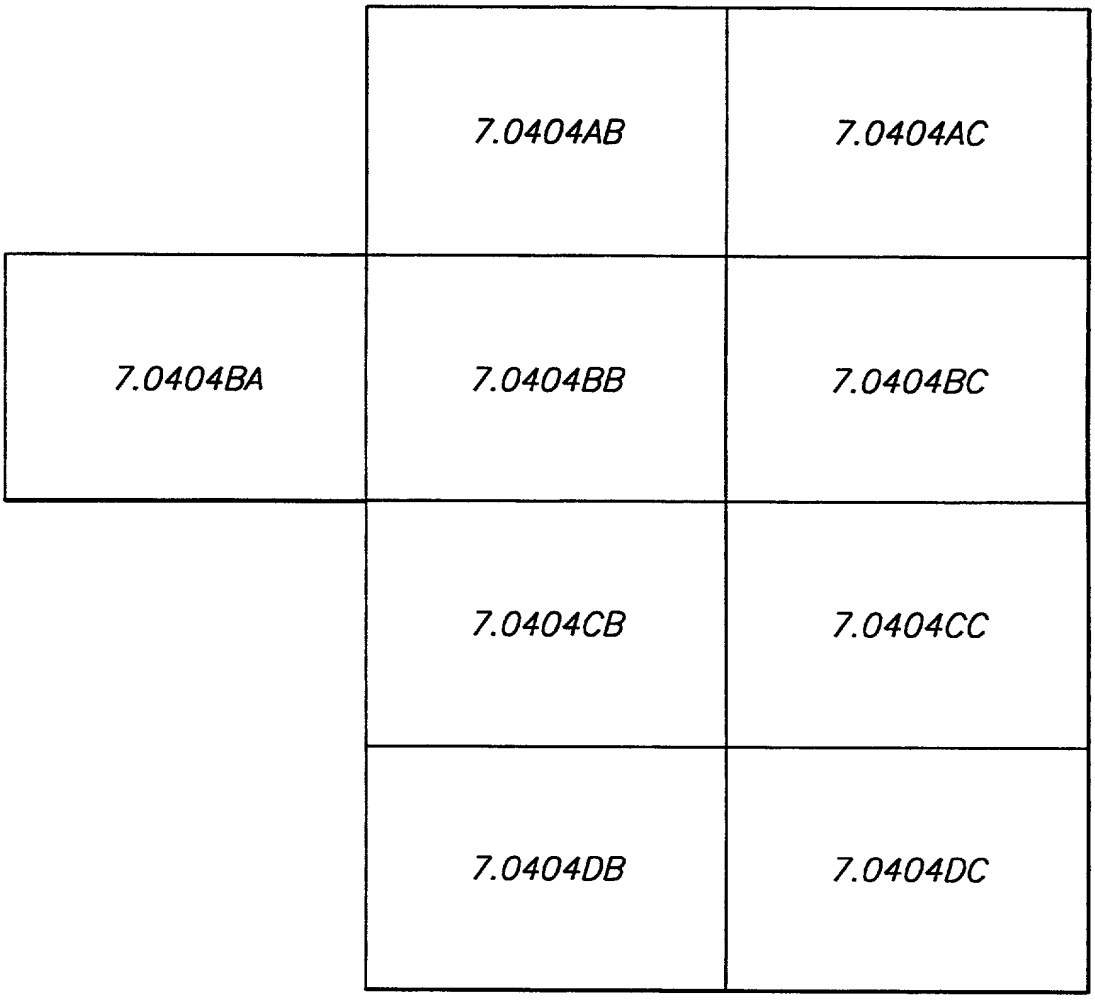
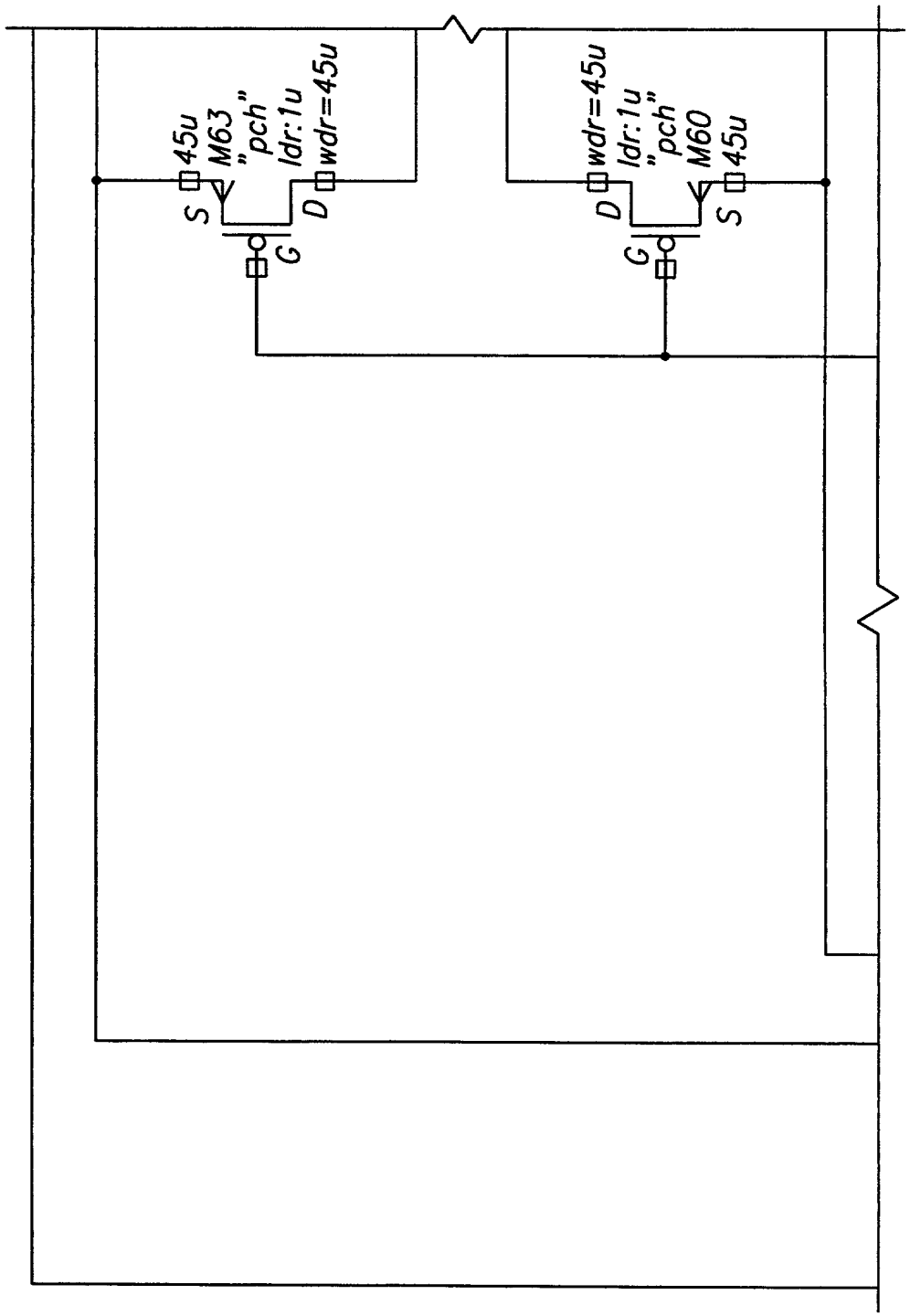


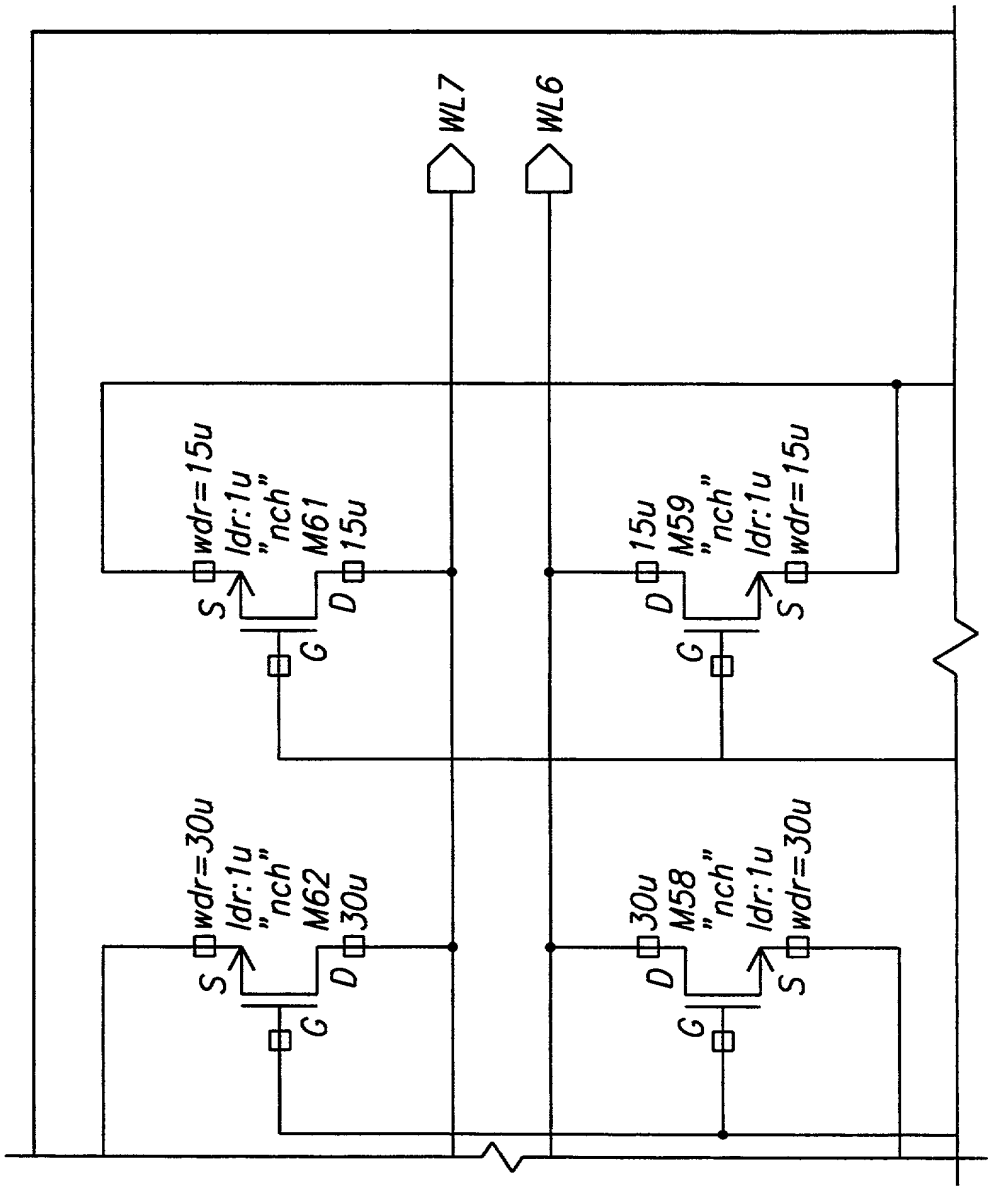
Fig 7.0404



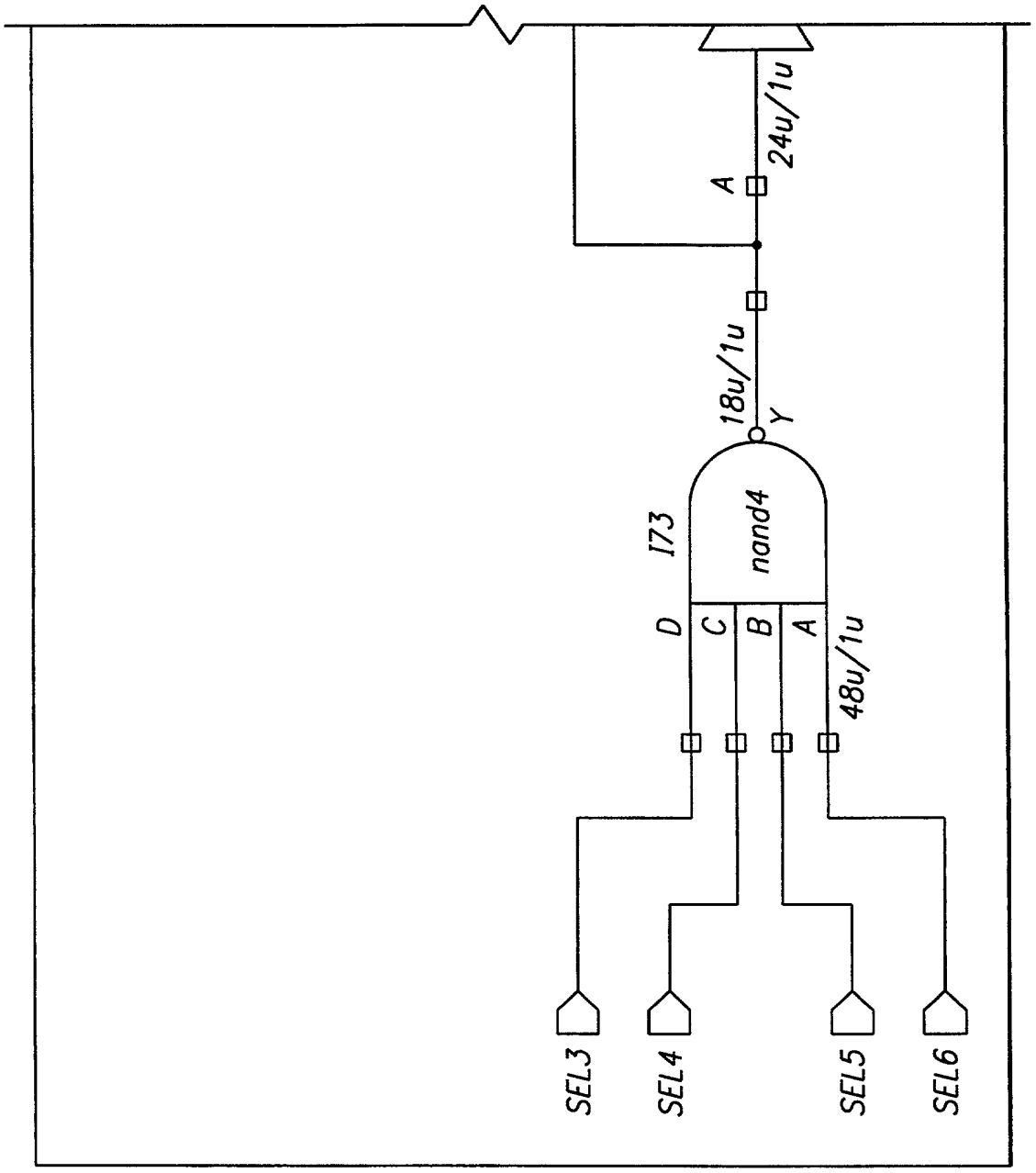
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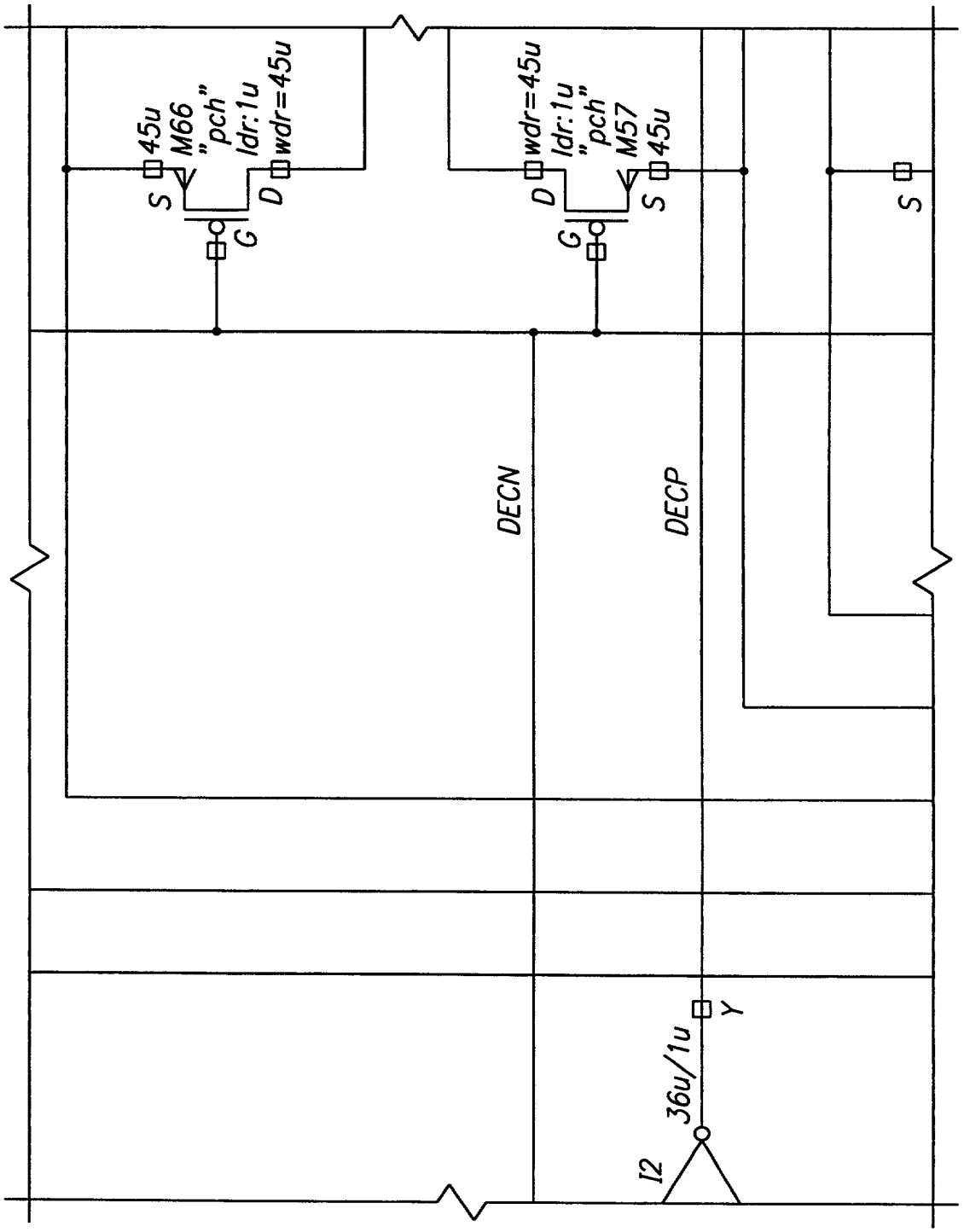
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Фиг. 7

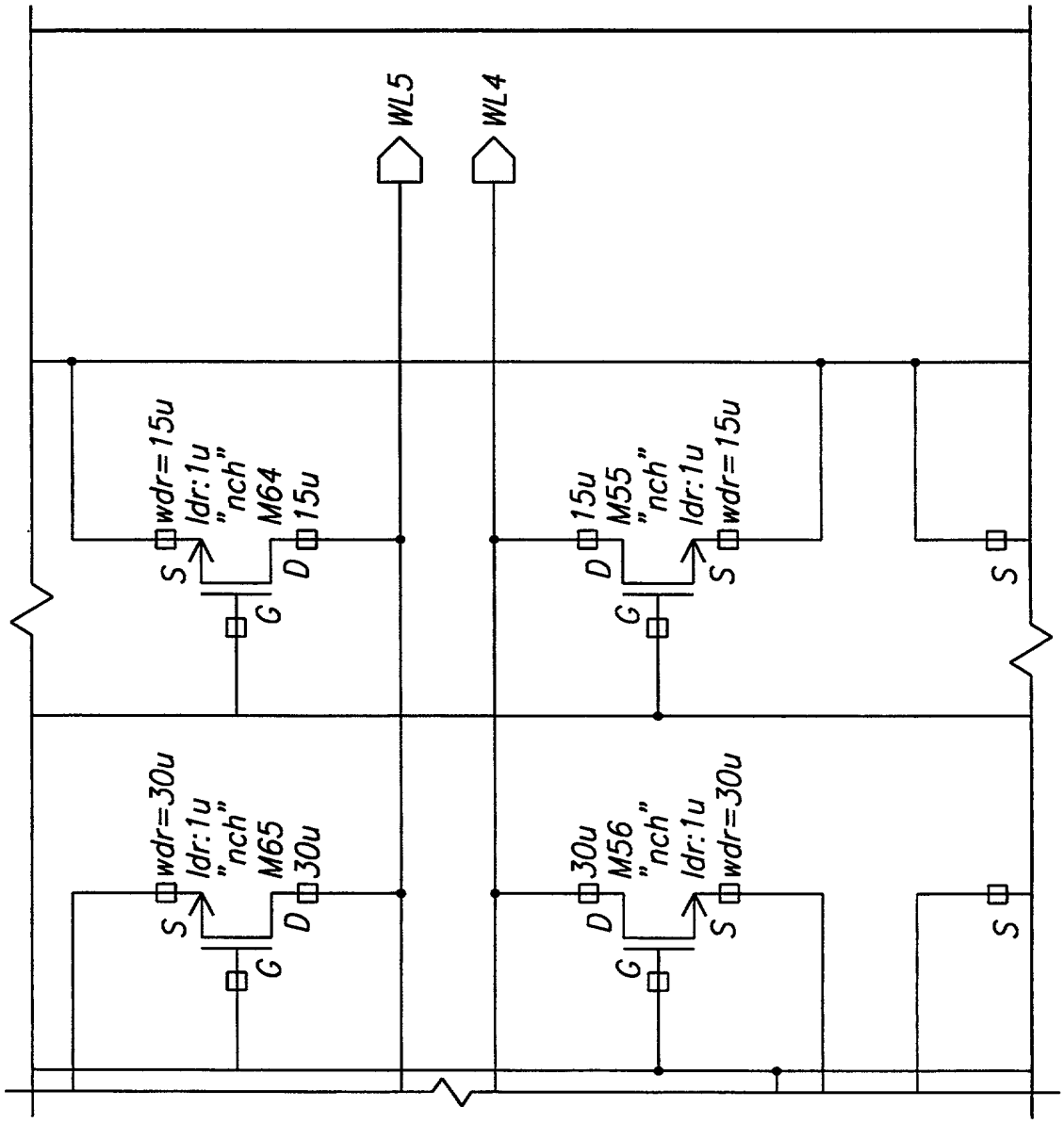


Фиг. 1



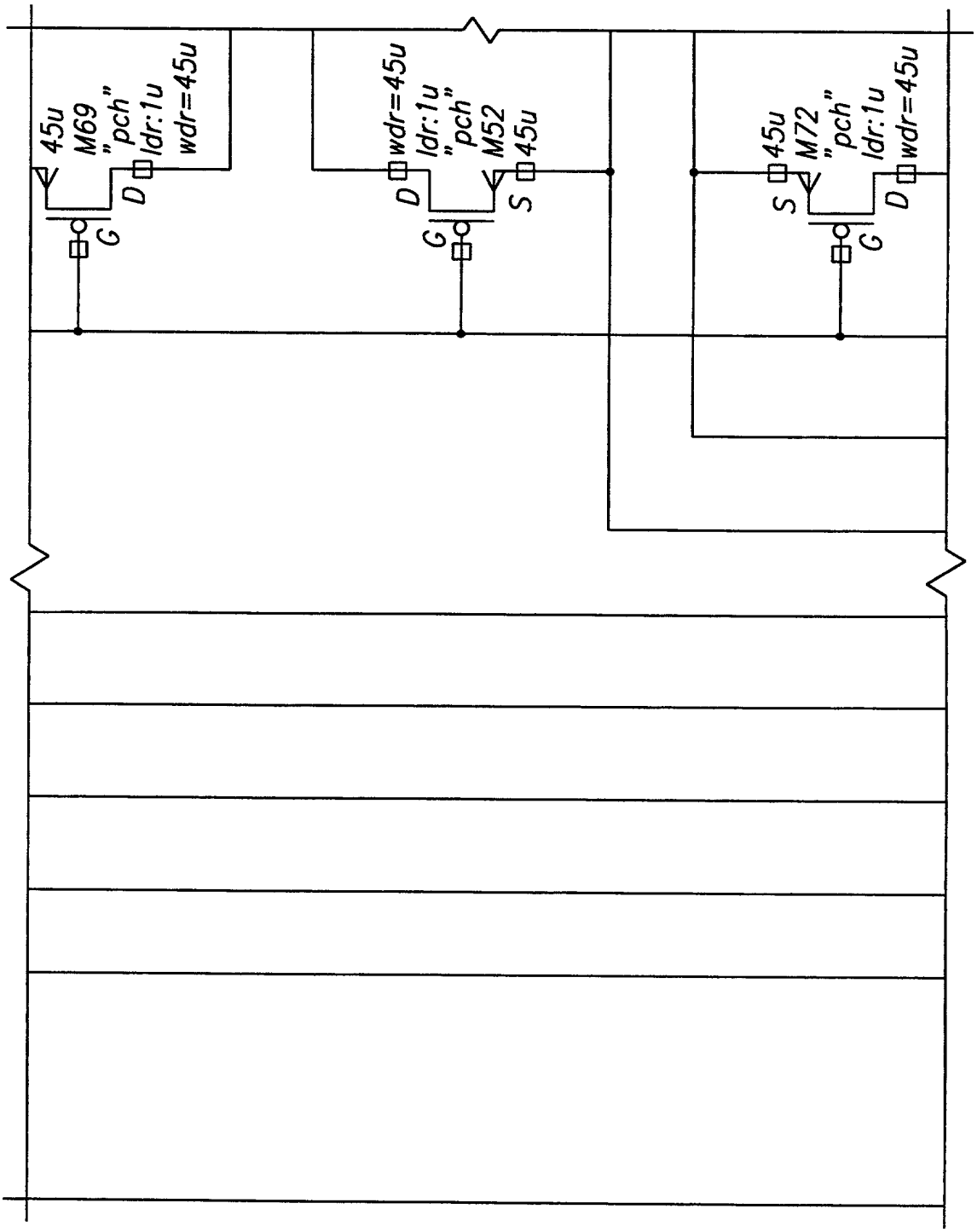
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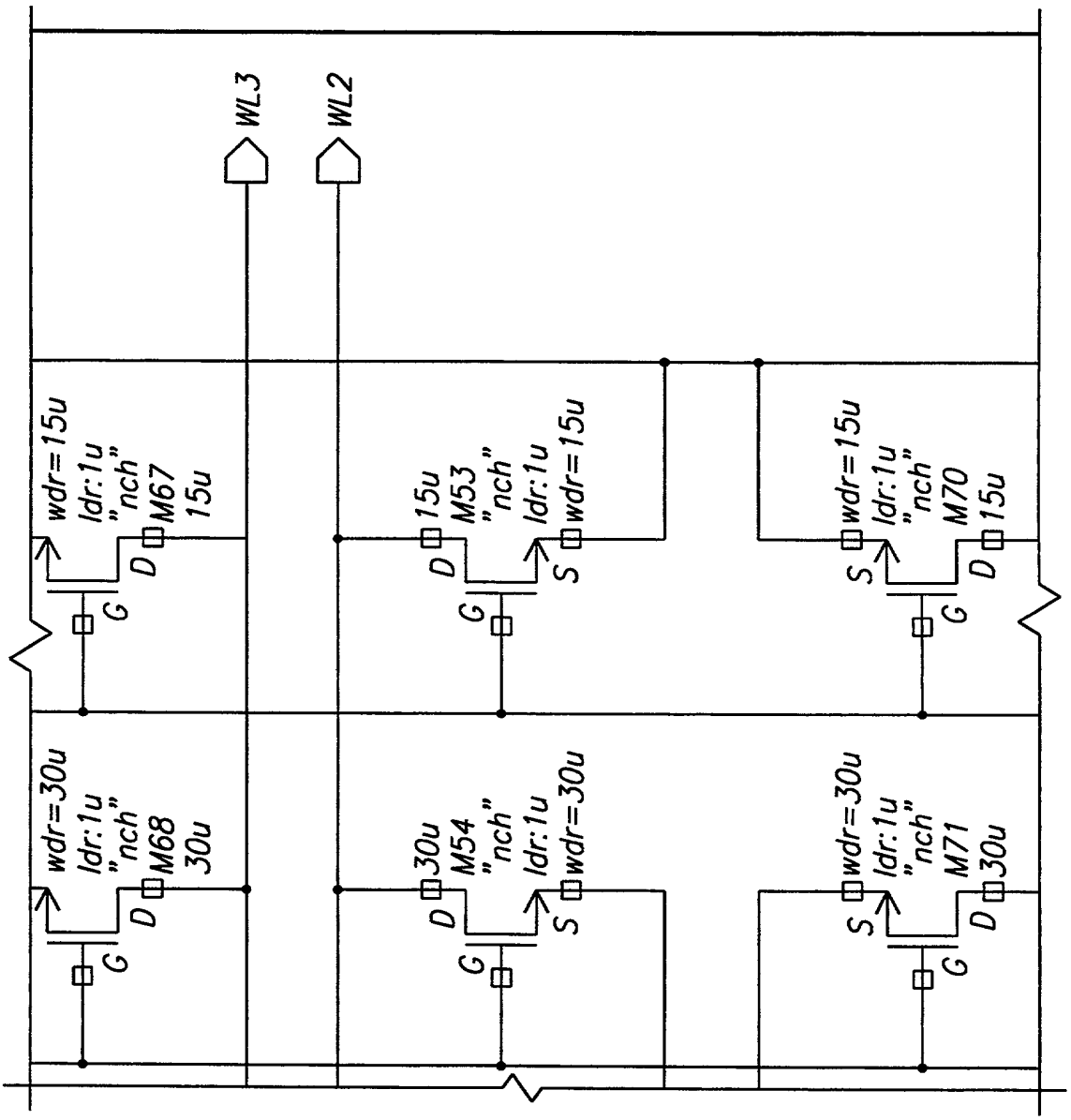
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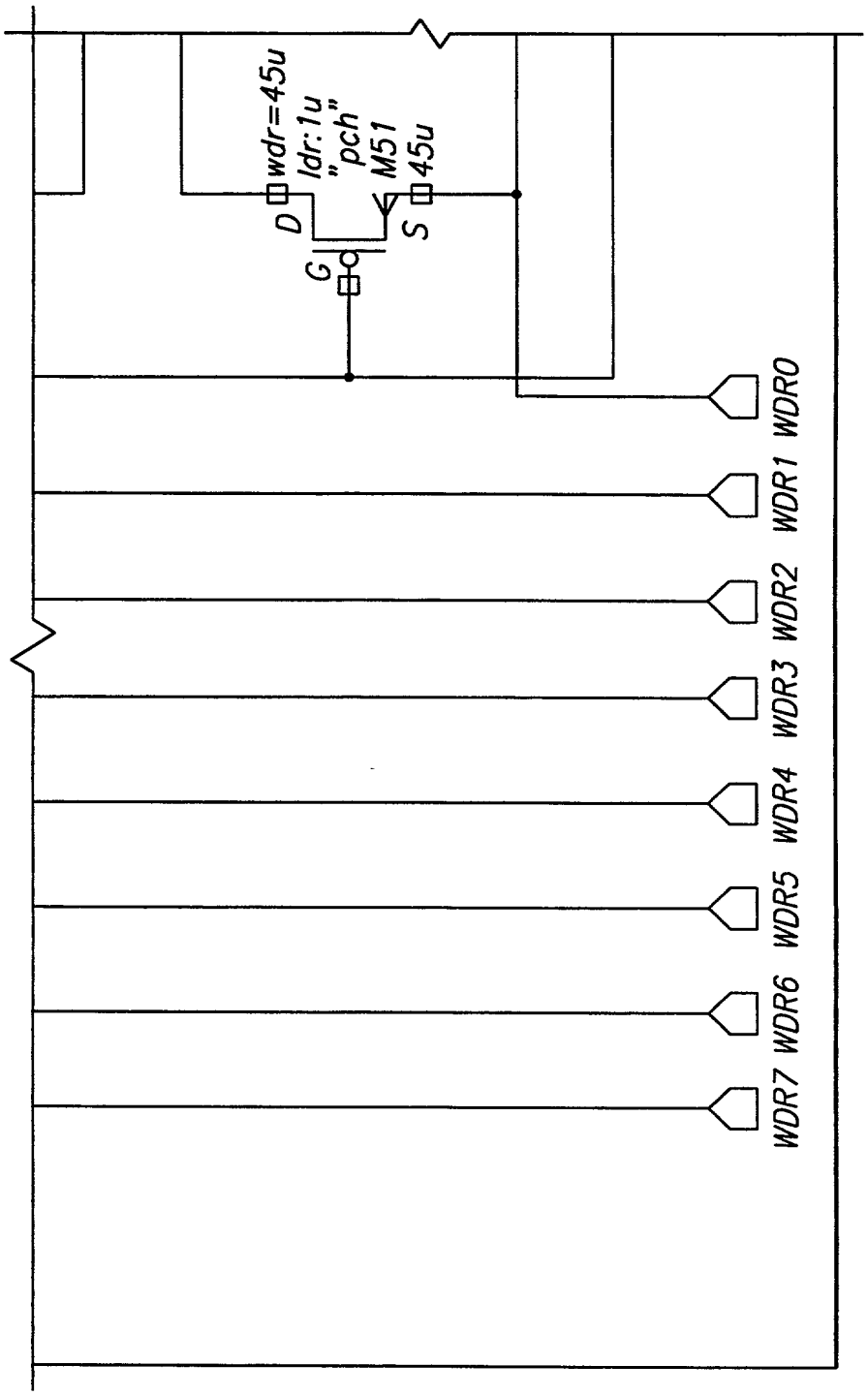


Фиг. 2

Electronic Patent Publication

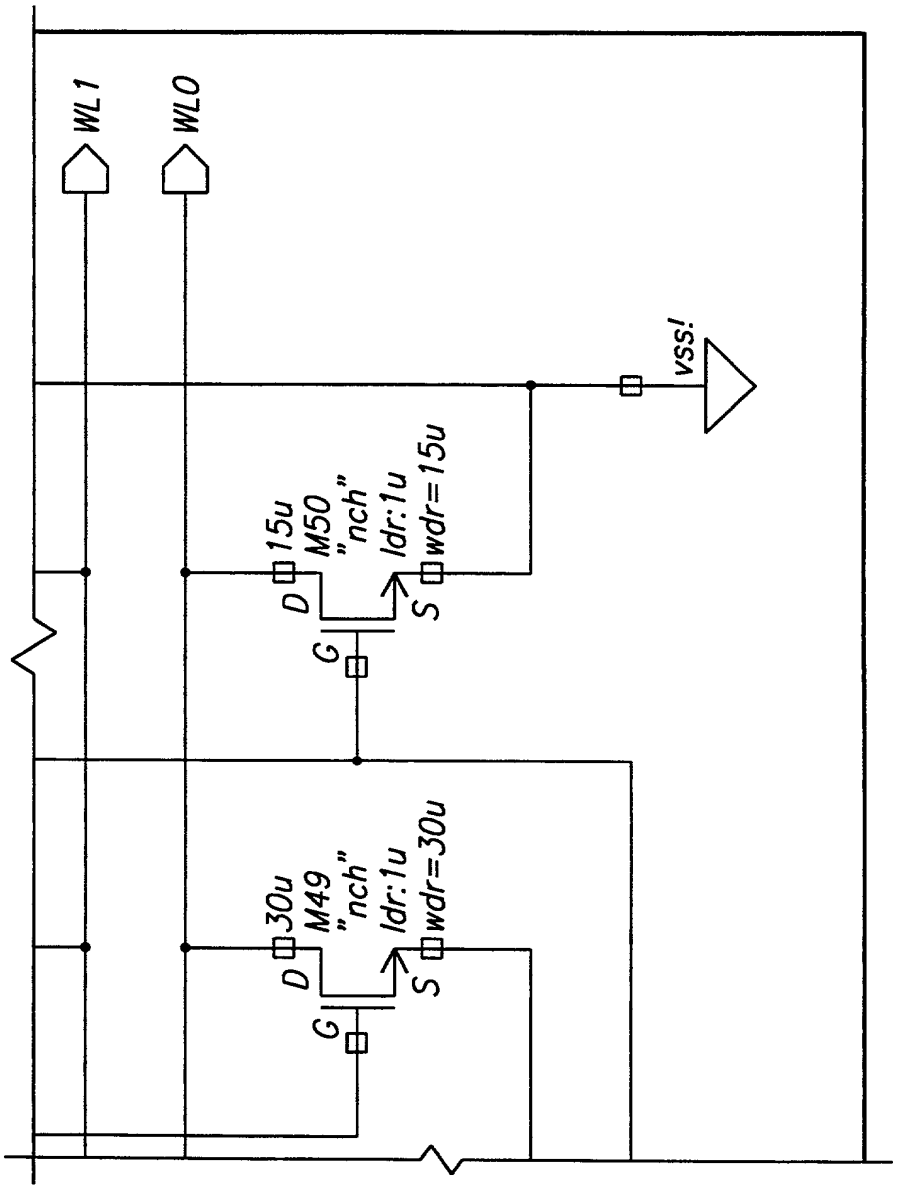

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M54
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M71
30u

Фиг.5


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ldr:1u
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45u
D
G
S
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WDR1
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WDR5
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Фиг. 4

EP1 569 240A2



Фиг. 1.04

399/3273

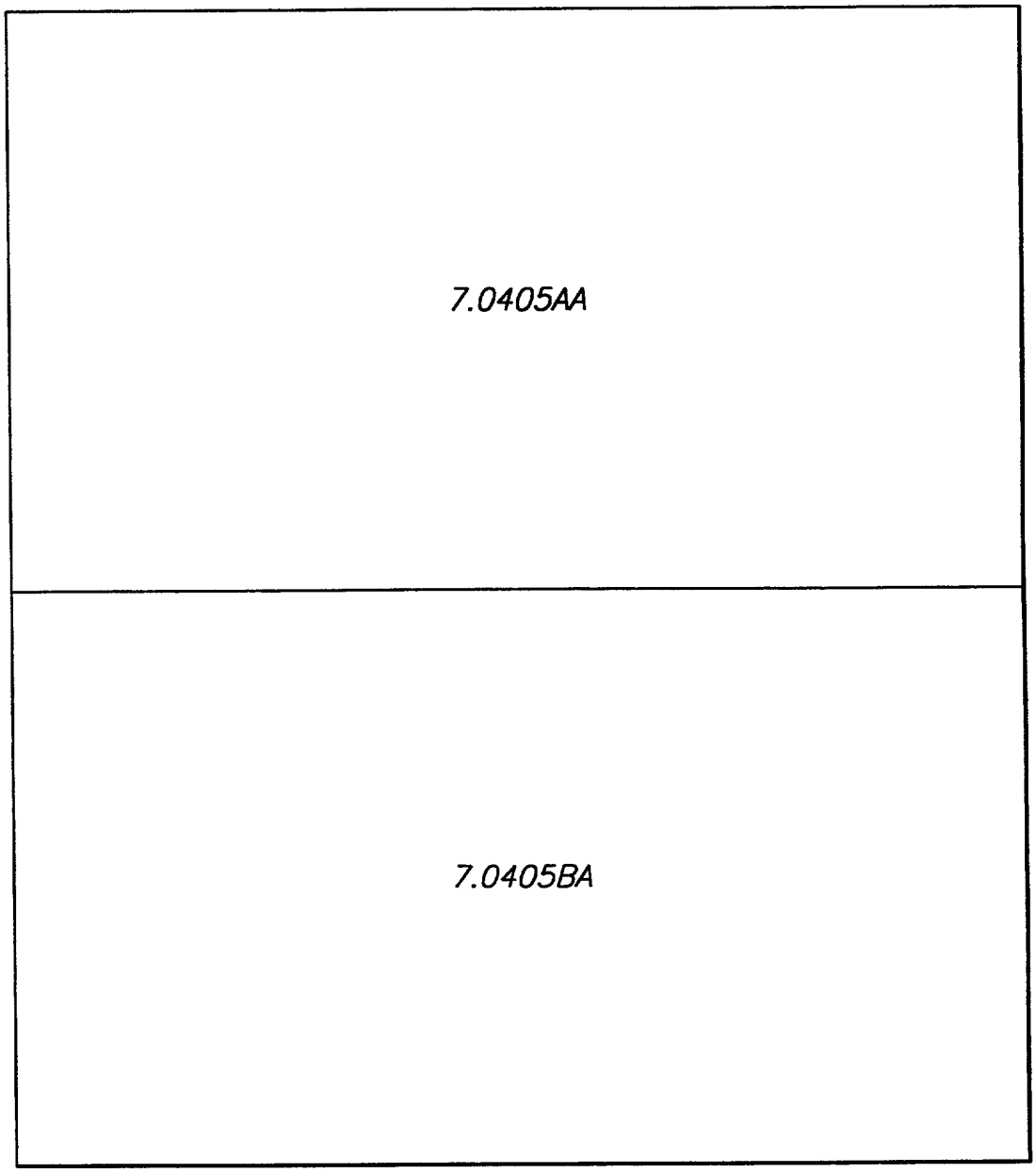
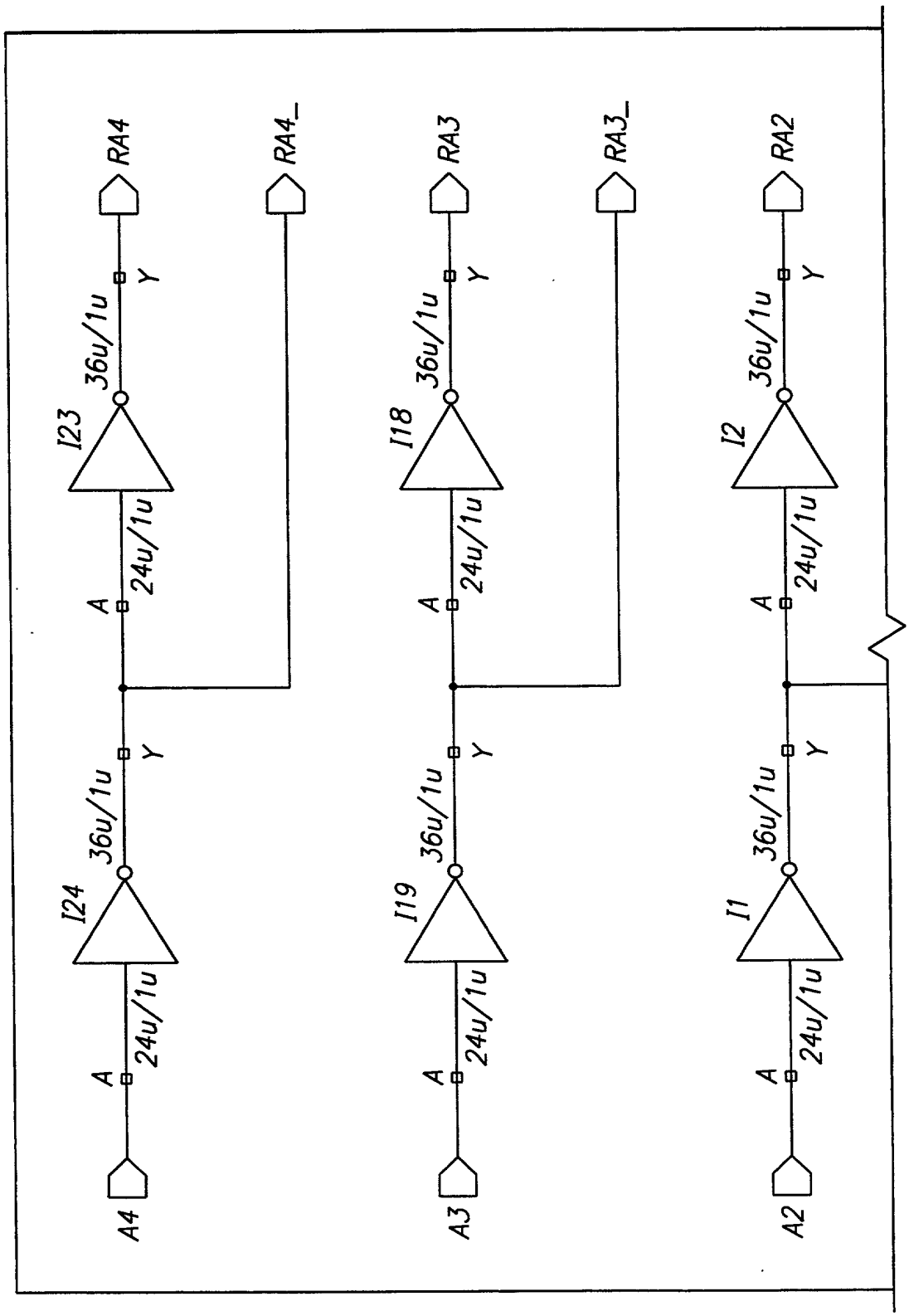


Fig 7.0405

Document ID: 0514601

TOTTO 2002020



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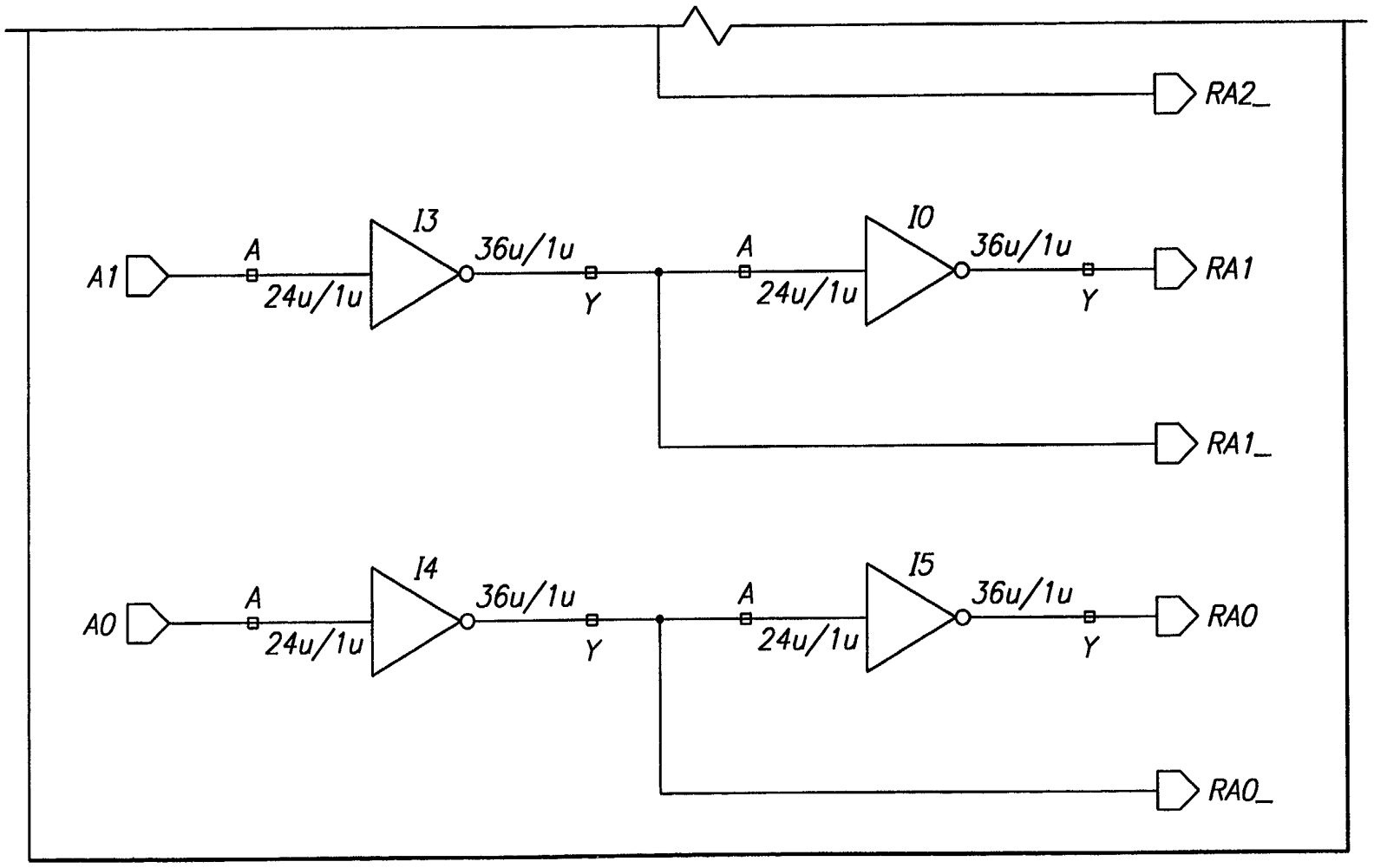

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A0
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I4
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24u/1u
I5
36u/1u
Y
RA0
RA0_

Fig 1.04058A

7.0406AA	7.0406AB	7.0406AC	7.0406AD	7.0406AE	7.0406AF	7.0406AG	7.0406AH	7.0406AI	7.0406AJ	
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7.0406CA	7.0406CB	7.0406CC	7.0406CD	7.0406CE	7.0406CF	7.0406CG	7.0406CH	7.0406CI	7.0406CJ	7.0406CK

Fig 7.0406

4,951,295 - 5,951,295

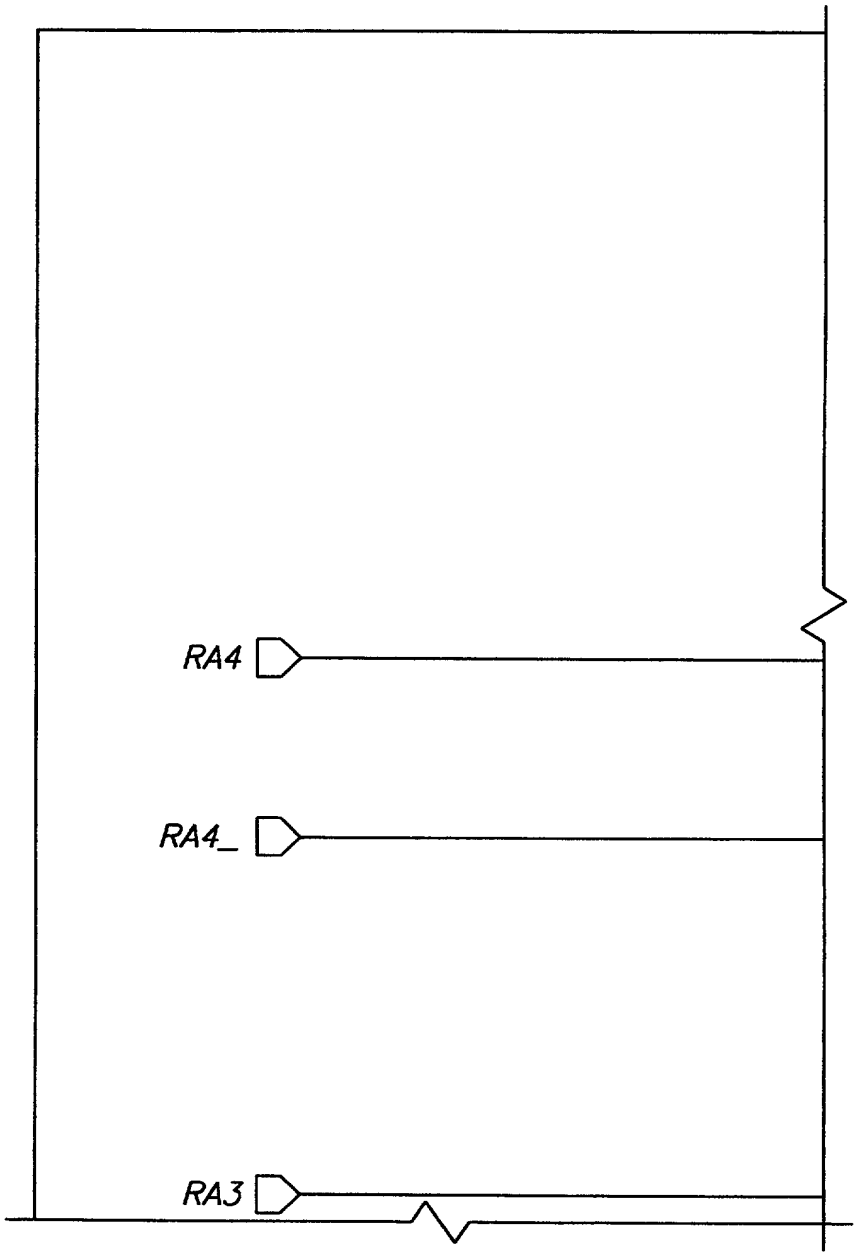


Fig 1.04106AA

09825652-05/404

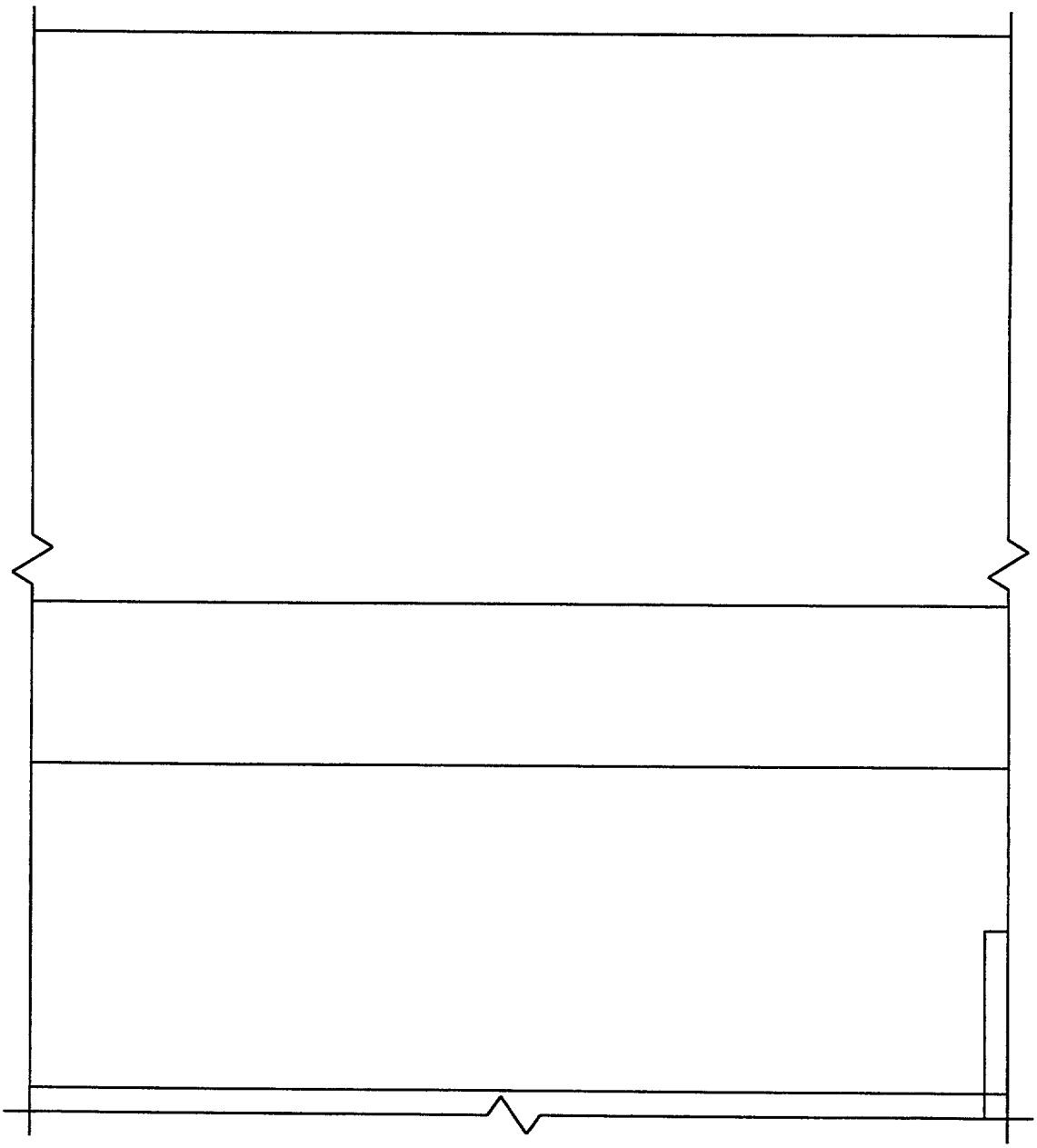


Fig 1.04406AB

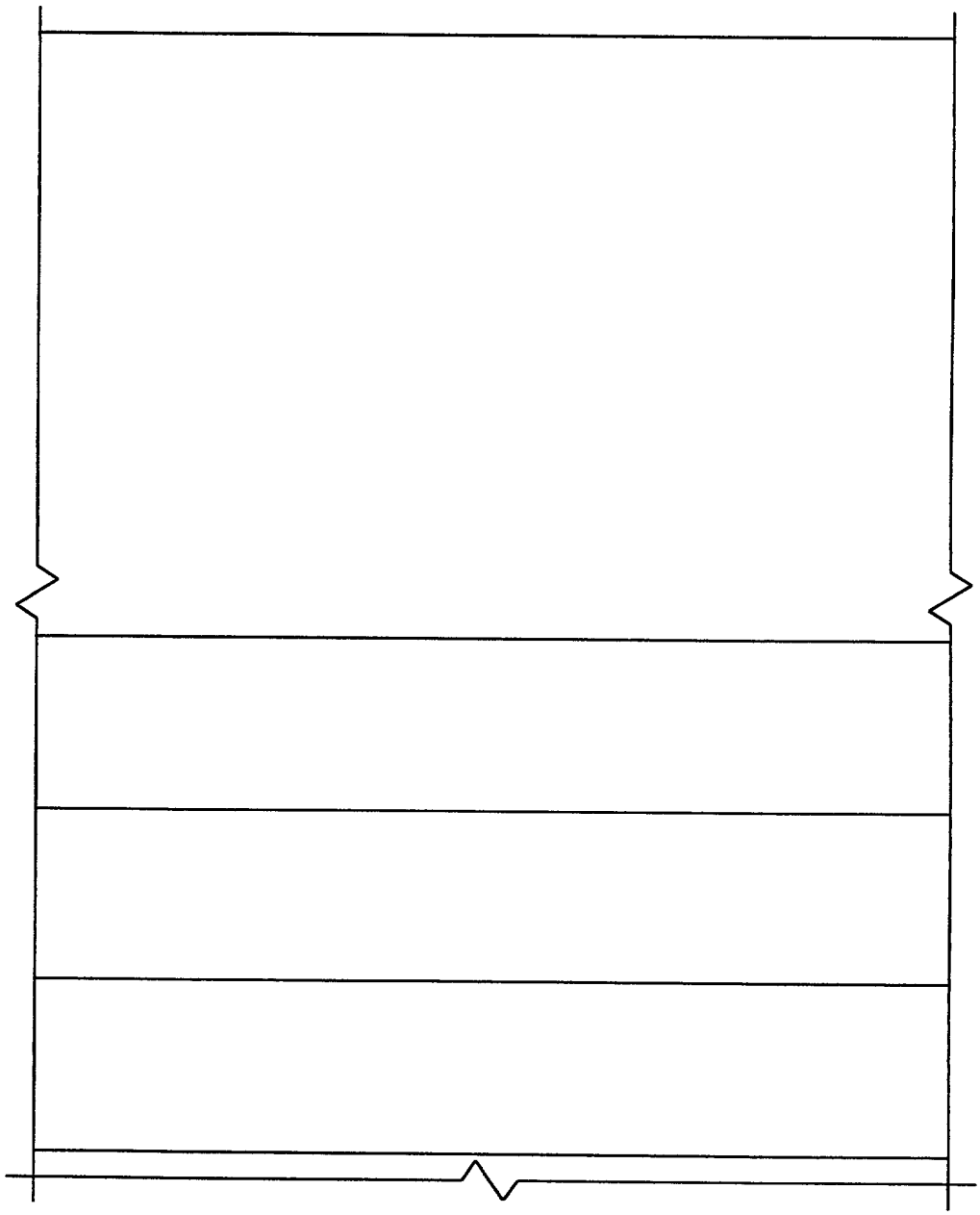


Fig 1.0406AC

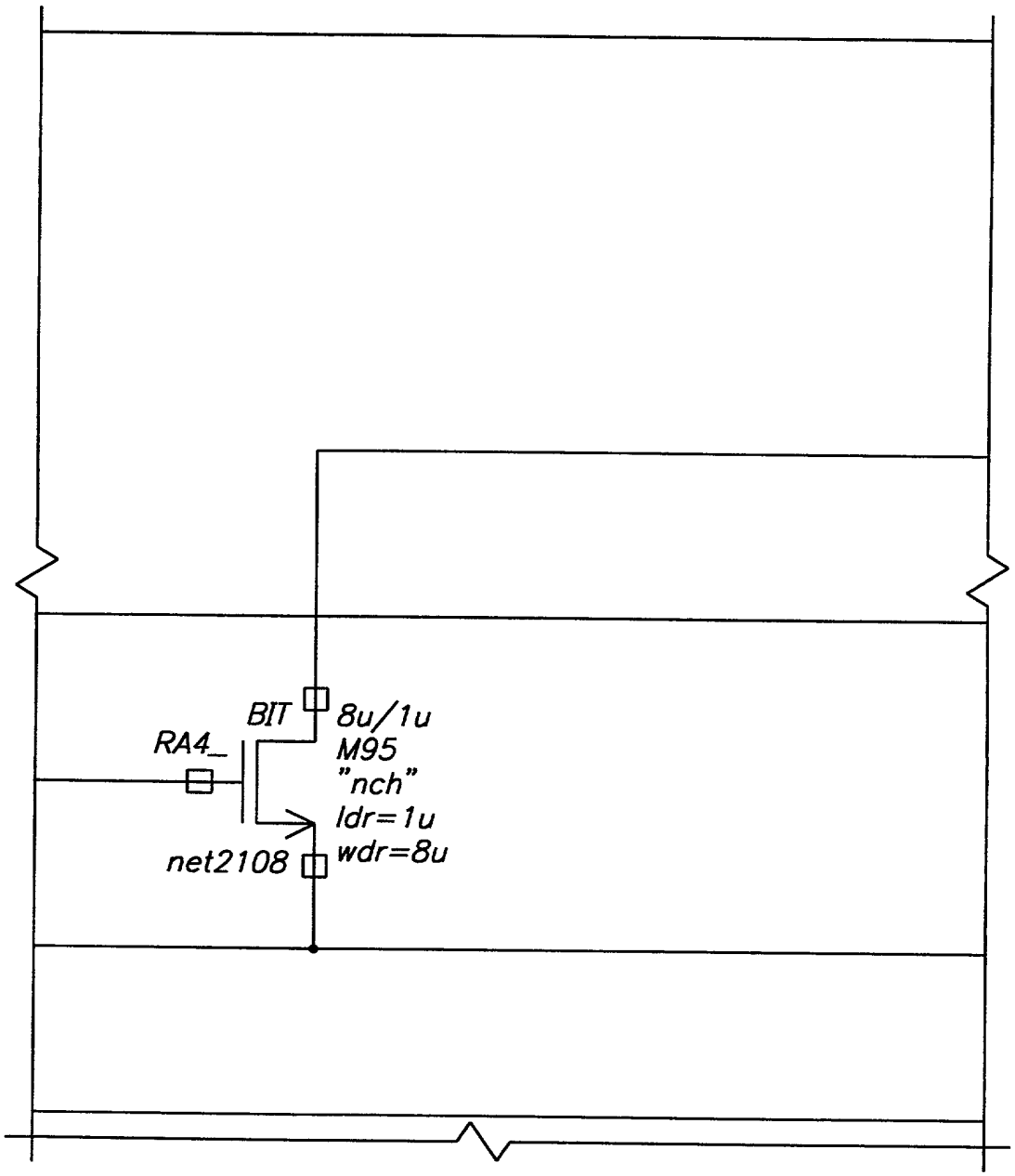


Fig 1.04GAD

US6212094 - 20010403

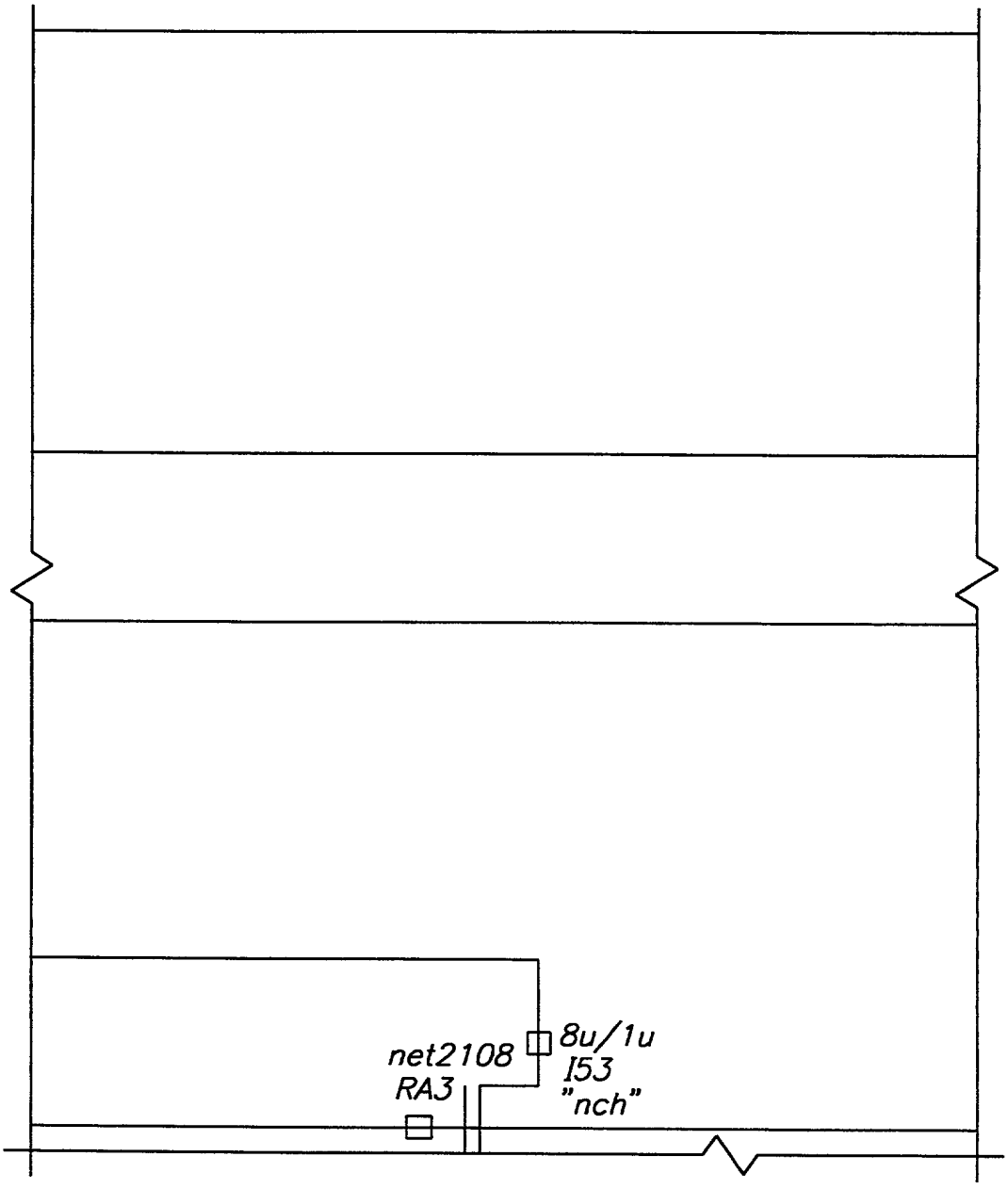
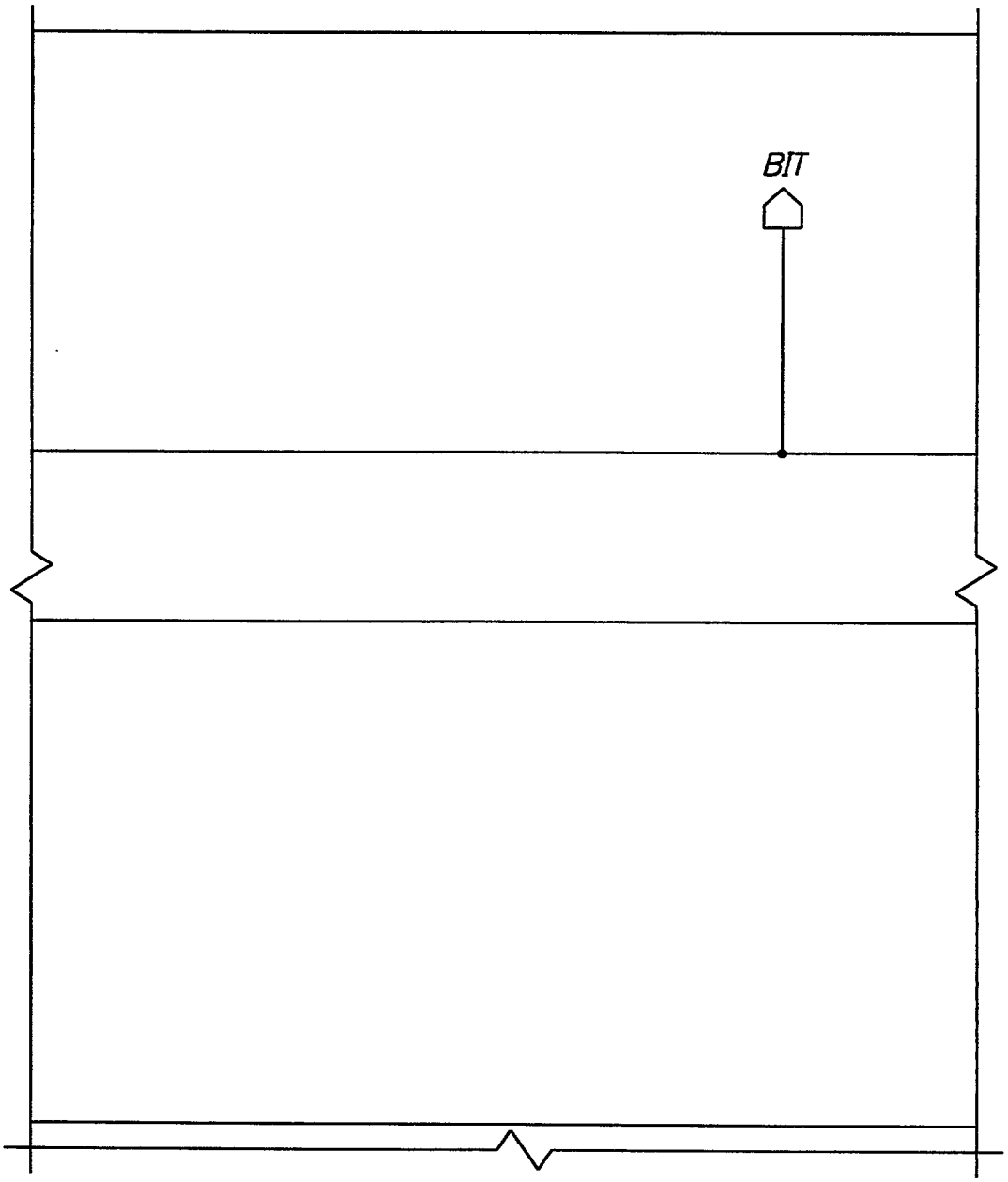


Fig 3.04GAE

Petition Exhibit 1001



Ед 1.041066АГ

Перепечатка без разрешения

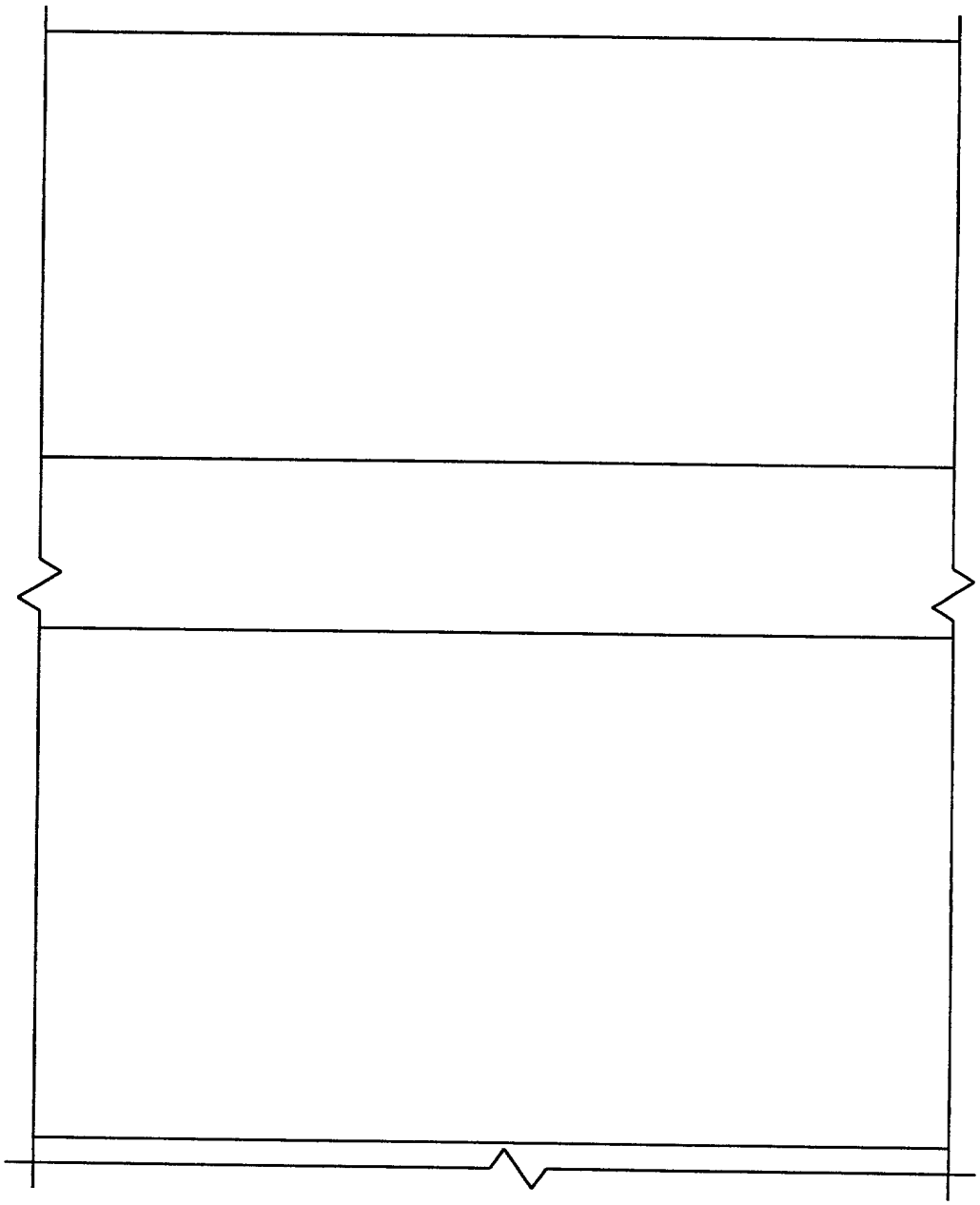
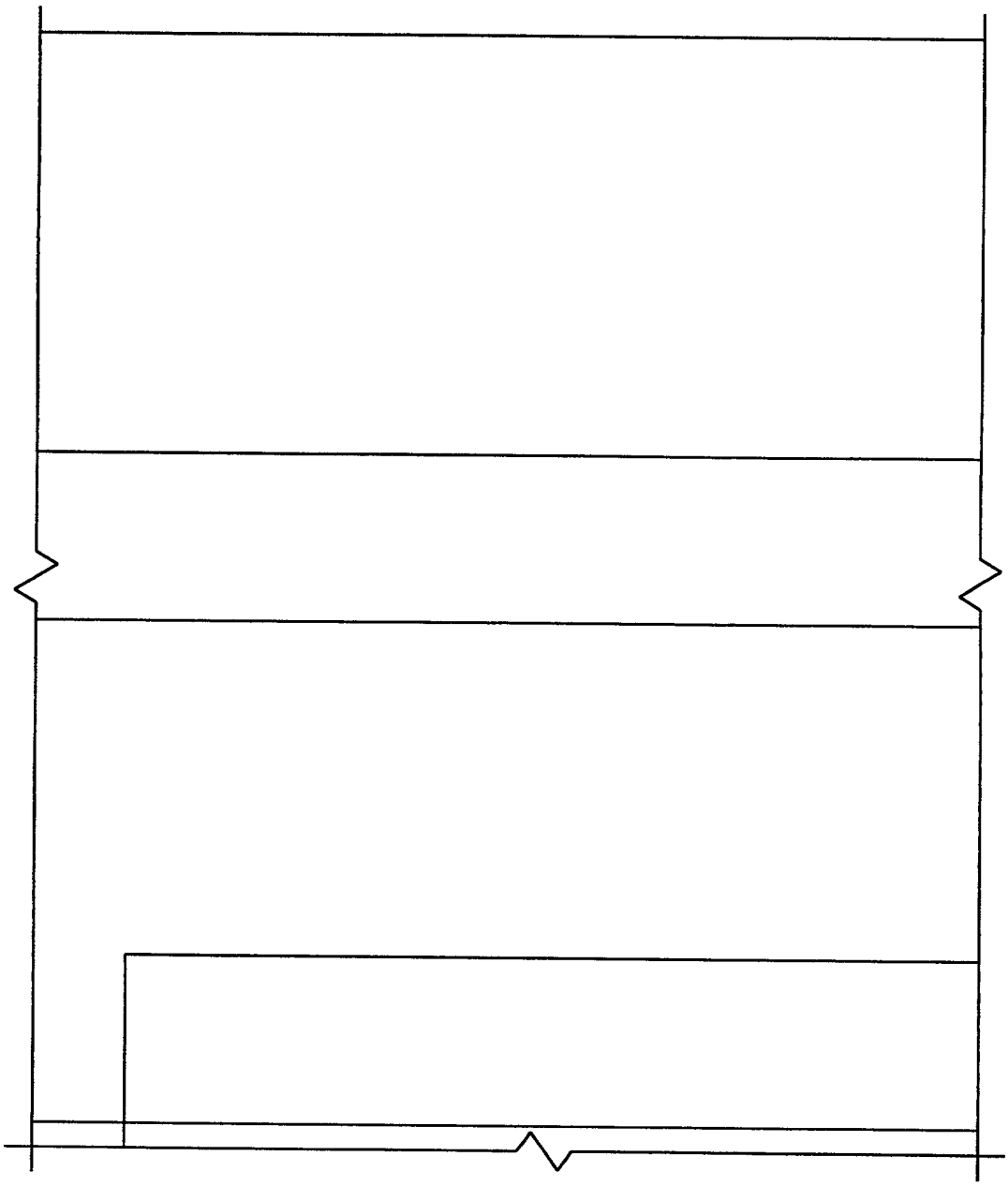
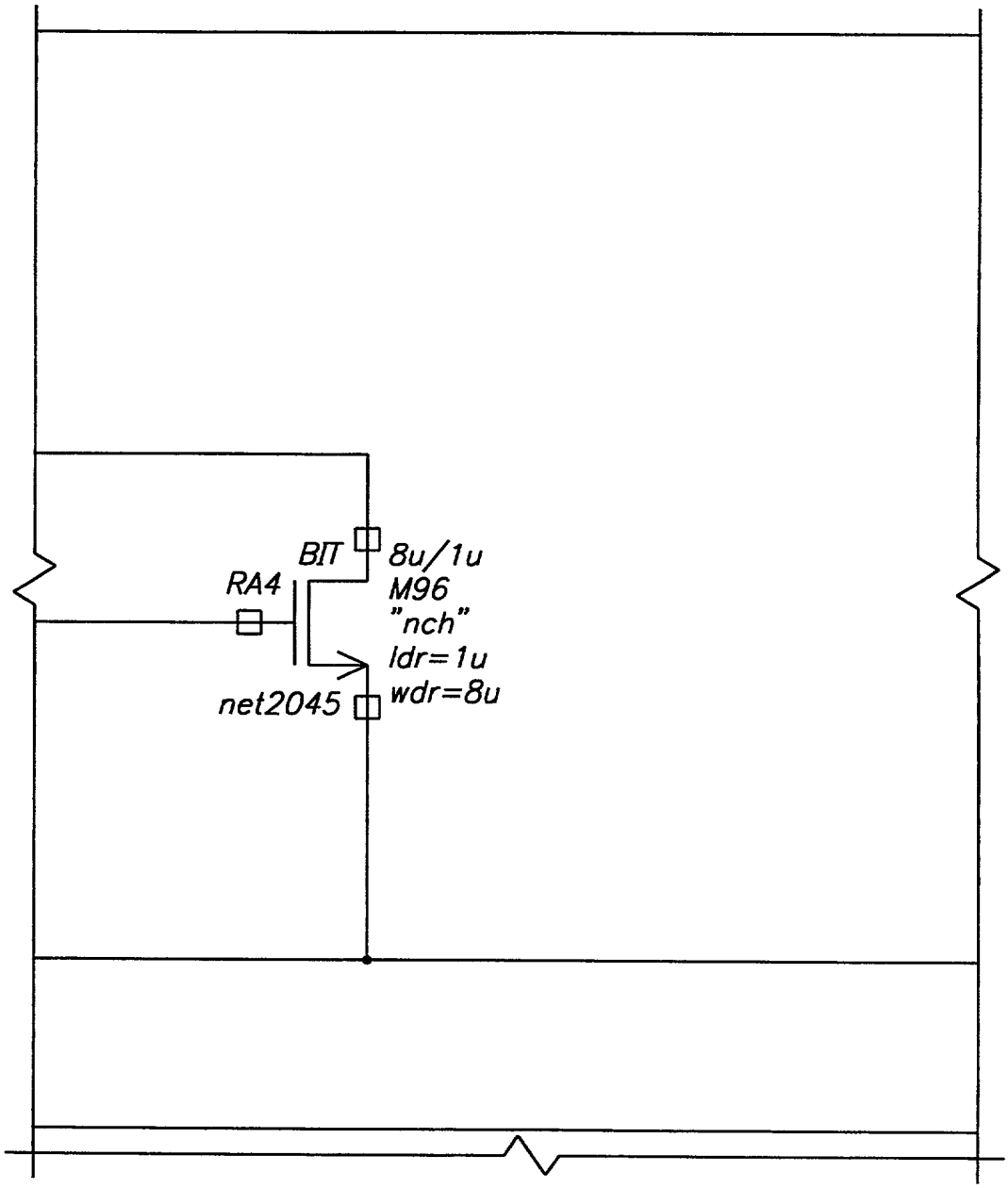


Fig 1.0406A6



Фиг 1.04106АН

Подписано - 05.12.01



Фиг 1.04ОБАП

US 6,252,795 B1

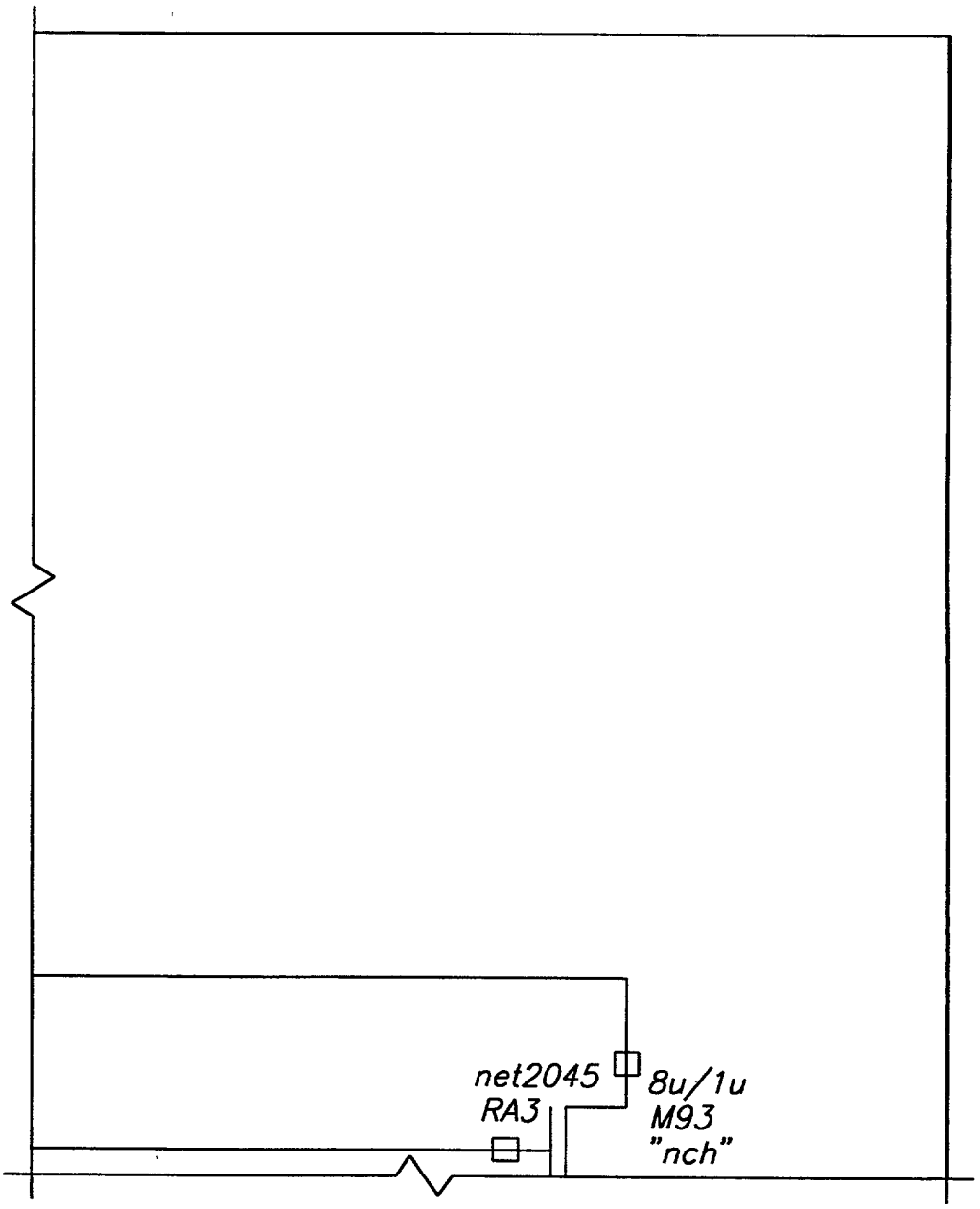


Fig 7.0-4(a)

Confidential

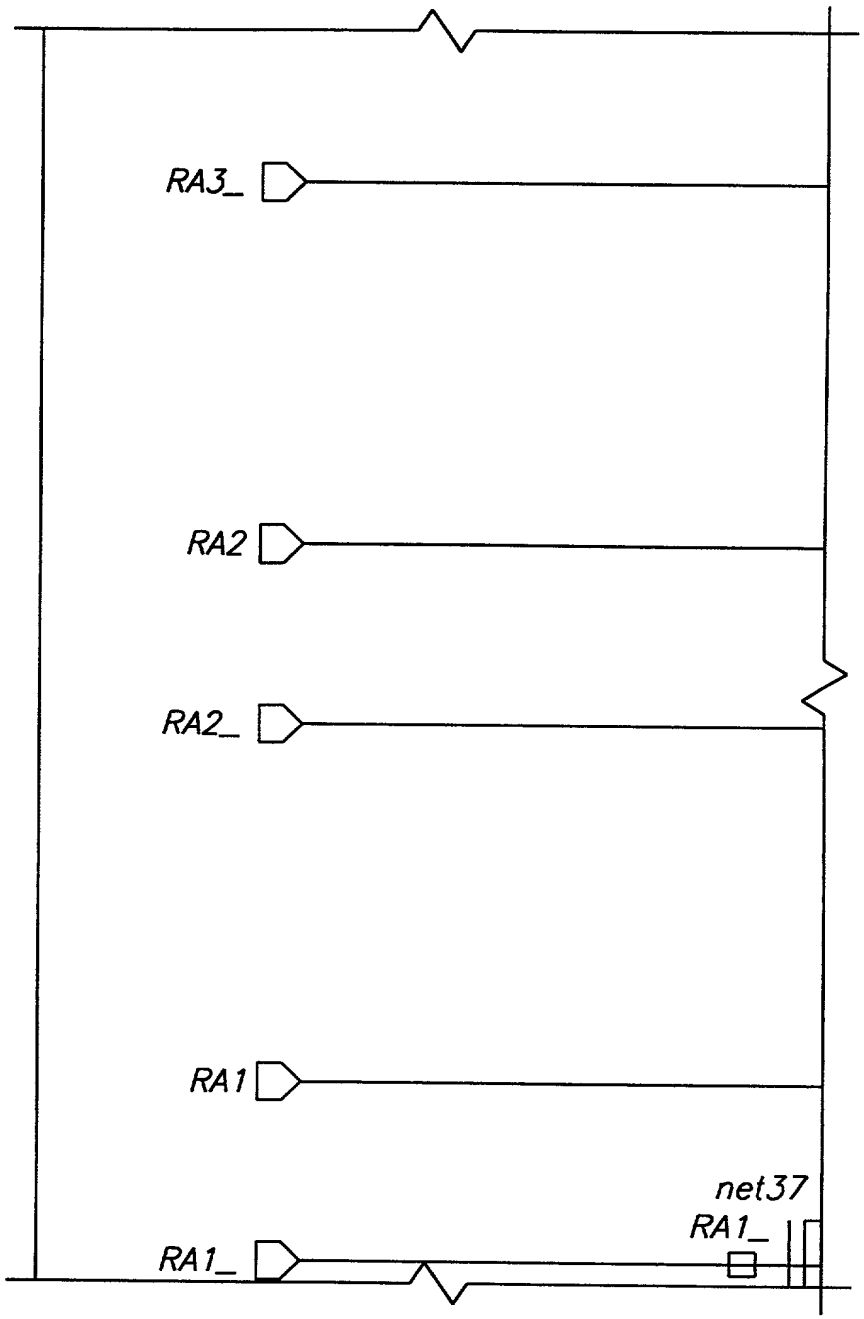


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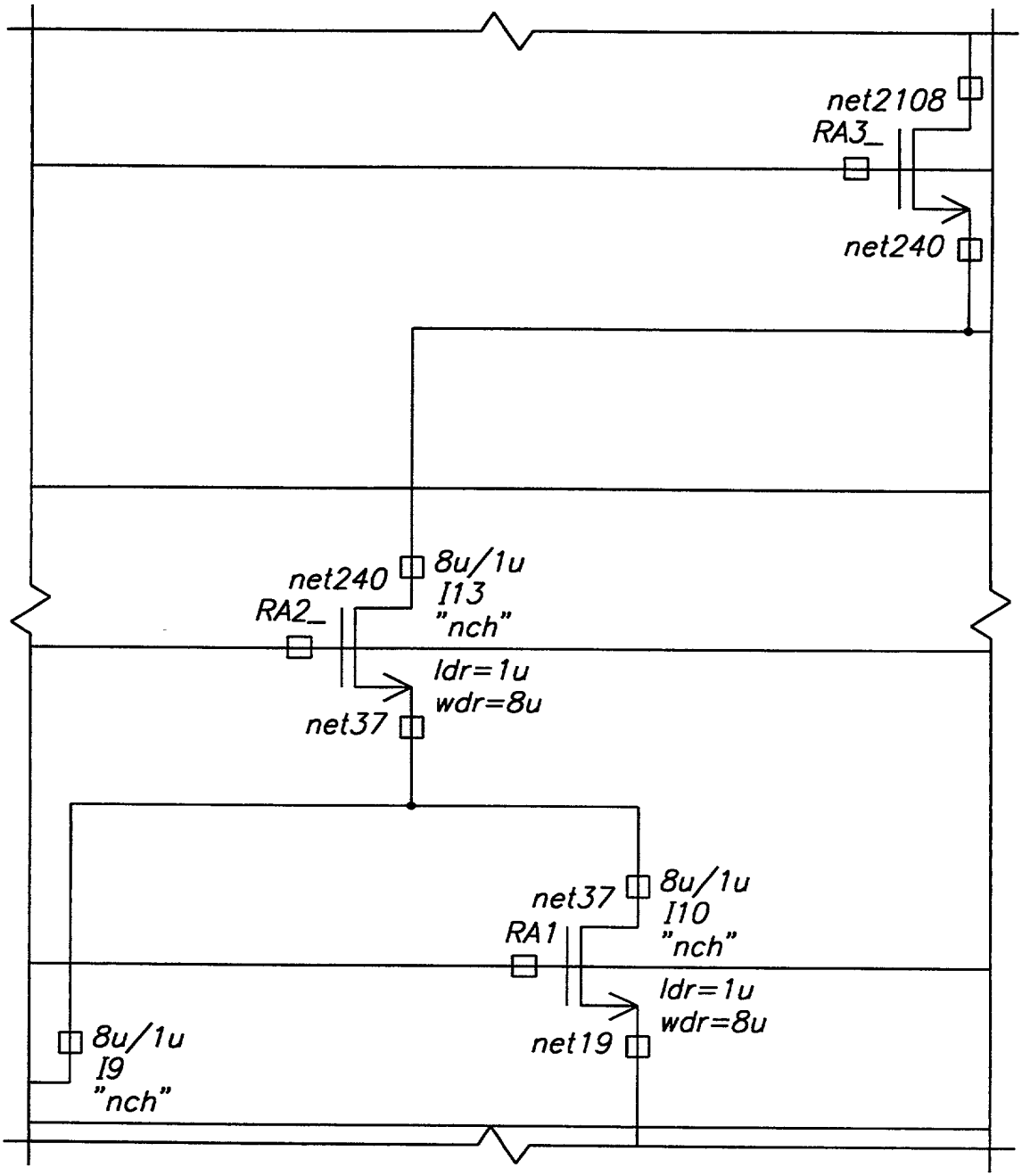

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net37
RA1
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ldr=1u
wdr=8u
net19
8u/1u
I9
"nch"

Fig 3.04.0688

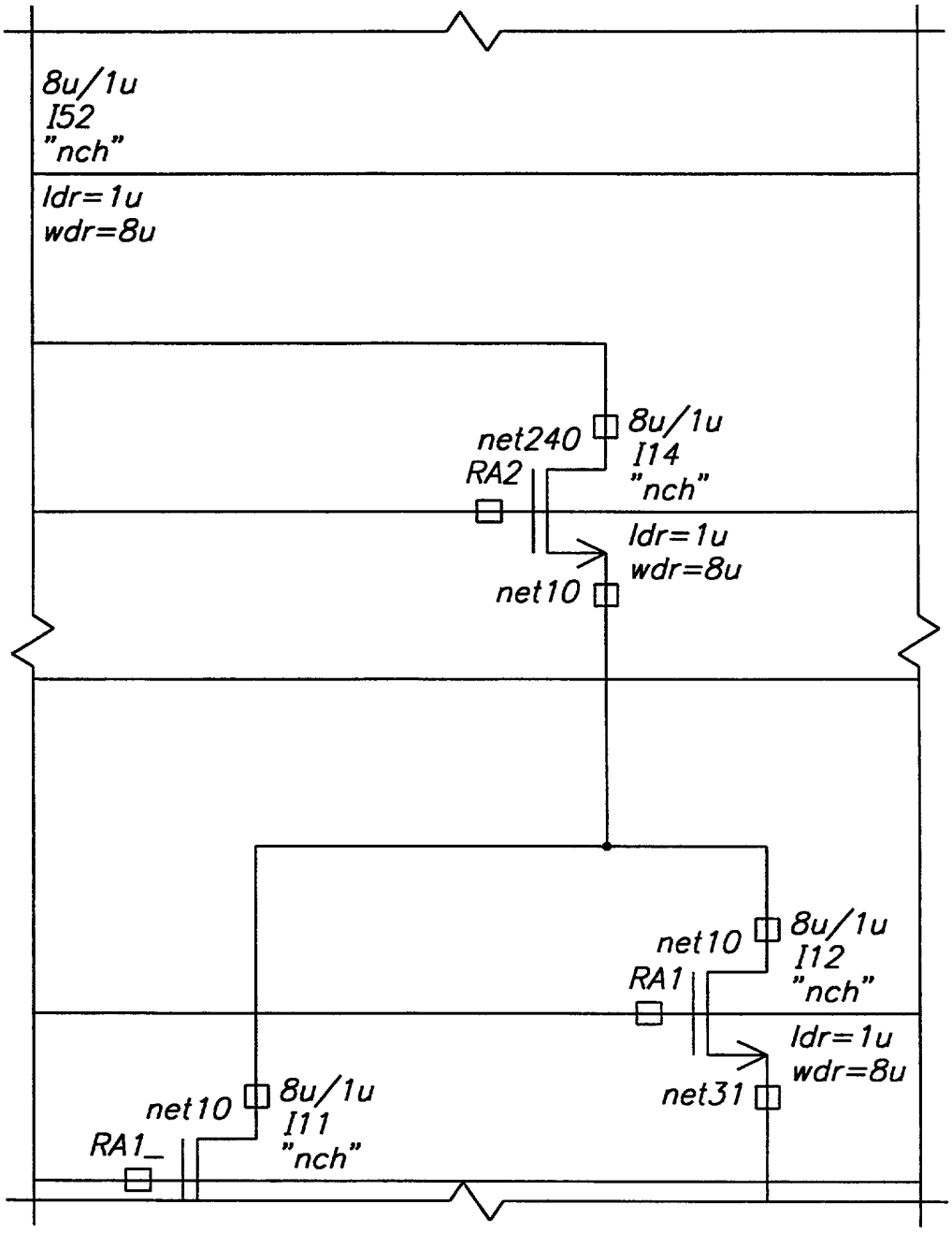

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I11
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RA1_

Fig 1.04068C

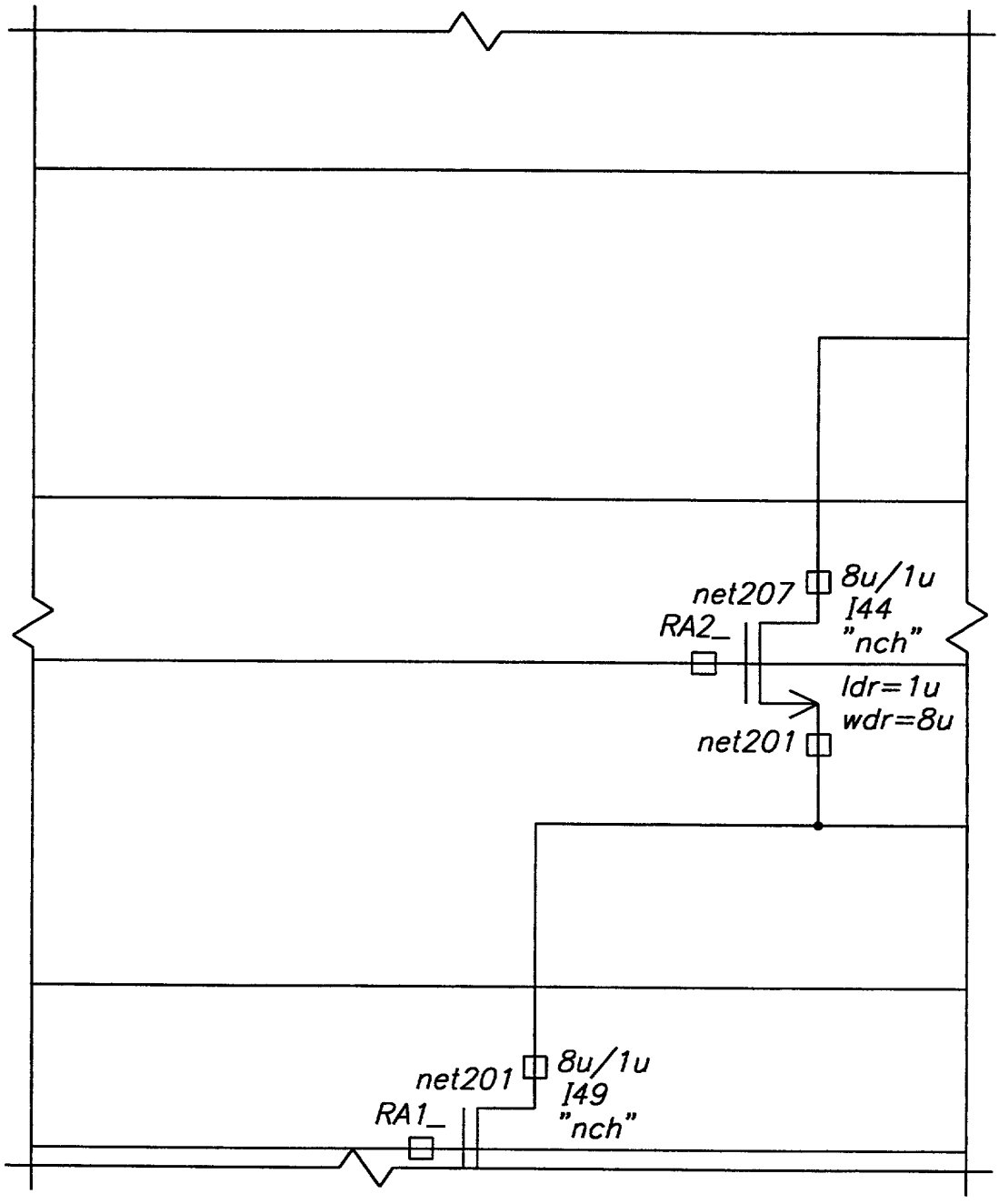
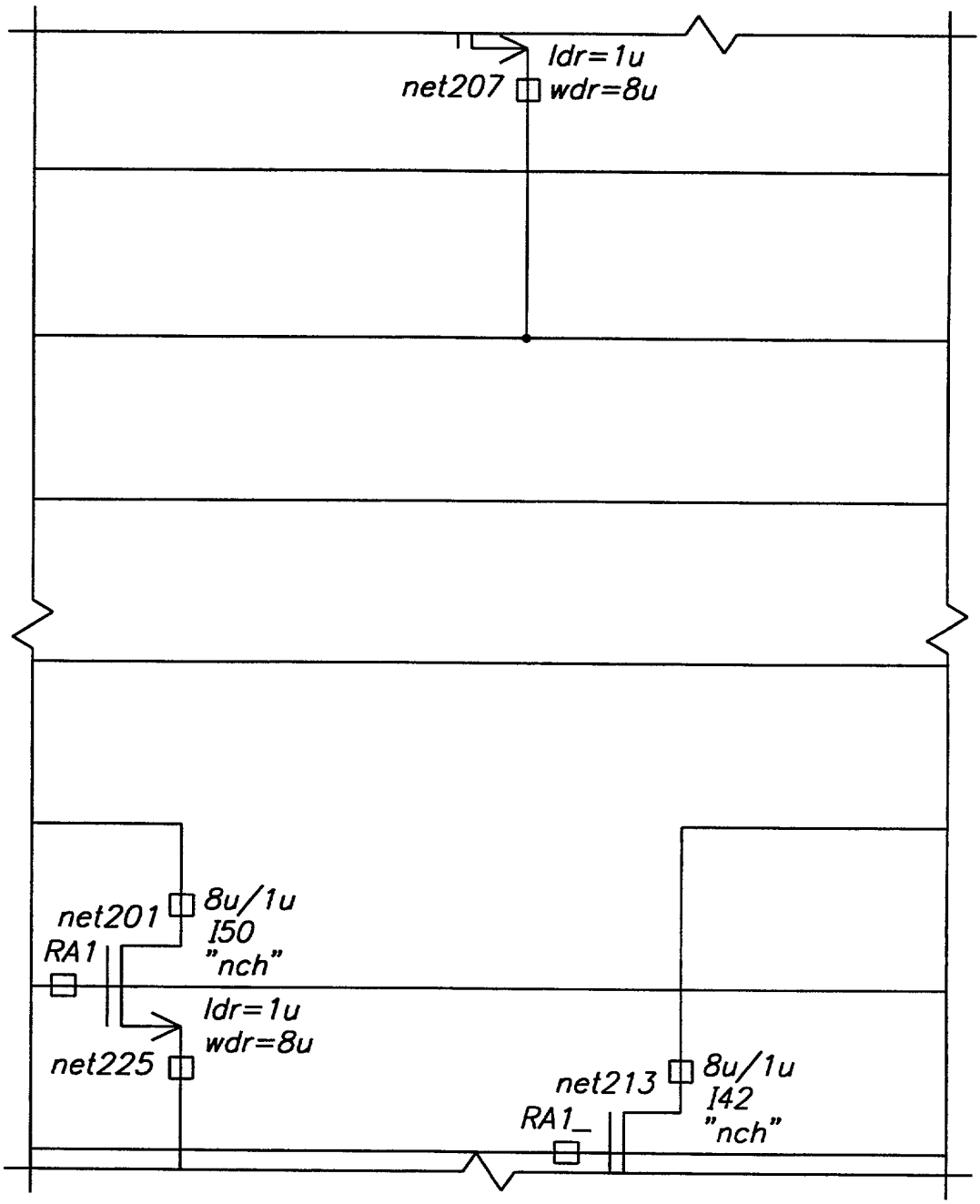


Fig 1.04060BD

US005952859A


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wdr=8u
net225
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8u/1u
I42
"nch"
RA1_

Фиг 1.04ABE

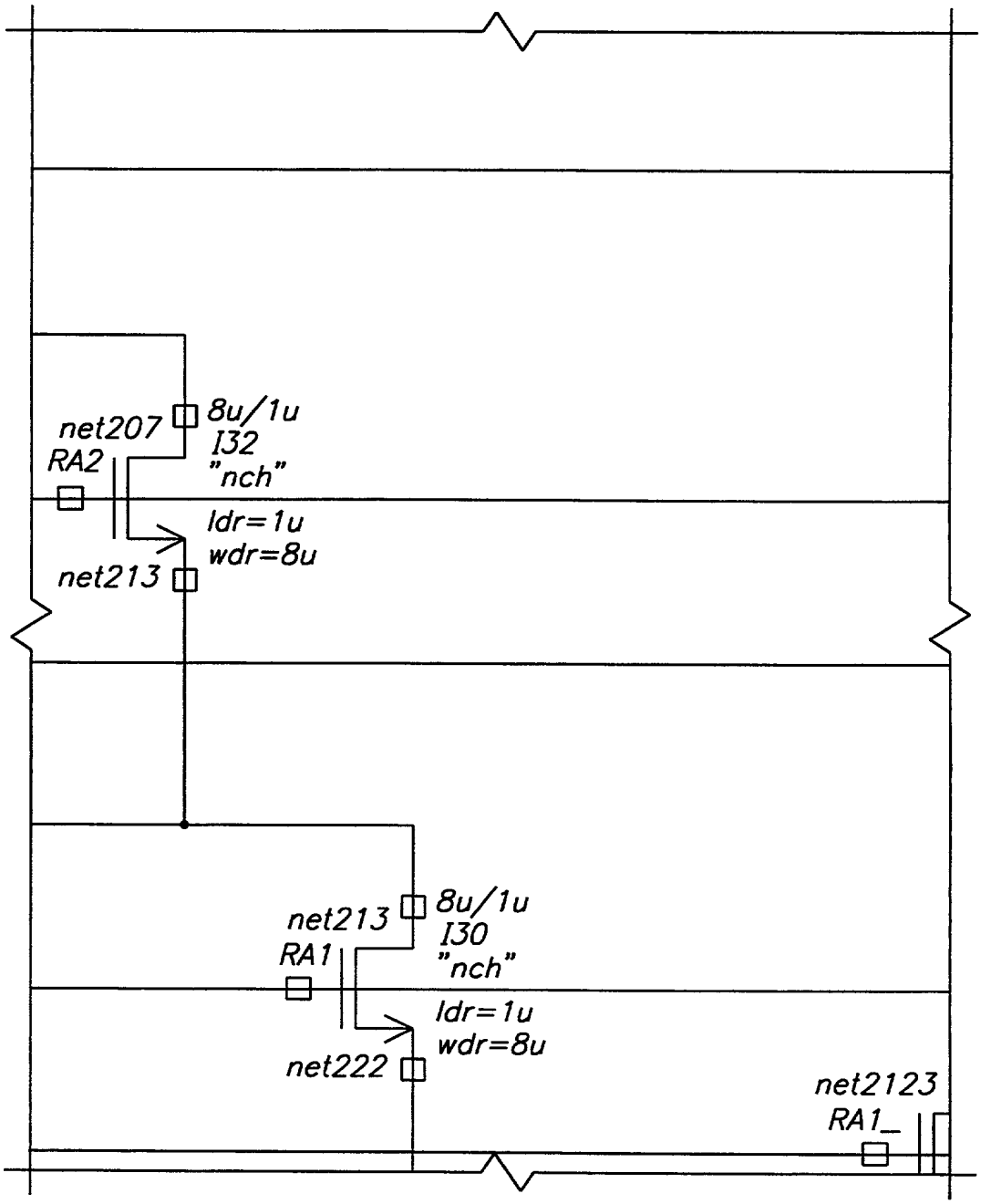


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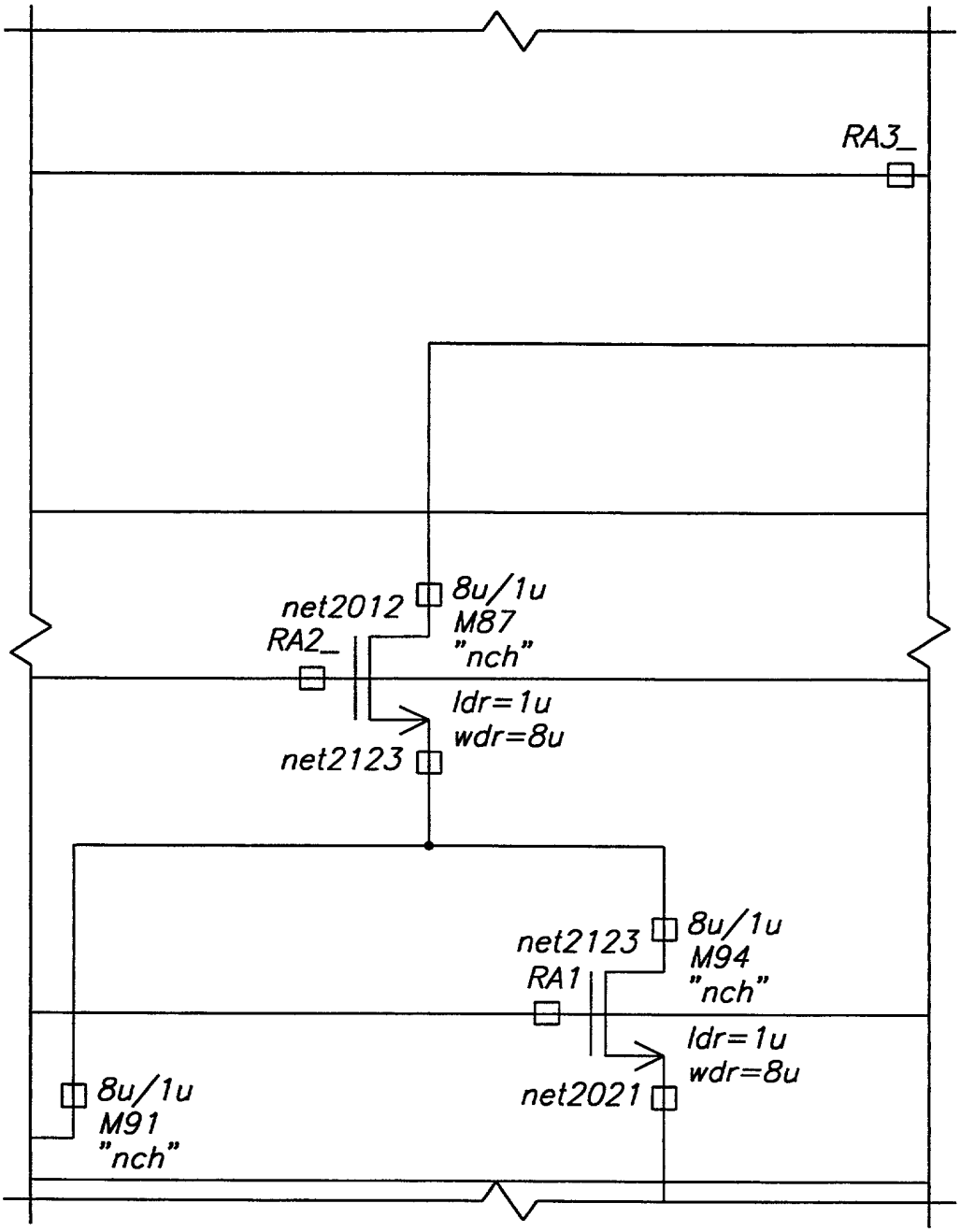
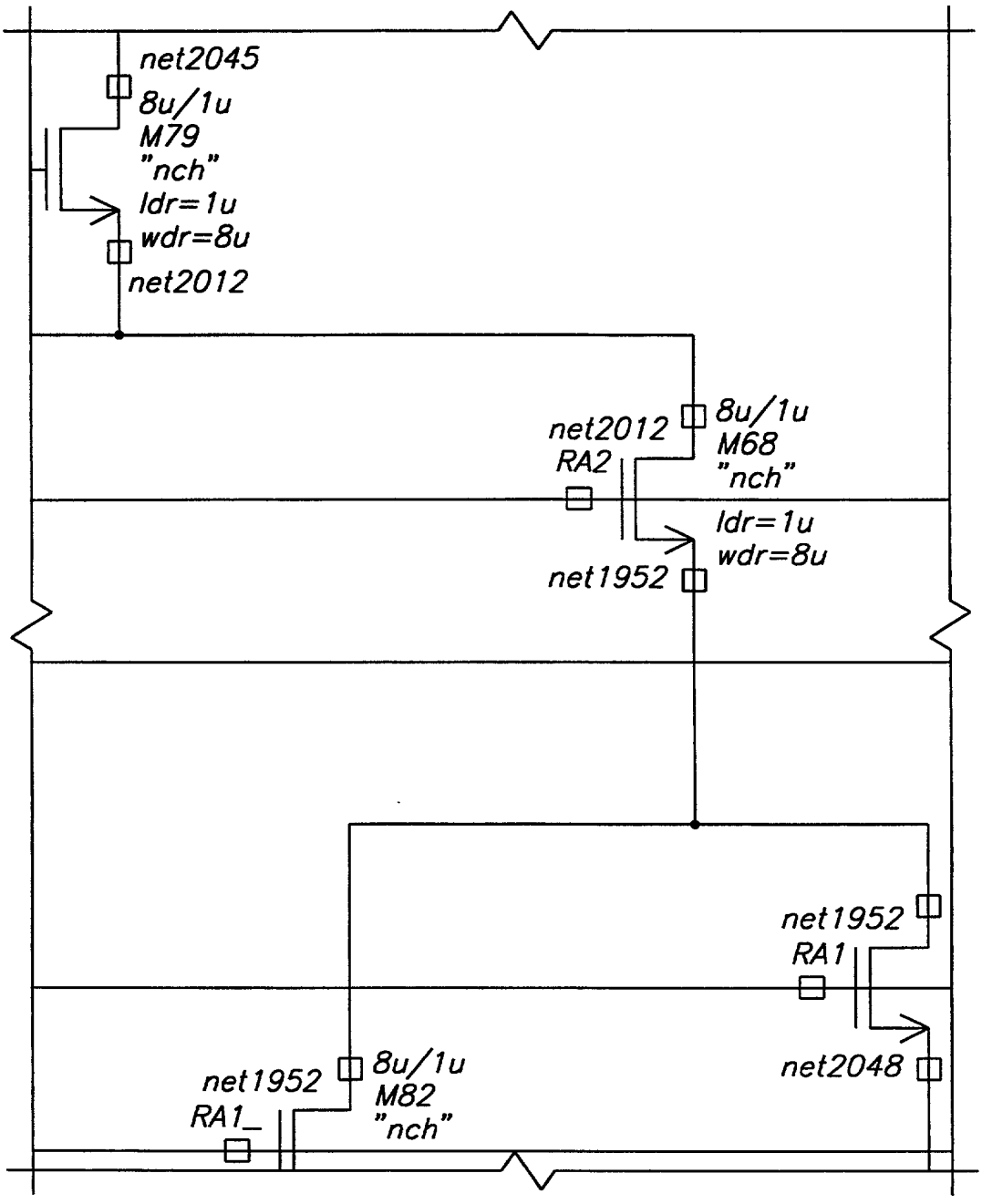

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"nch"
ldr=1u
wdr=8u
net2021
8u/1u
M91
"nch"

Fig 1.0406B6


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wdr=8u
net2012
net2012
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8u/1u
M68
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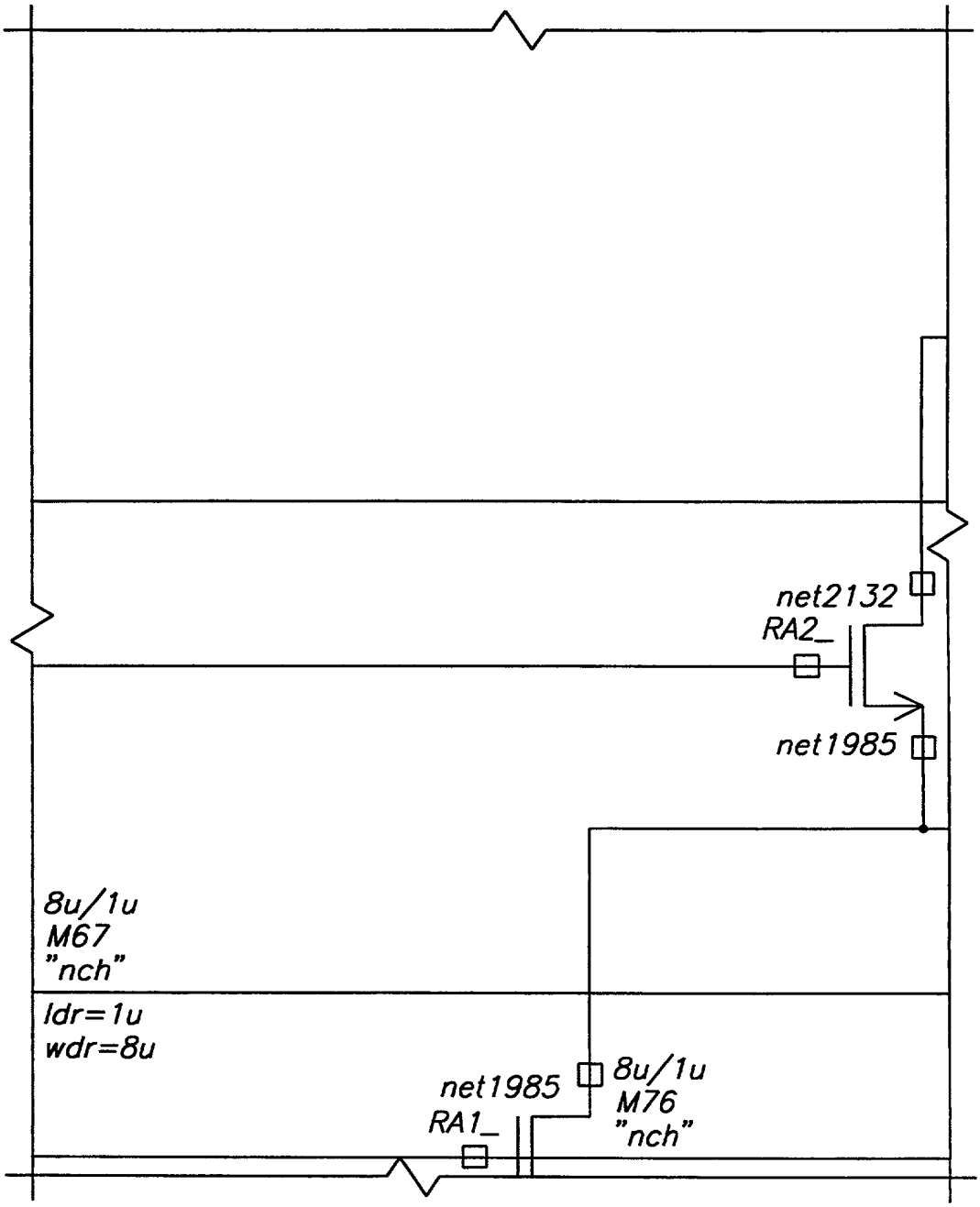

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Fig 7.04061

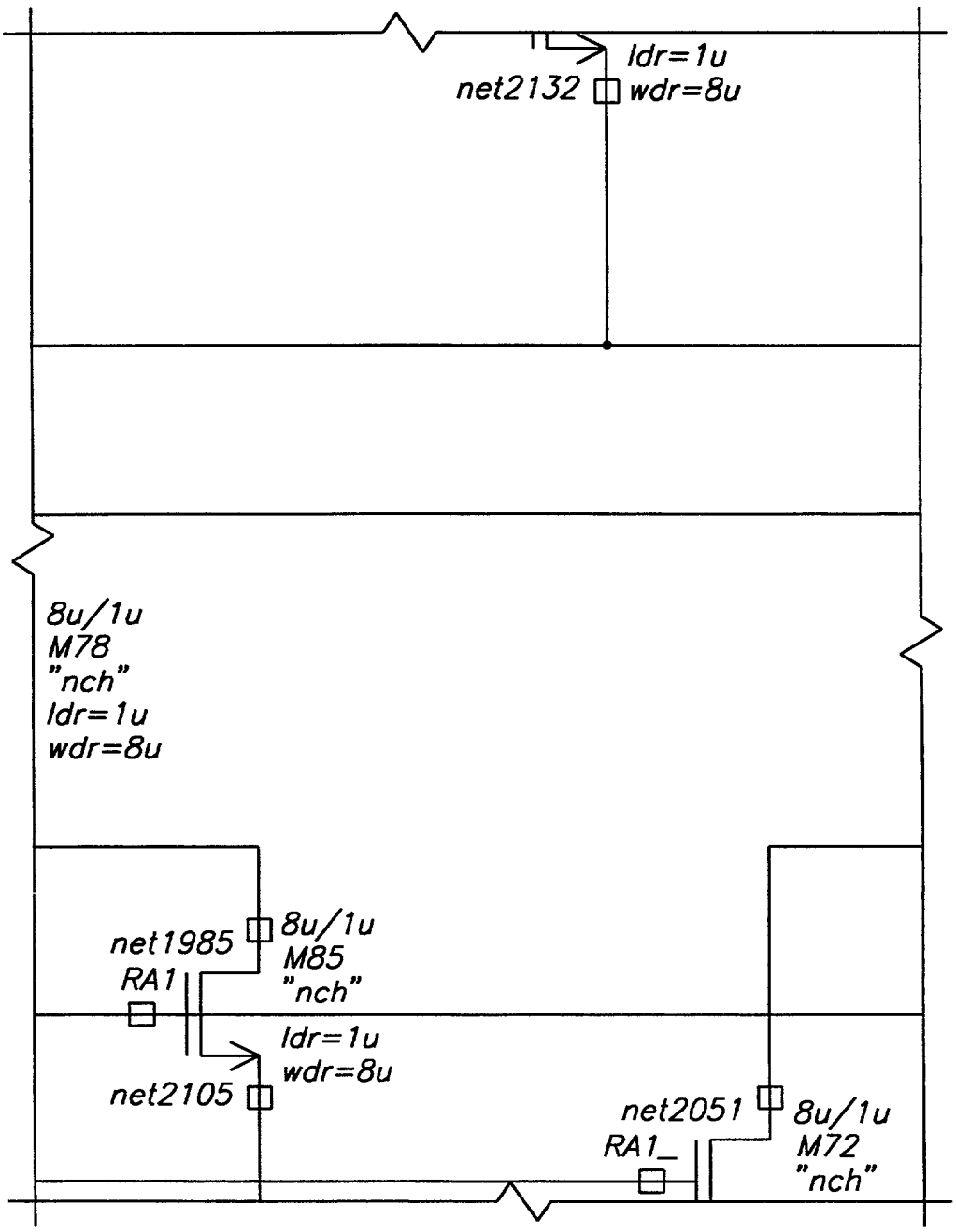


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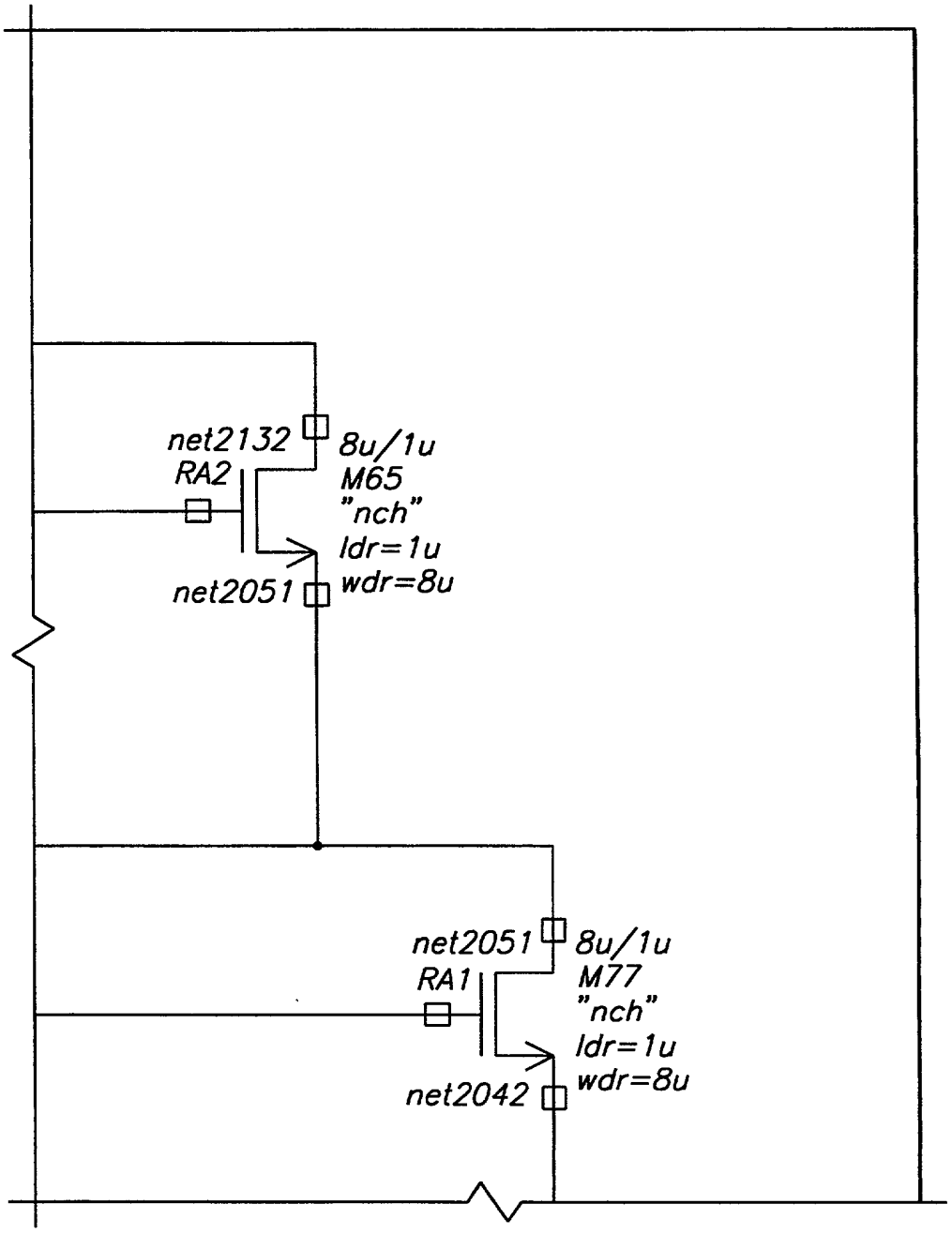

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Fig 1.04GBK

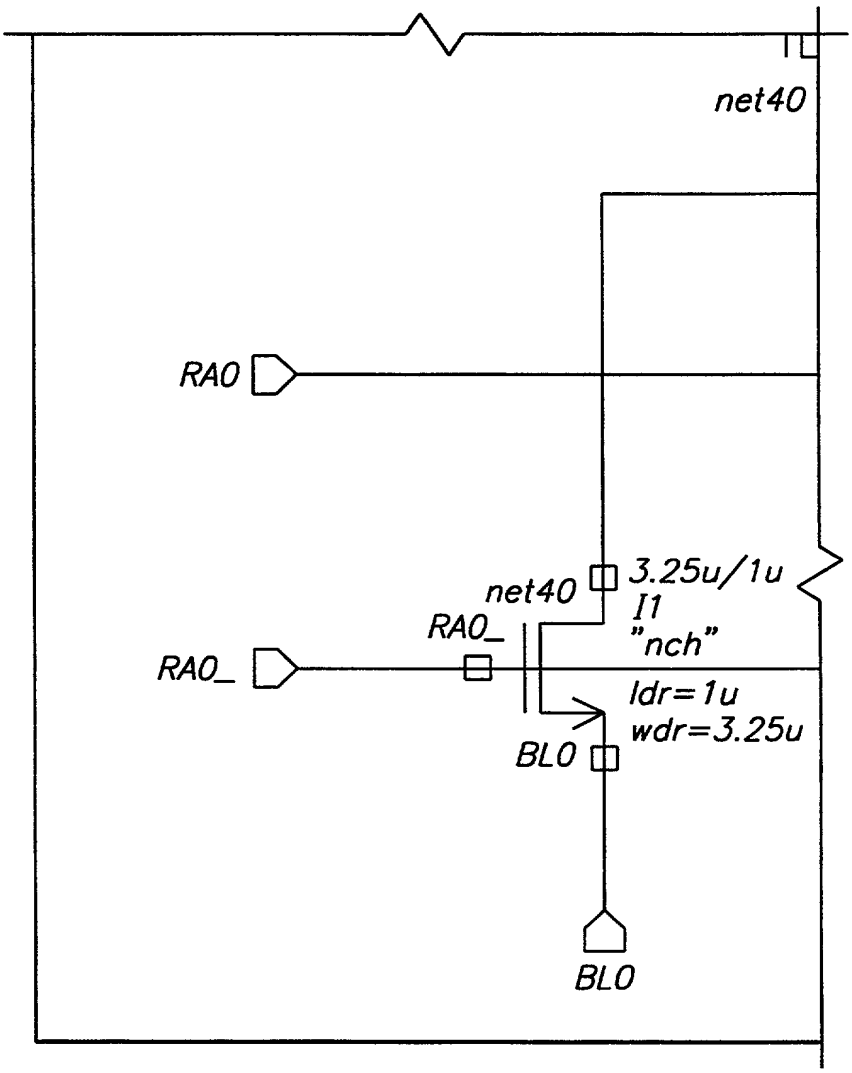
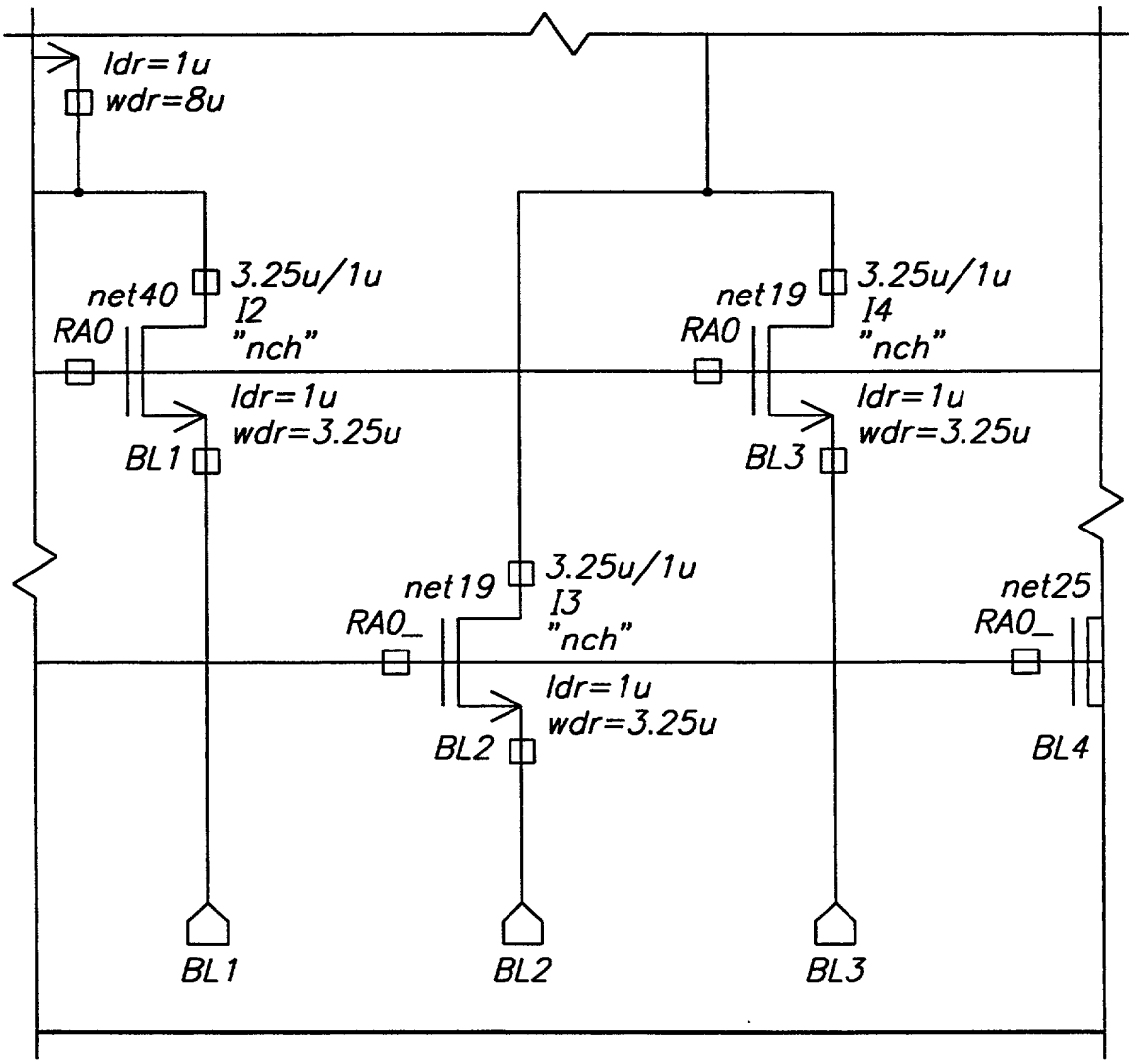
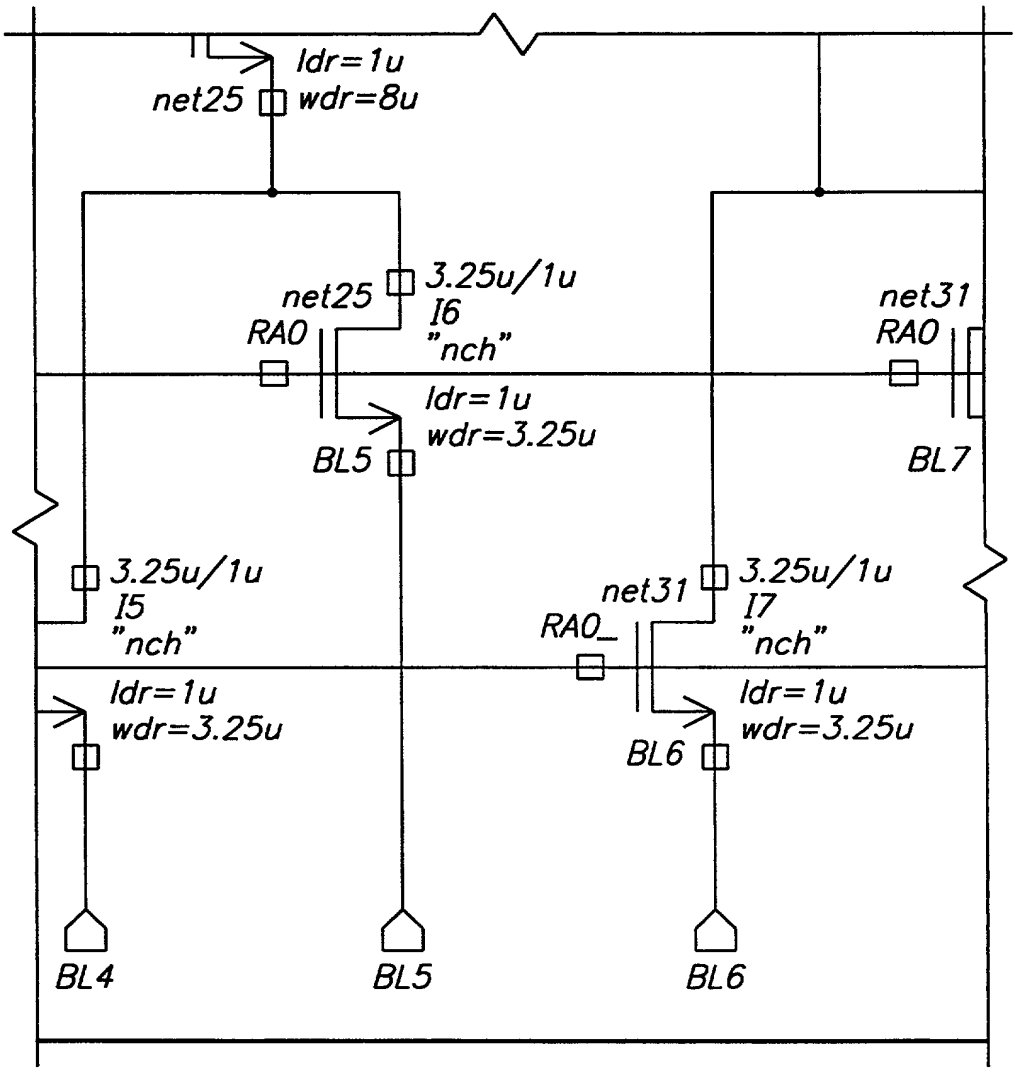


Fig 3.04066A



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wdr=3.25u
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BL7
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net31
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I7
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wdr=3.25u
ldr=1u
wdr=3.25u
BL6
BL4
BL5
BL6

Фиг 1.04ОБС

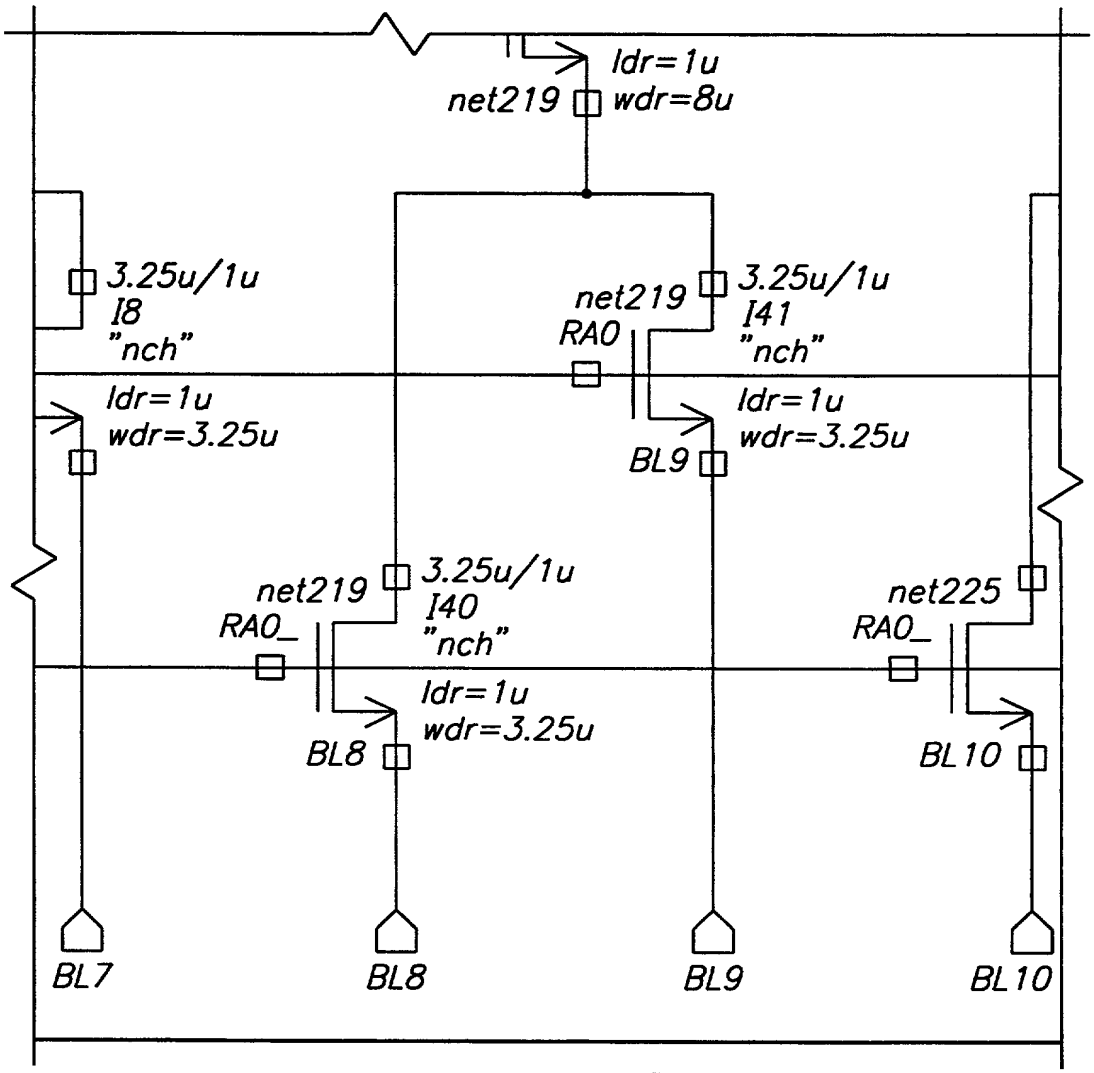

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wdr=8u
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I8
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net219
RA0
3.25u/1u
I41
"nch"
ldr=1u
wdr=3.25u
BL9
ldr=1u
wdr=3.25u
net219
RA0_
3.25u/1u
I40
"nch"
net225
RA0_
ldr=1u
wdr=3.25u
BL8
BL10
BL7
BL8
BL9
BL10

Fig 1.0410CD

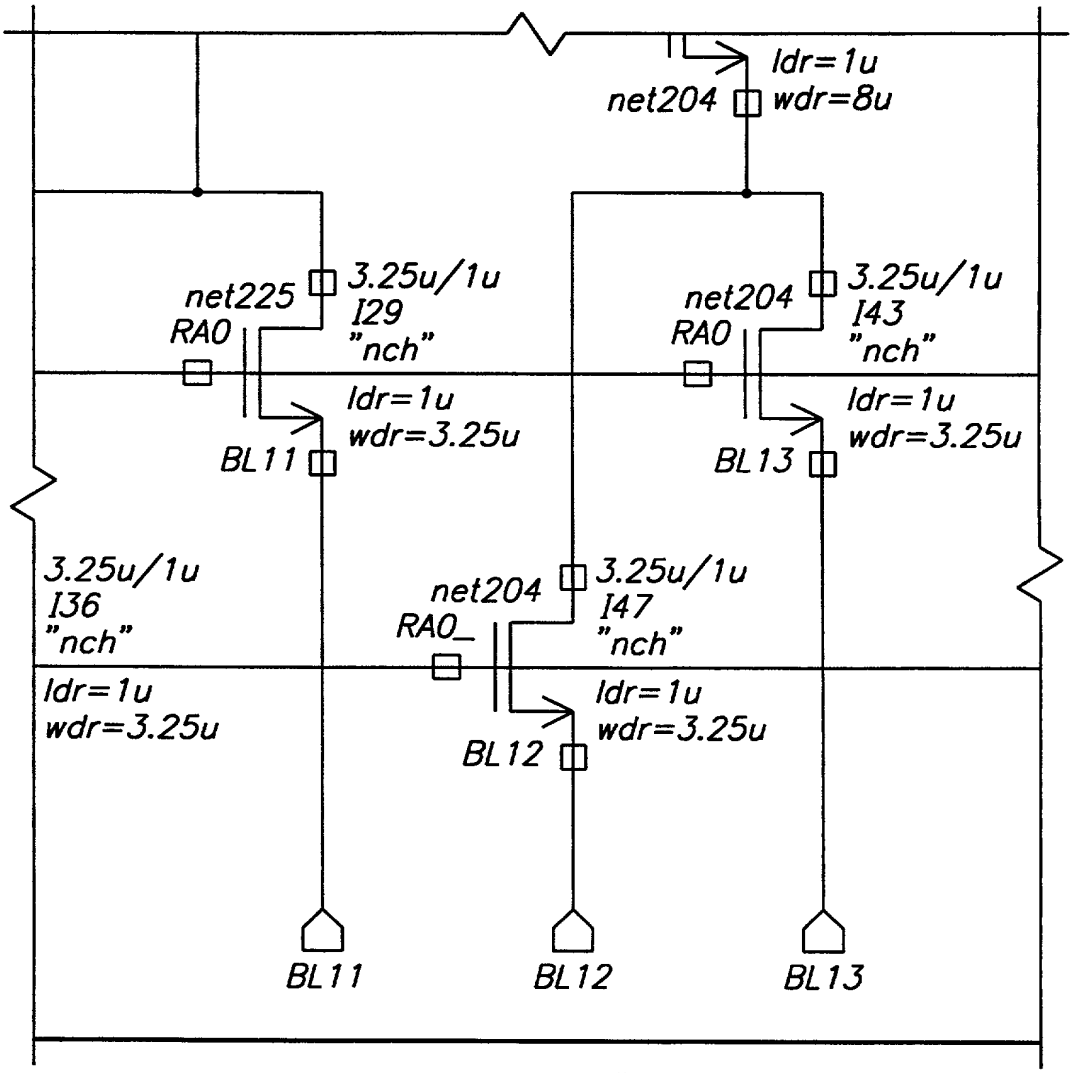

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wdr=8u
net225
RA0
3.25u/1u
I29
"nch"
net204
RA0
3.25u/1u
I43
"nch"
ldr=1u
wdr=3.25u
BL11
ldr=1u
wdr=3.25u
BL13
3.25u/1u
I36
"nch"
net204
RA0_
3.25u/1u
I47
"nch"
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wdr=3.25u
BL12
BL11
BL12
BL13

Fig 2.0406CE

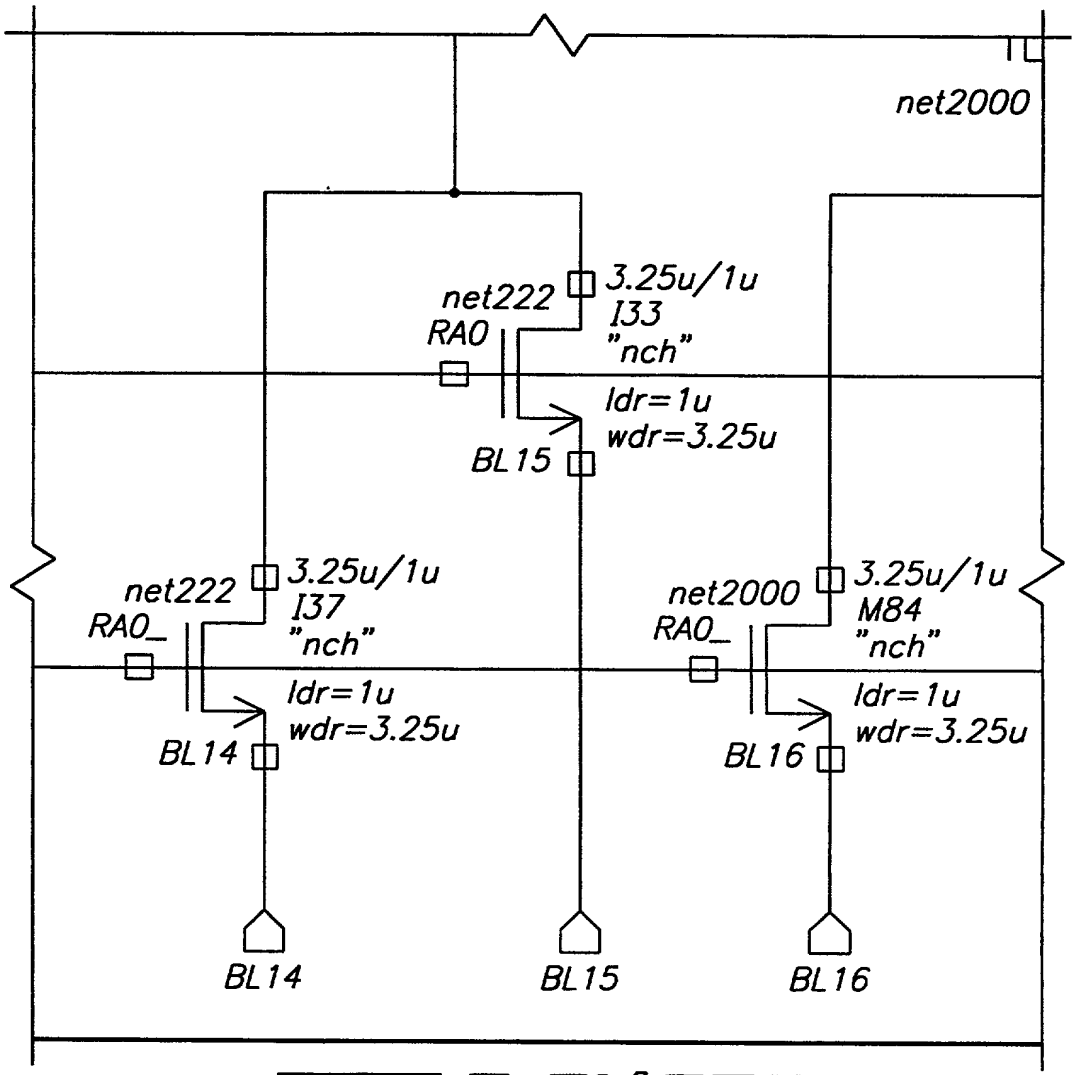
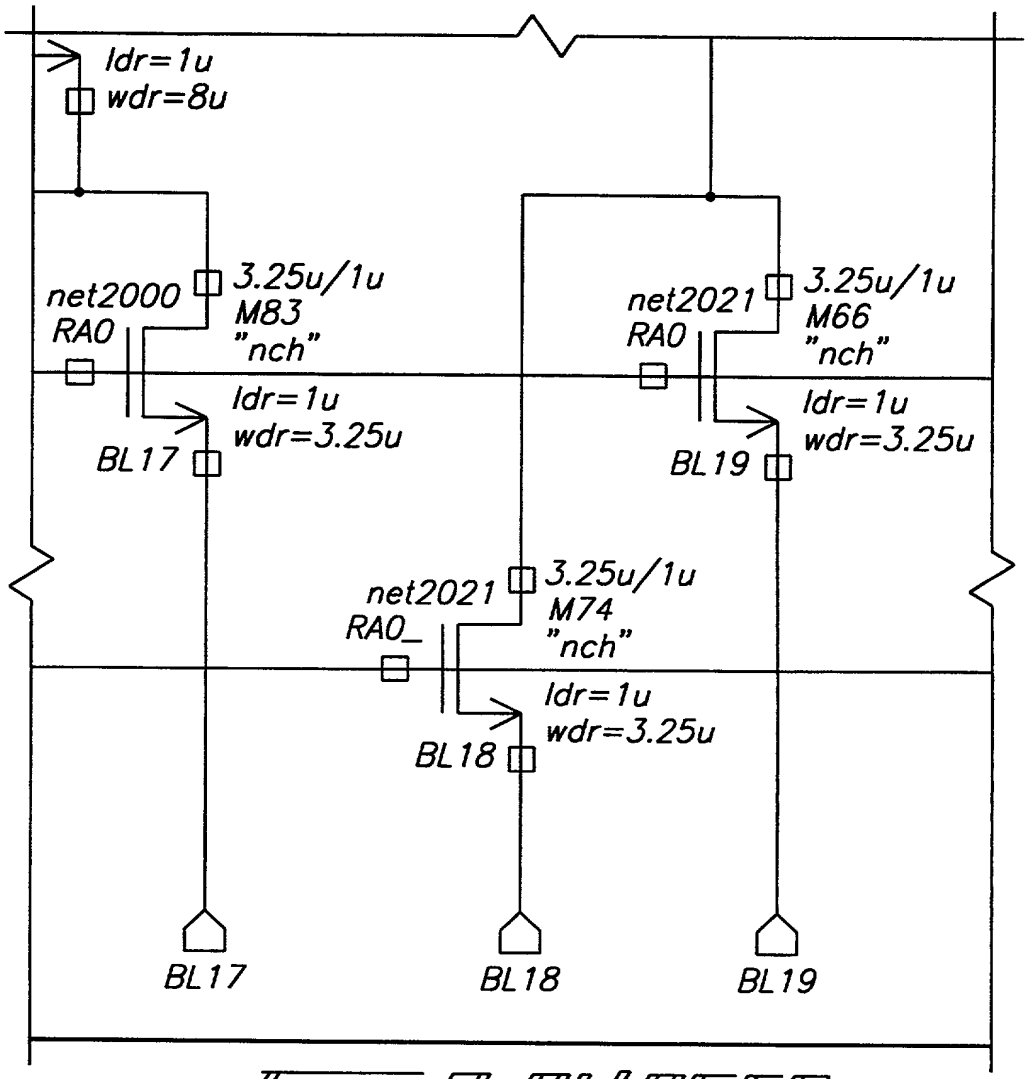

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wdr=3.25u
BL15
net222
RA0_
3.25u/1u
I37
"nch"
ldr=1u
wdr=3.25u
BL14
net2000
RA0_
3.25u/1u
M84
"nch"
ldr=1u
wdr=3.25u
BL16
BL14
BL15
BL16

Fig 1.0-4065F


ldr=1u
wdr=8u
net2000
RA0
3.25u/1u
M83
"nch"
ldr=1u
wdr=3.25u
BL17
net2021
RA0
3.25u/1u
M66
"nch"
ldr=1u
wdr=3.25u
BL19
net2021
RA0_
3.25u/1u
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ldr=1u
wdr=3.25u
BL18
BL17
BL18
BL19

Фиг 1.04406

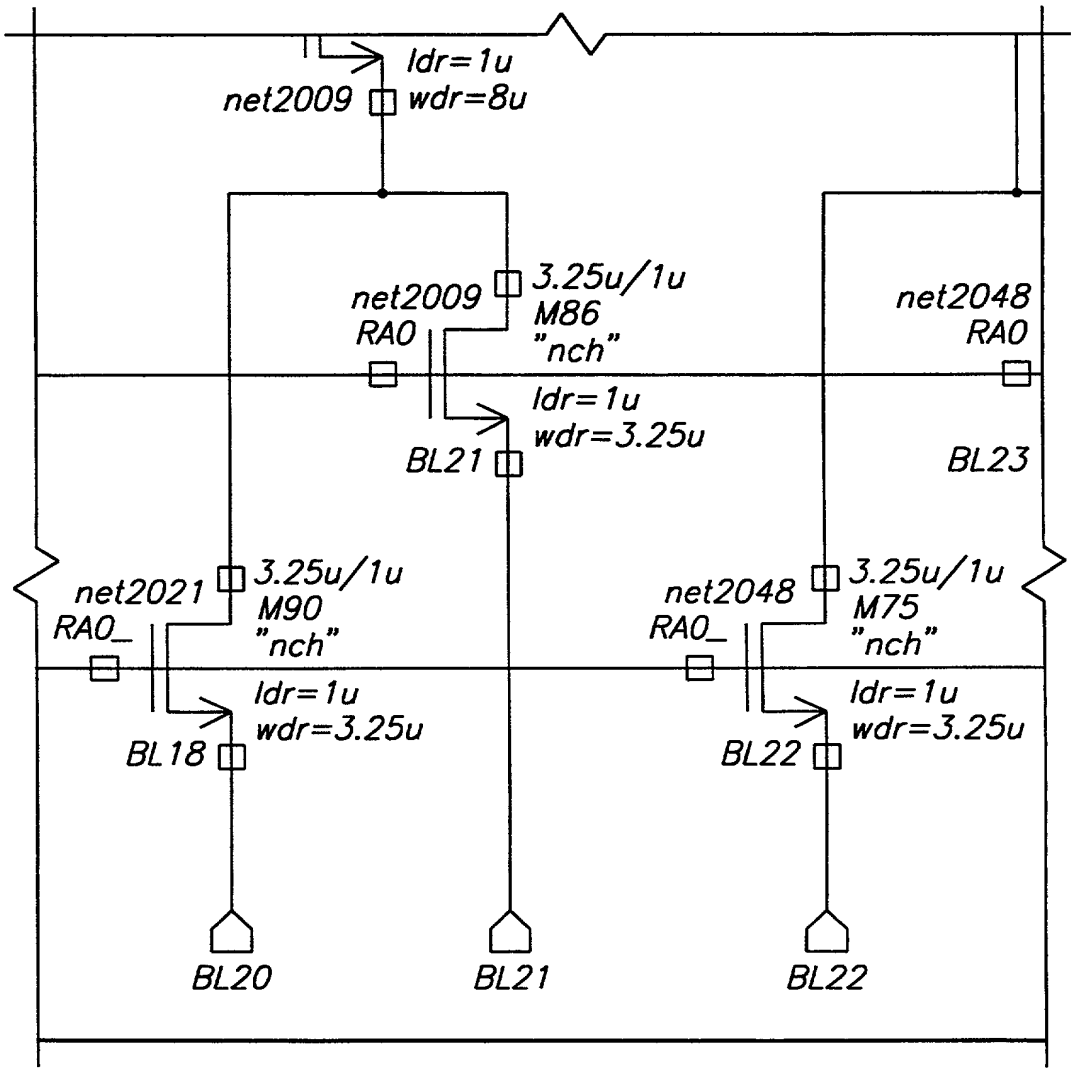

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net2048
RA0
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wdr=3.25u
BL21
BL23
net2021
RA0_
3.25u/1u
M90
"nch"
net2048
RA0_
3.25u/1u
M75
"nch"
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ldr=1u
wdr=3.25u
BL22
BL20
BL21
BL22

Fig 1.04806H

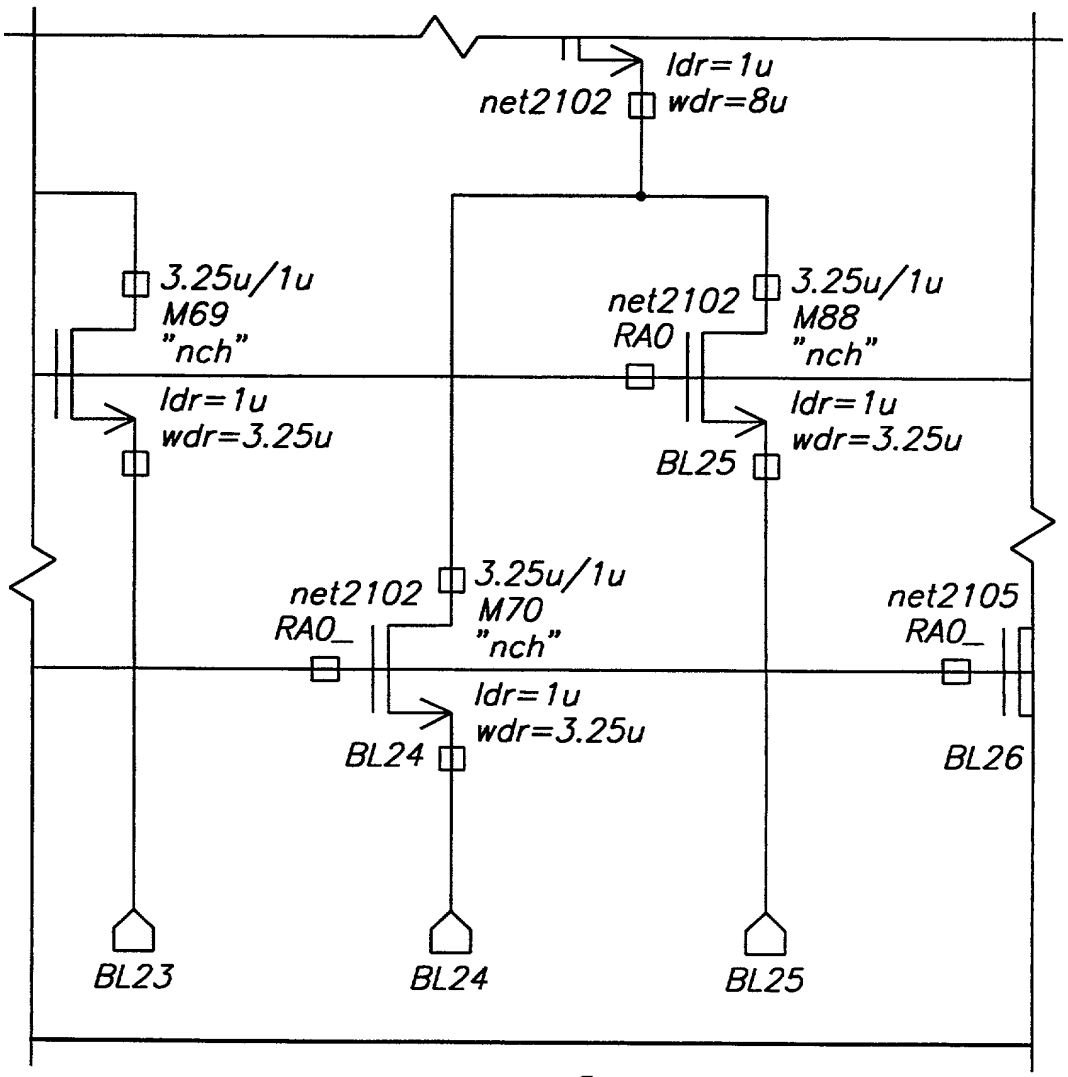


Fig 3.04106CII

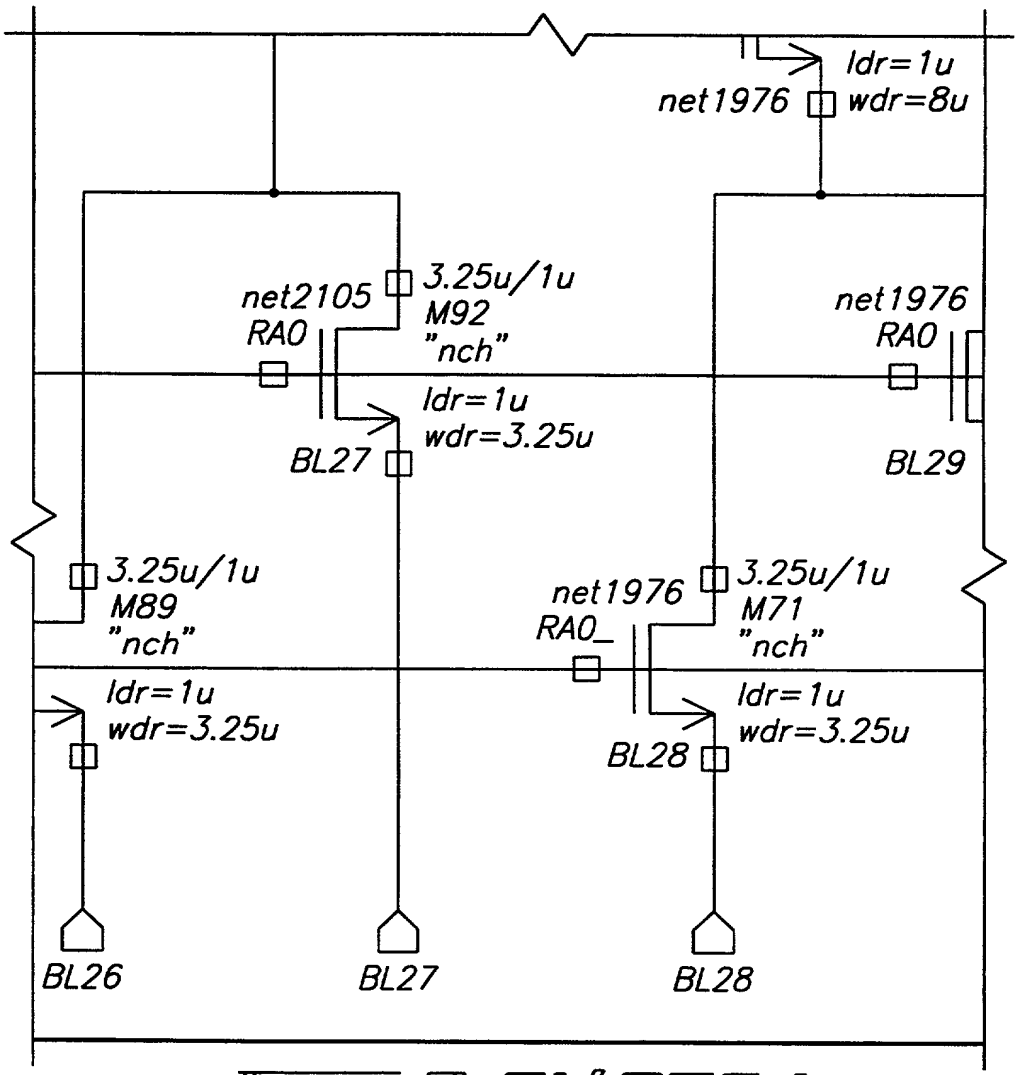
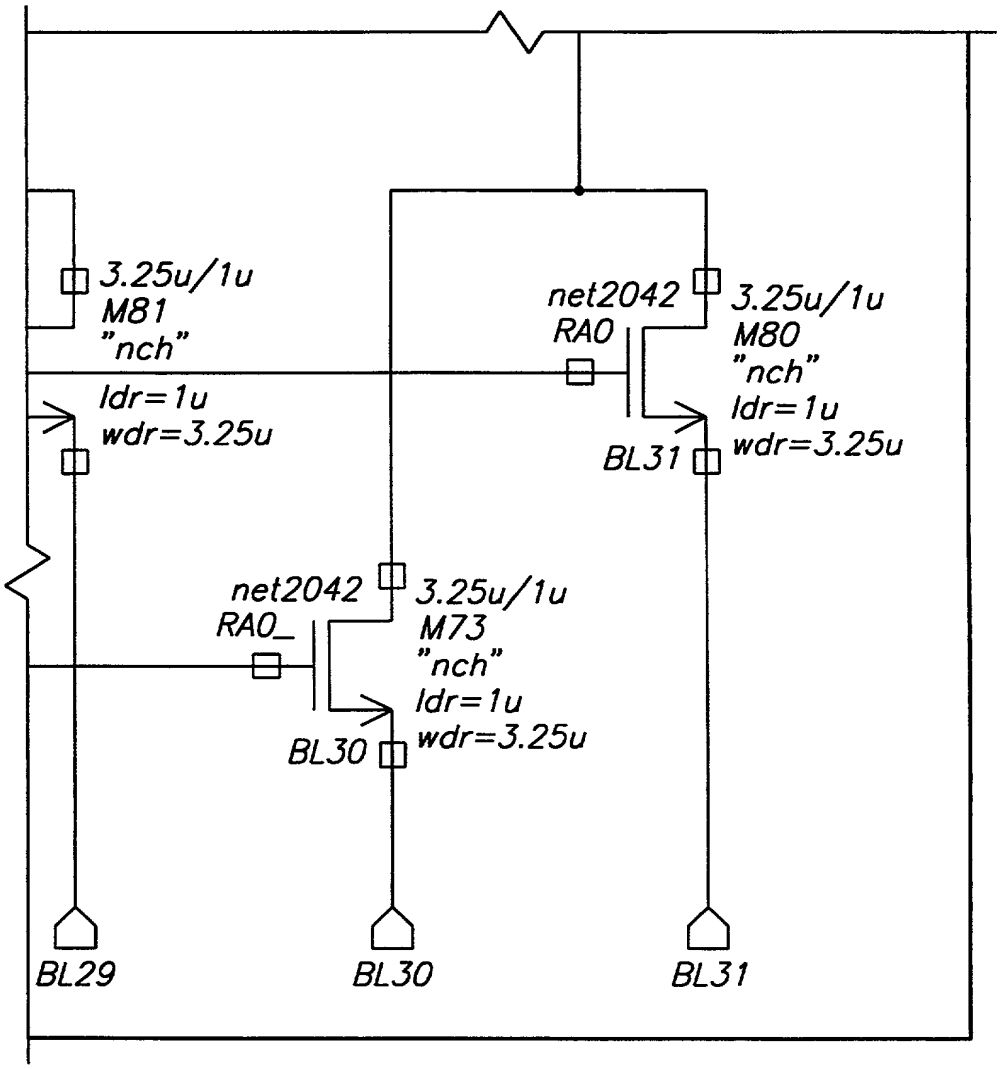

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RA0
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wdr=3.25u
BL27
BL29
3.25u/1u
M89
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net1976
RA0_
3.25u/1u
M71
"nch"
ldr=1u
wdr=3.25u
ldr=1u
wdr=3.25u
BL28
BL26
BL27
BL28

Fig 1.0404C.1


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wdr=3.25u
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RA0
3.25u/1u
M80
"nch"
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BL31
net2042
RA0_
3.25u/1u
M73
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BL29
BL30
BL31

Блок 1.04ВСК

TOTTOD" E90228611

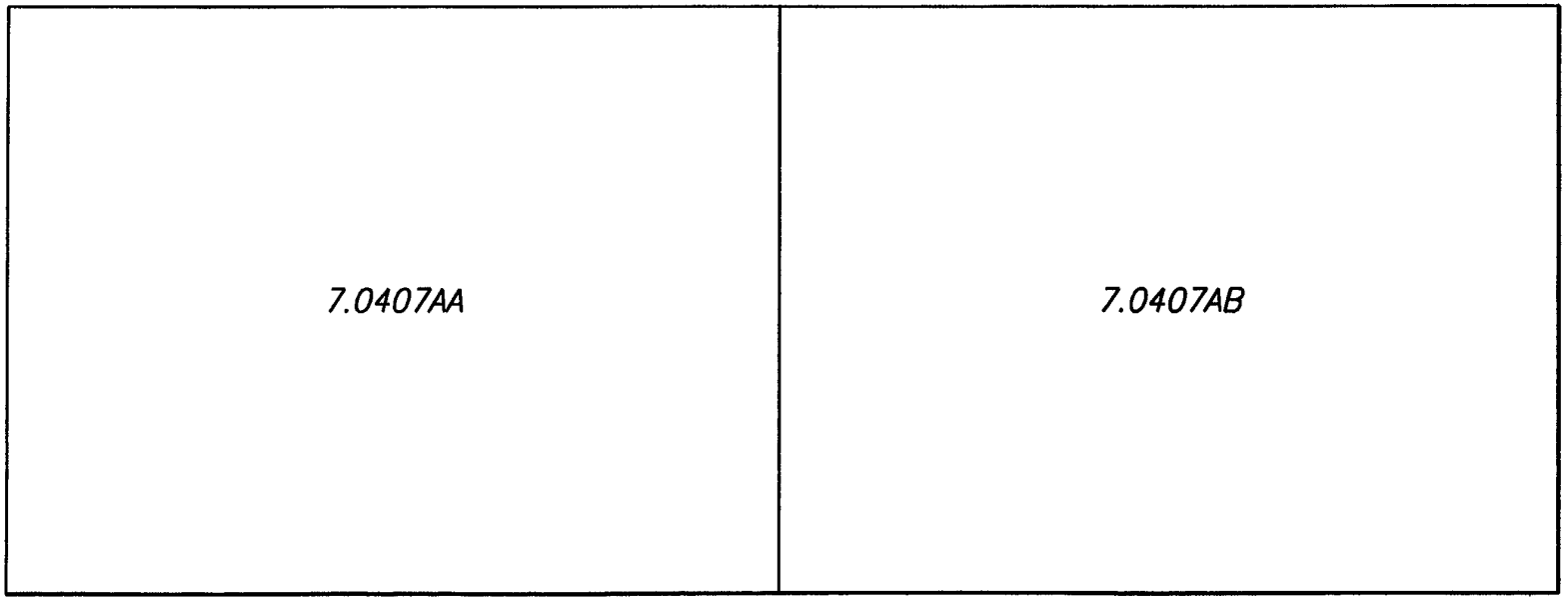
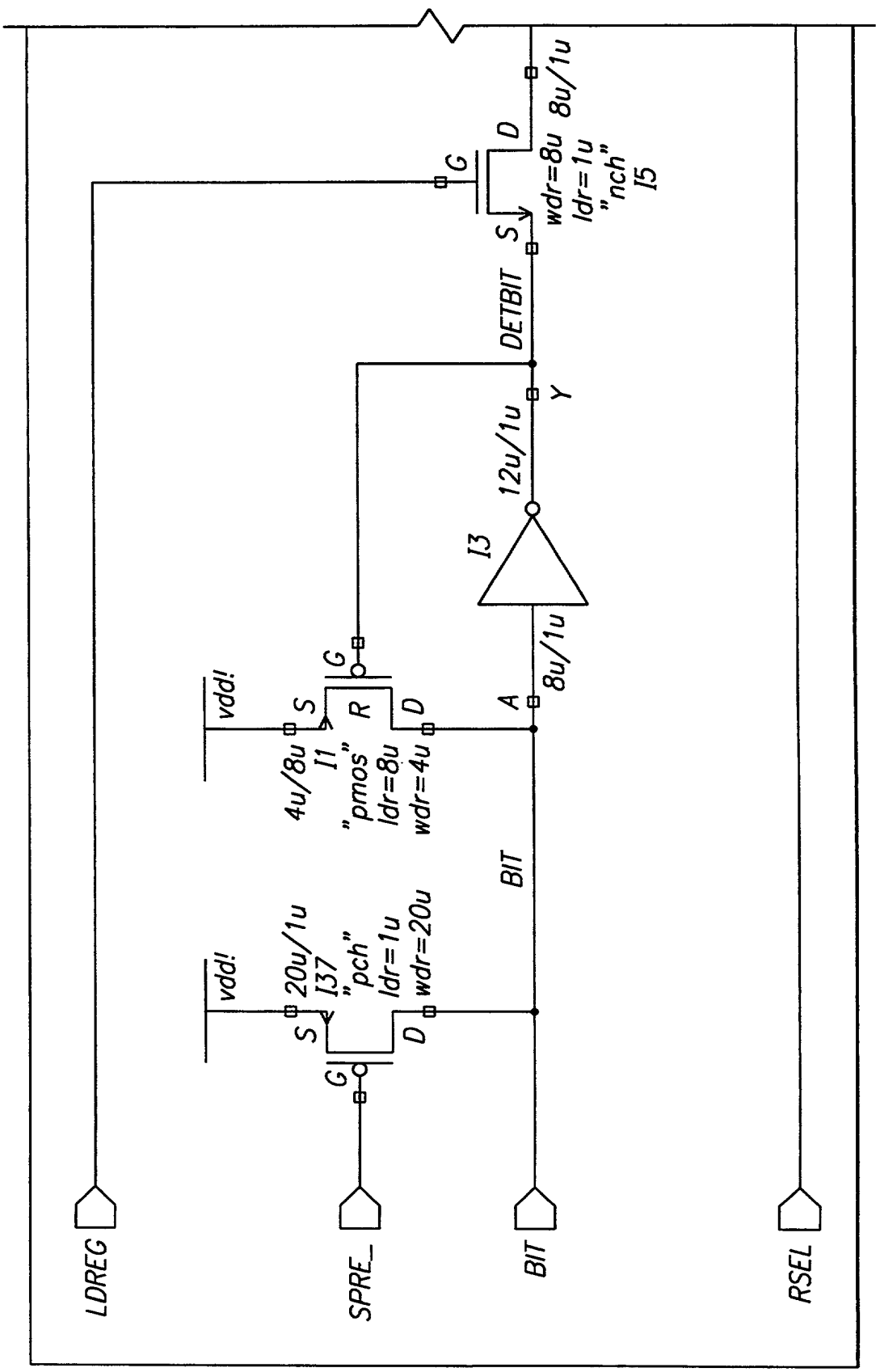
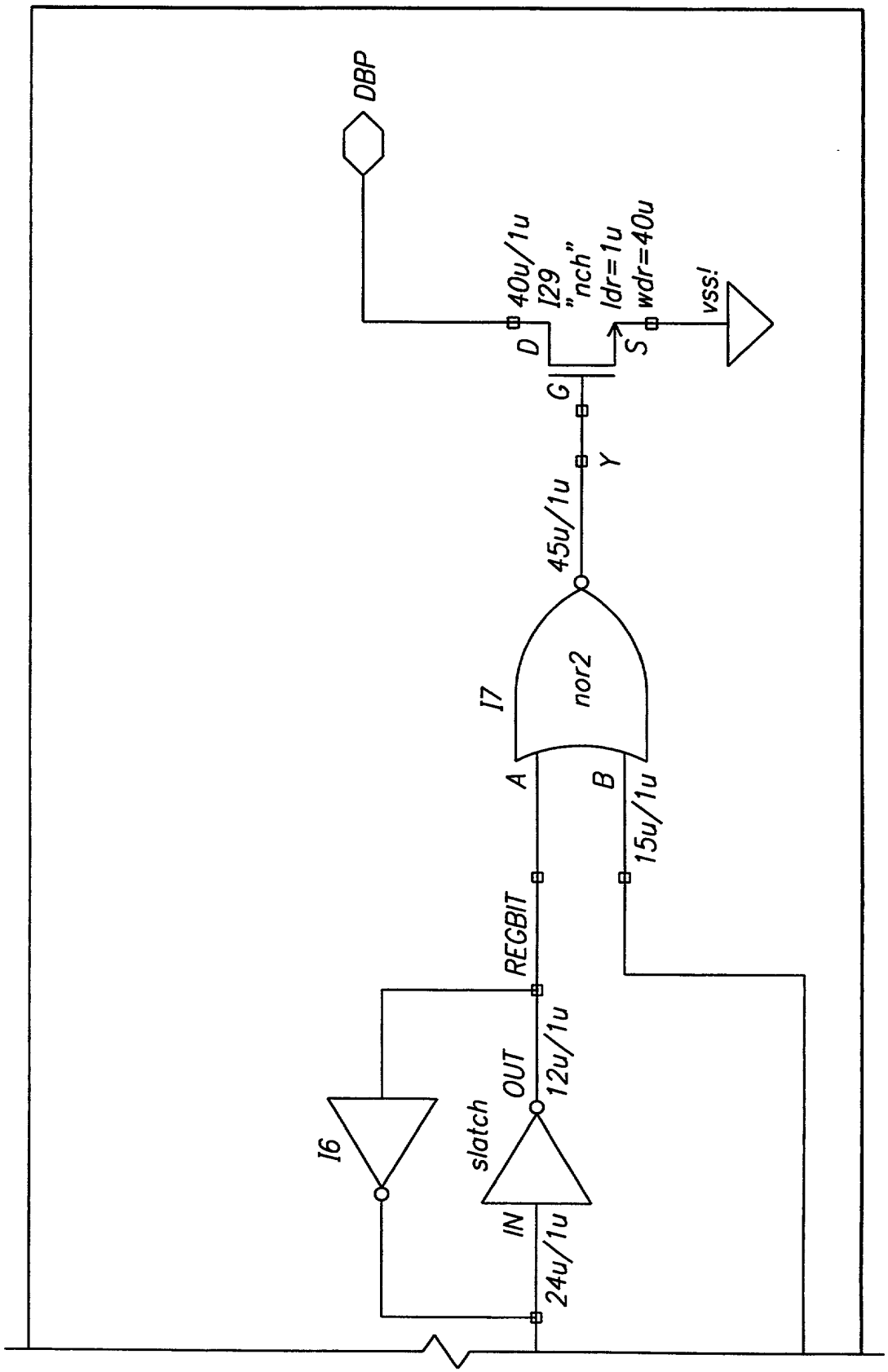


Fig 7.04071



Фиг. 1.004.0144

Patent 2502289



Фиг. 1.0470.1.AB

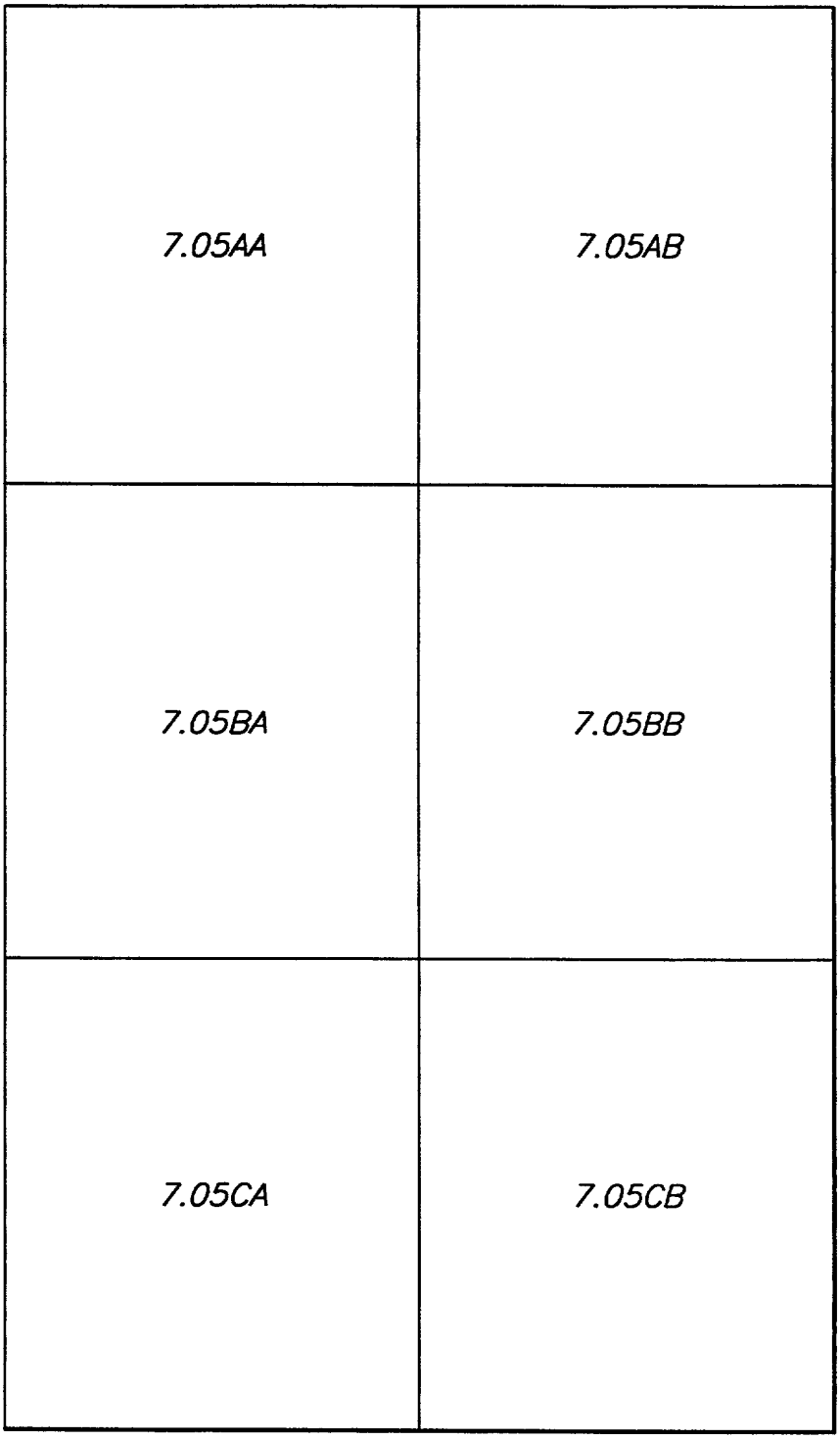


Fig 7.05

WO 95/14504 PCT/US94/13505

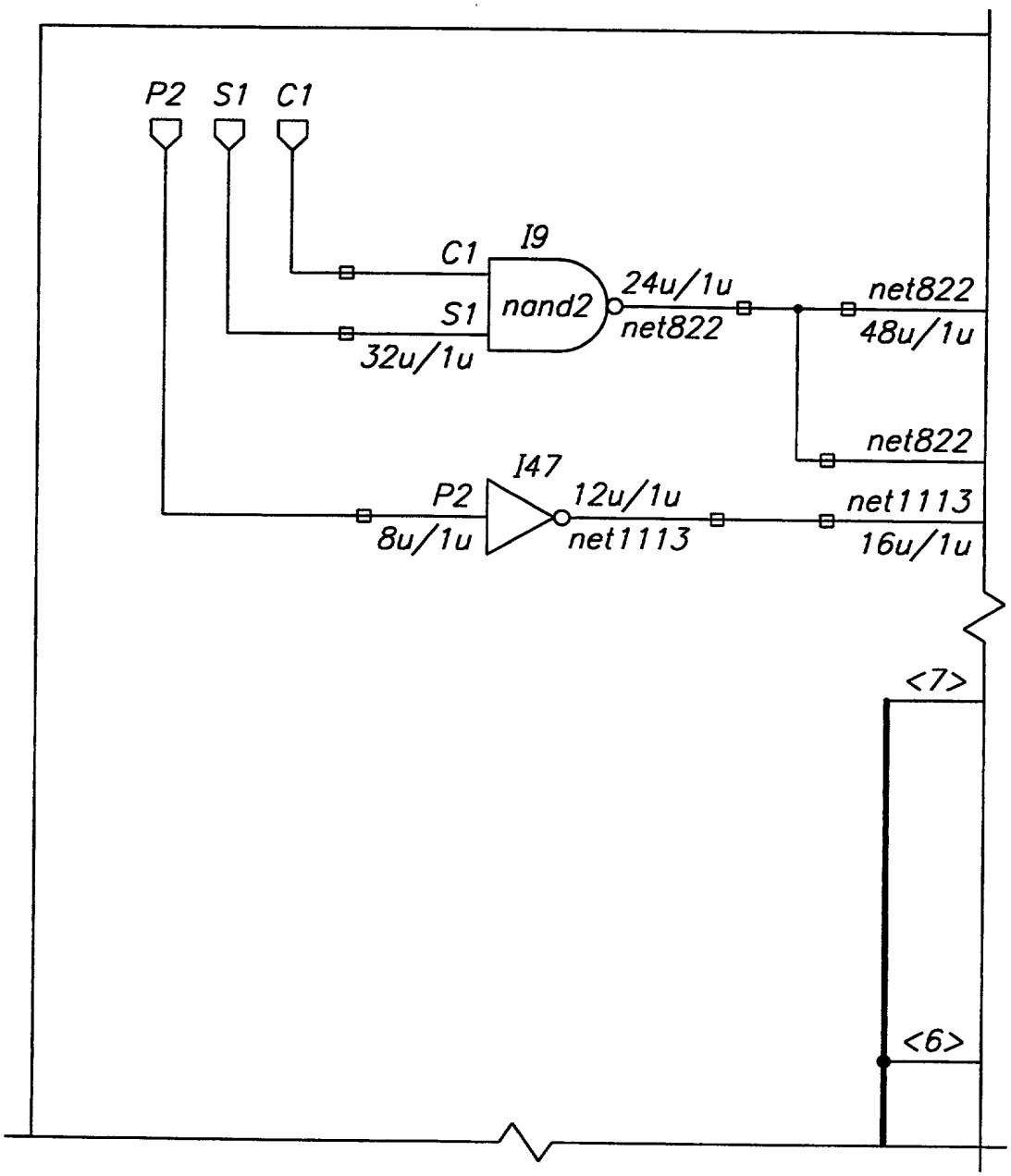

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C1
I9
C1
S1
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24u/1u
net822
32u/1u
net822
48u/1u
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I47
P2
12u/1u
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8u/1u
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Fig 1.05AA

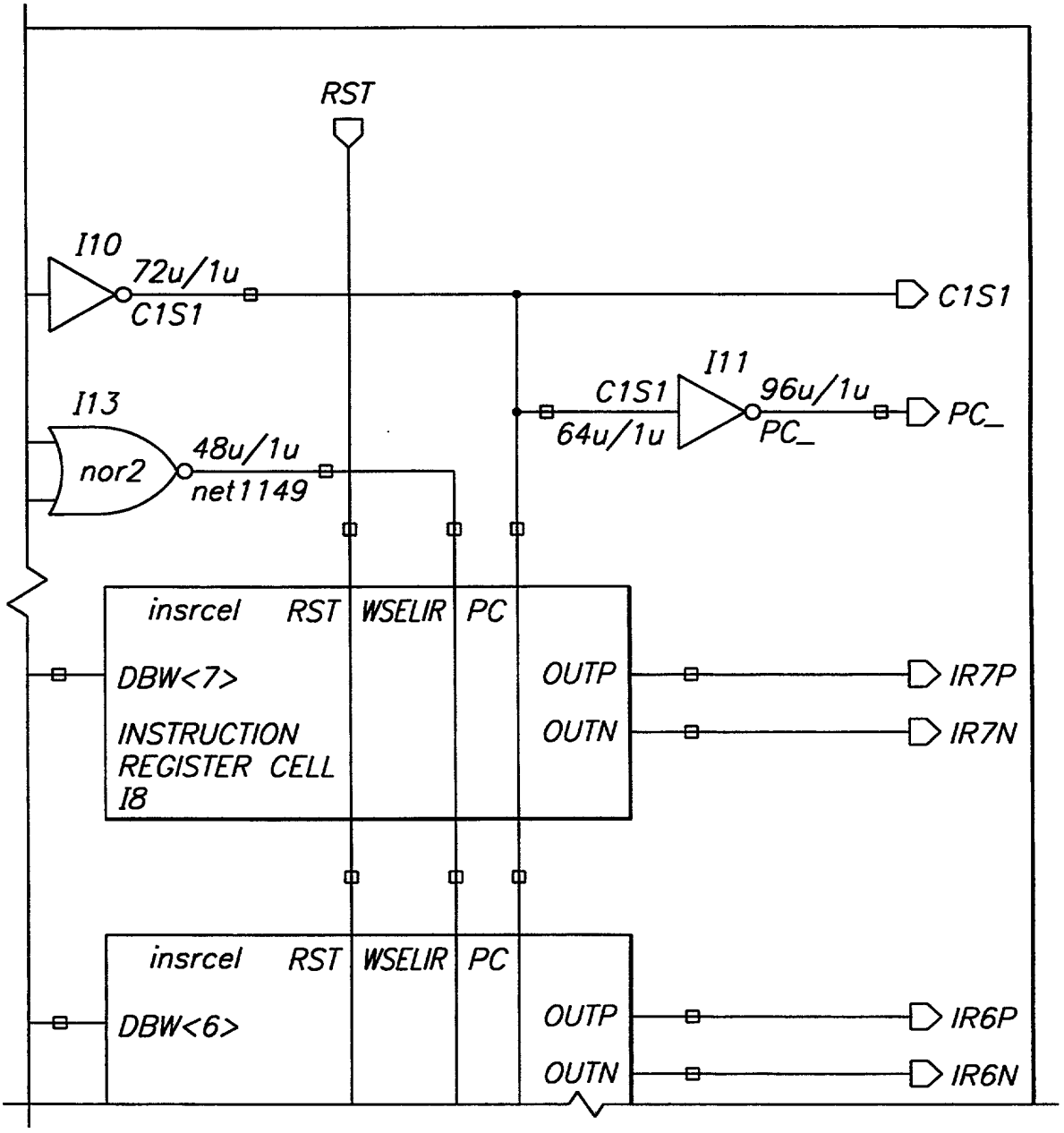

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I10
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C1S1
C1S1
I11
C1S1
96u/1u
64u/1u
PC_
PC_
I13
nor2
48u/1u
net1149
insrcel
RST
WSELIR
PC
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REGISTER CELL
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OUTN
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OUTN
IR6P
IR6N

Fig 7.05AB

Patent-5501266

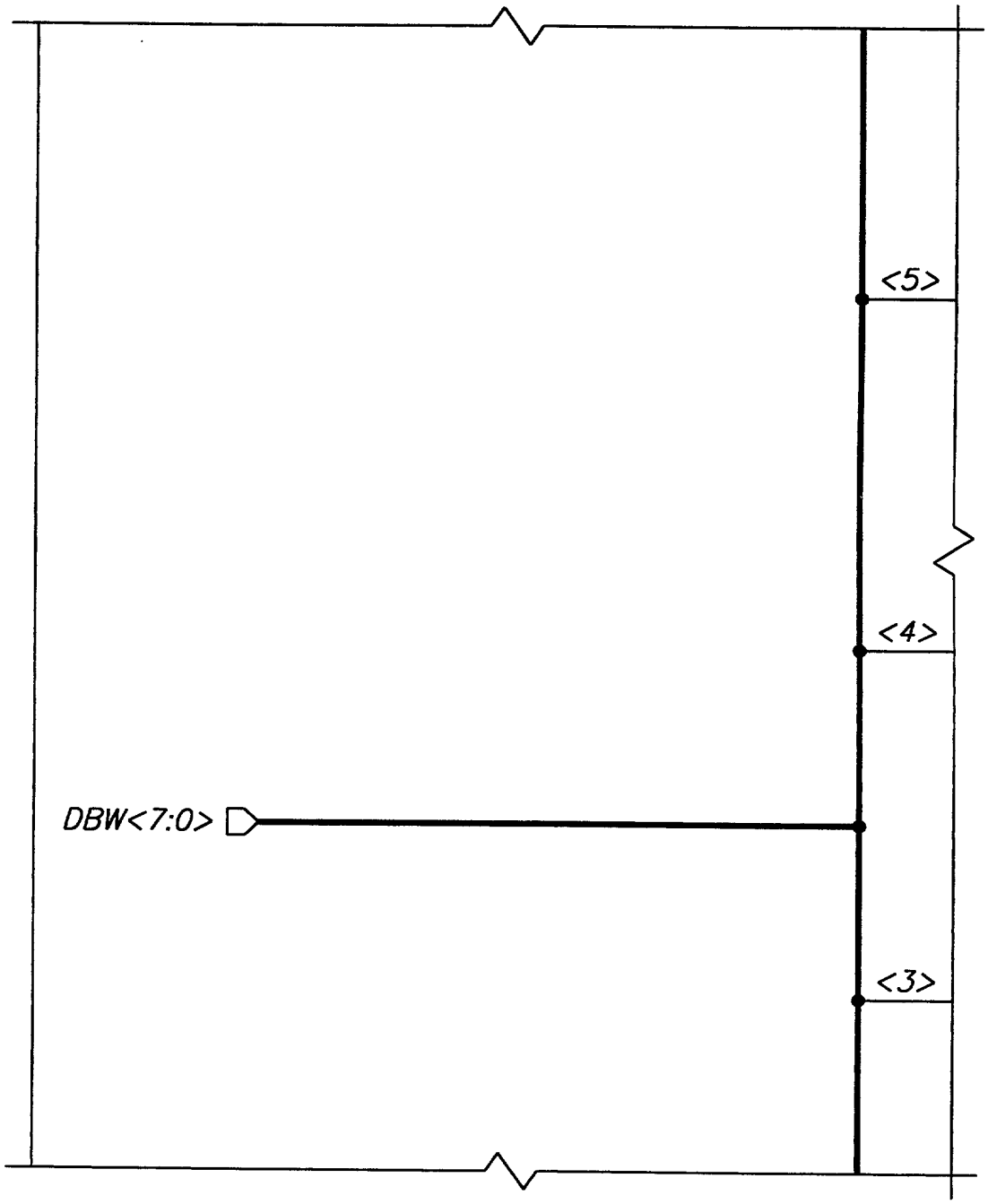


Fig 7.05BA

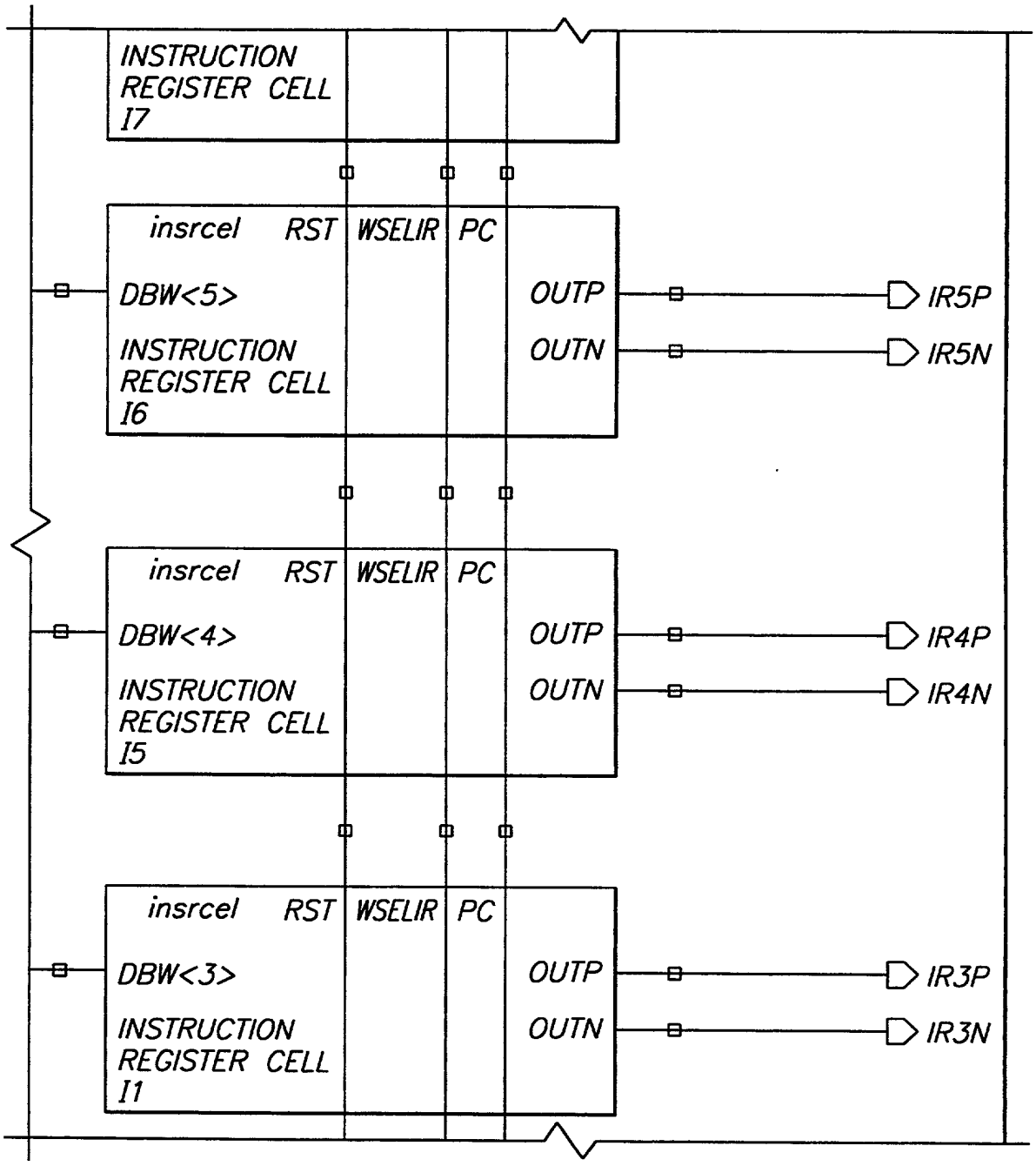

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PC
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INSTRUCTION REGISTER CELL I6
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OUTN
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IR5N
insrcel
RST
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PC
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OUTP
OUTN
IR4P
IR4N
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PC
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OUTP
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IR3P
IR3N

Fig 1.0558BB

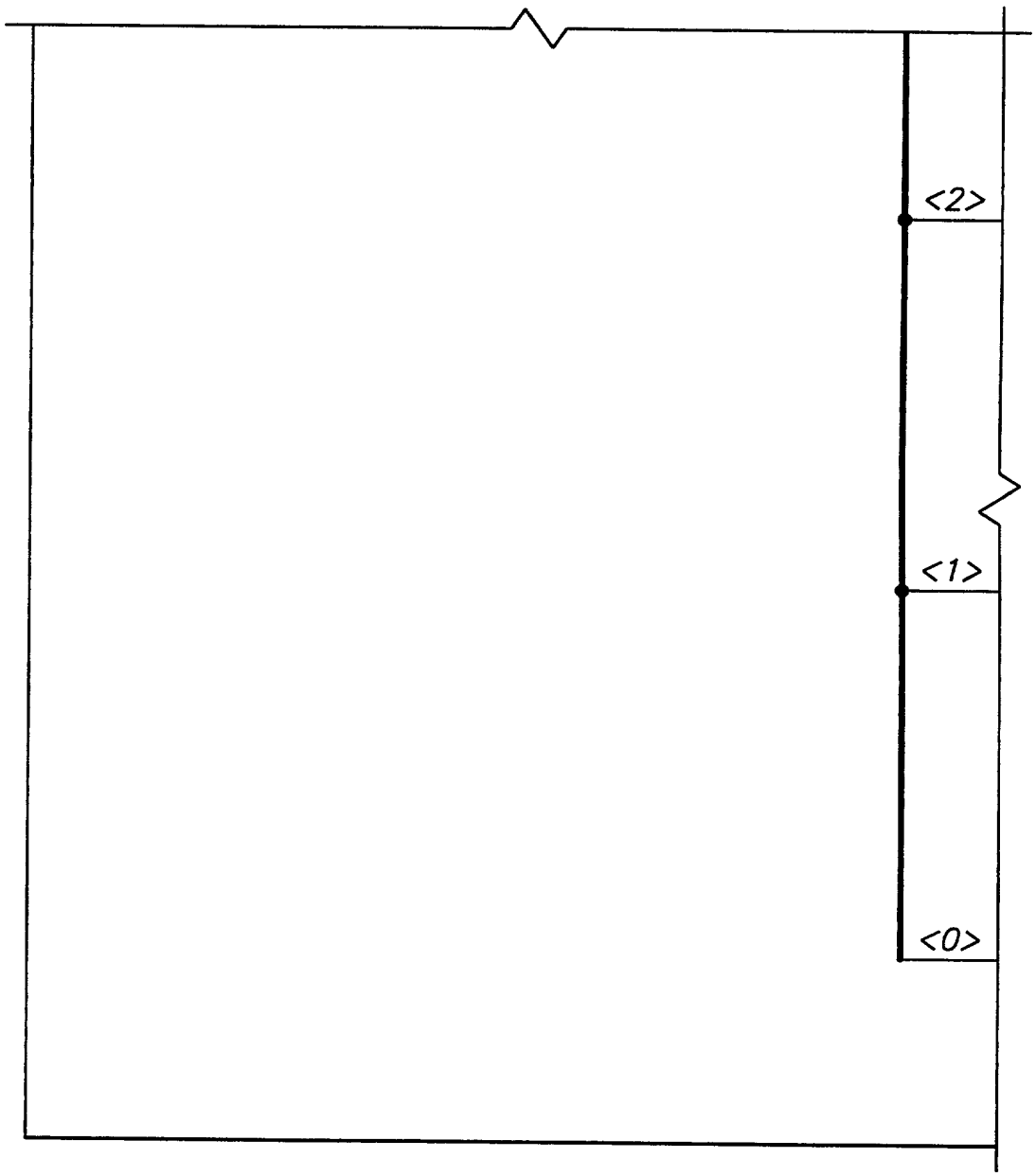


Fig 1.05CA

US 6,954,364 B2

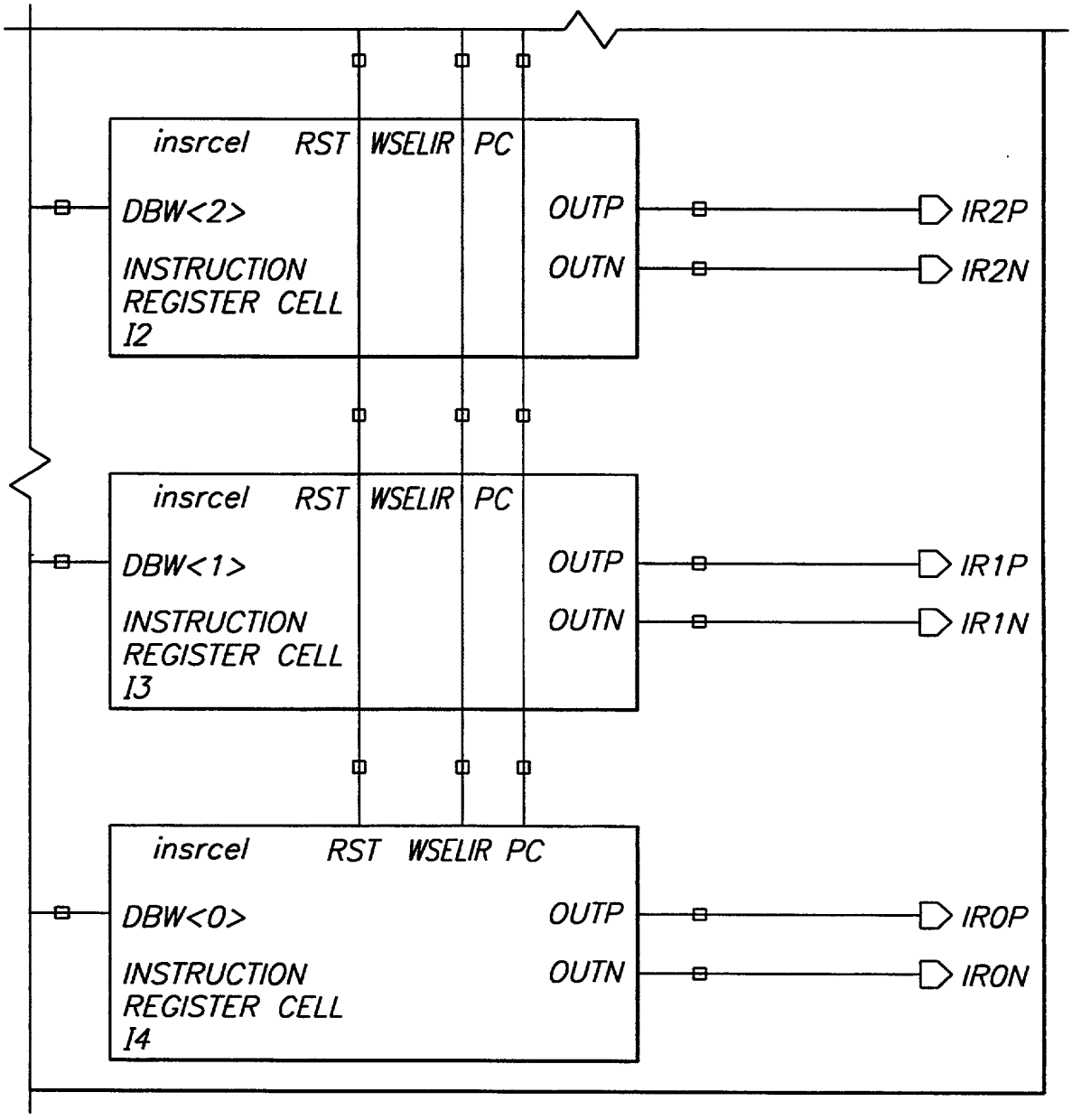

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DBW<2>
INSTRUCTION REGISTER CELL I2
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OUTN
IR2P
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DBW<1>
INSTRUCTION REGISTER CELL I3
OUTP
OUTN
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IR1N
insrcel RST WSELIR PC
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IR0N

Fig 1.05CB

1014593 - 05/22/95

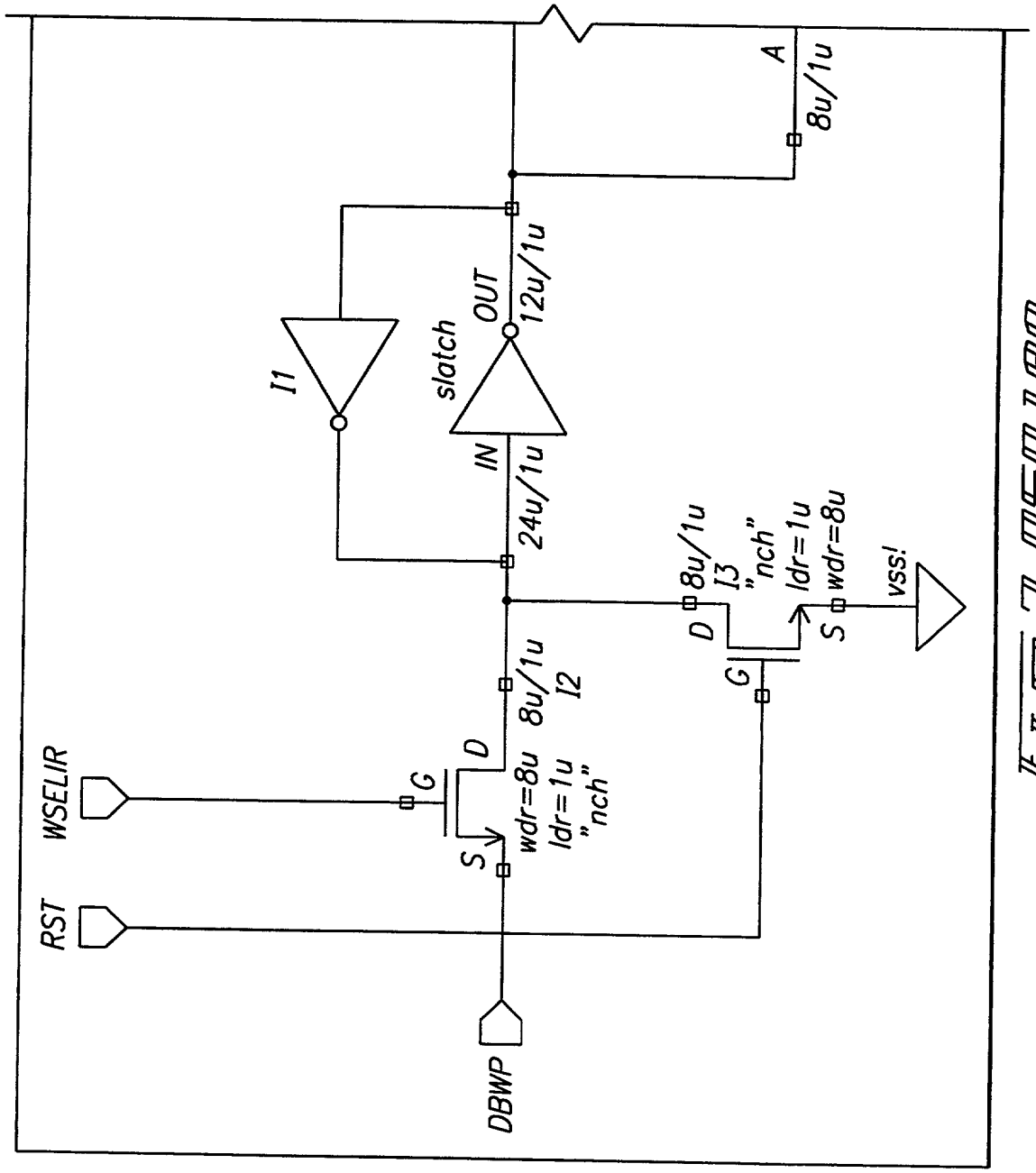
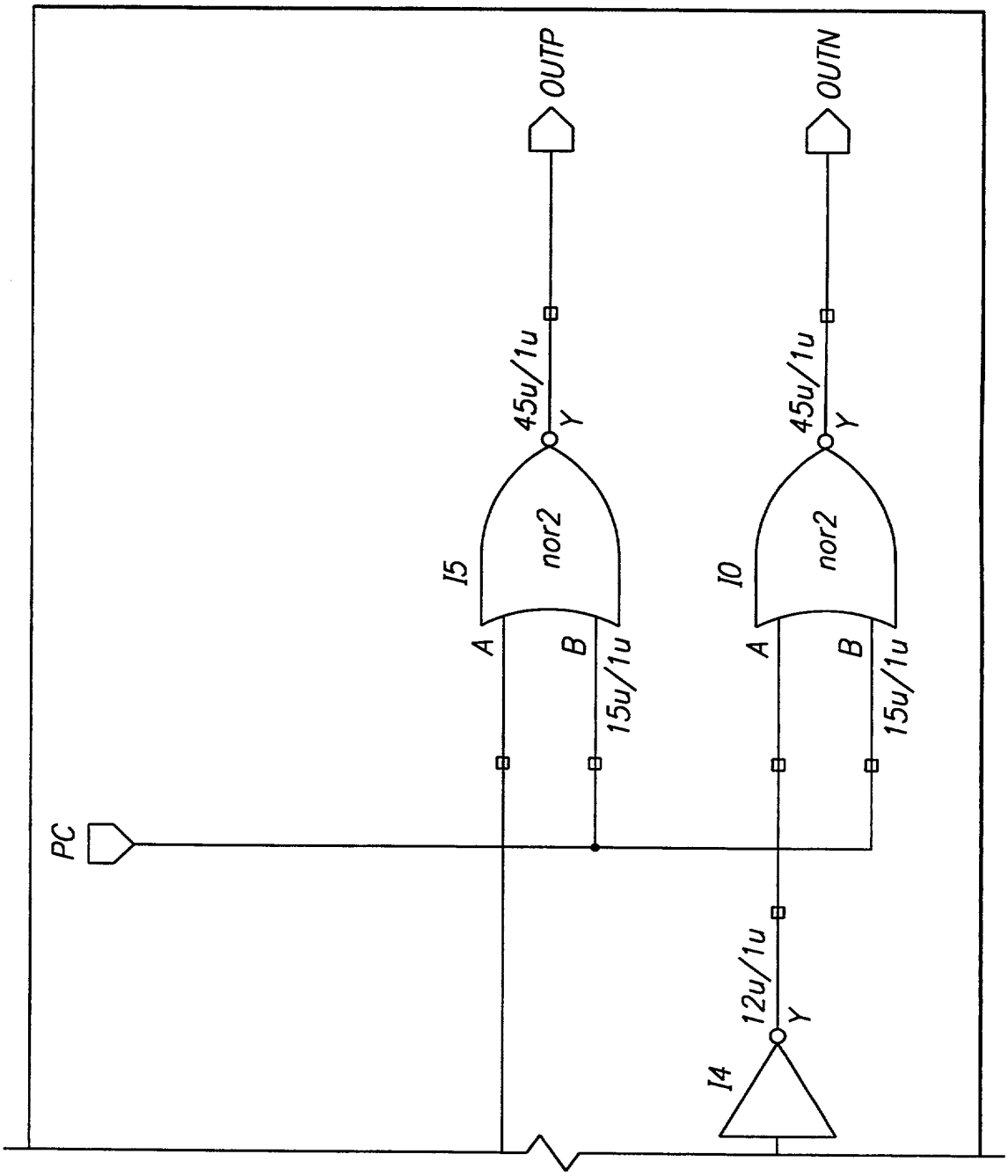


Fig. 1 CMOS 0.5µm



Фиг 1.0500.1.AB

Tuesday, 05/12/2009 09:11:19 PM

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	7.06BB	7.06BC	7.06BD	7.06BE	7.06BF	7.06BG	7.06BH	7.06BI	7.06BJ	7.06BK	7.06BL	7.06BM	7.06BN
7.06CA	7.06CB	7.06CC	7.06CD	7.06CE	7.06CF	7.06CG	7.06CH	7.06CI	7.06CJ	7.06CK	7.06CL	7.06CM	7.06CN

Fig 7.06

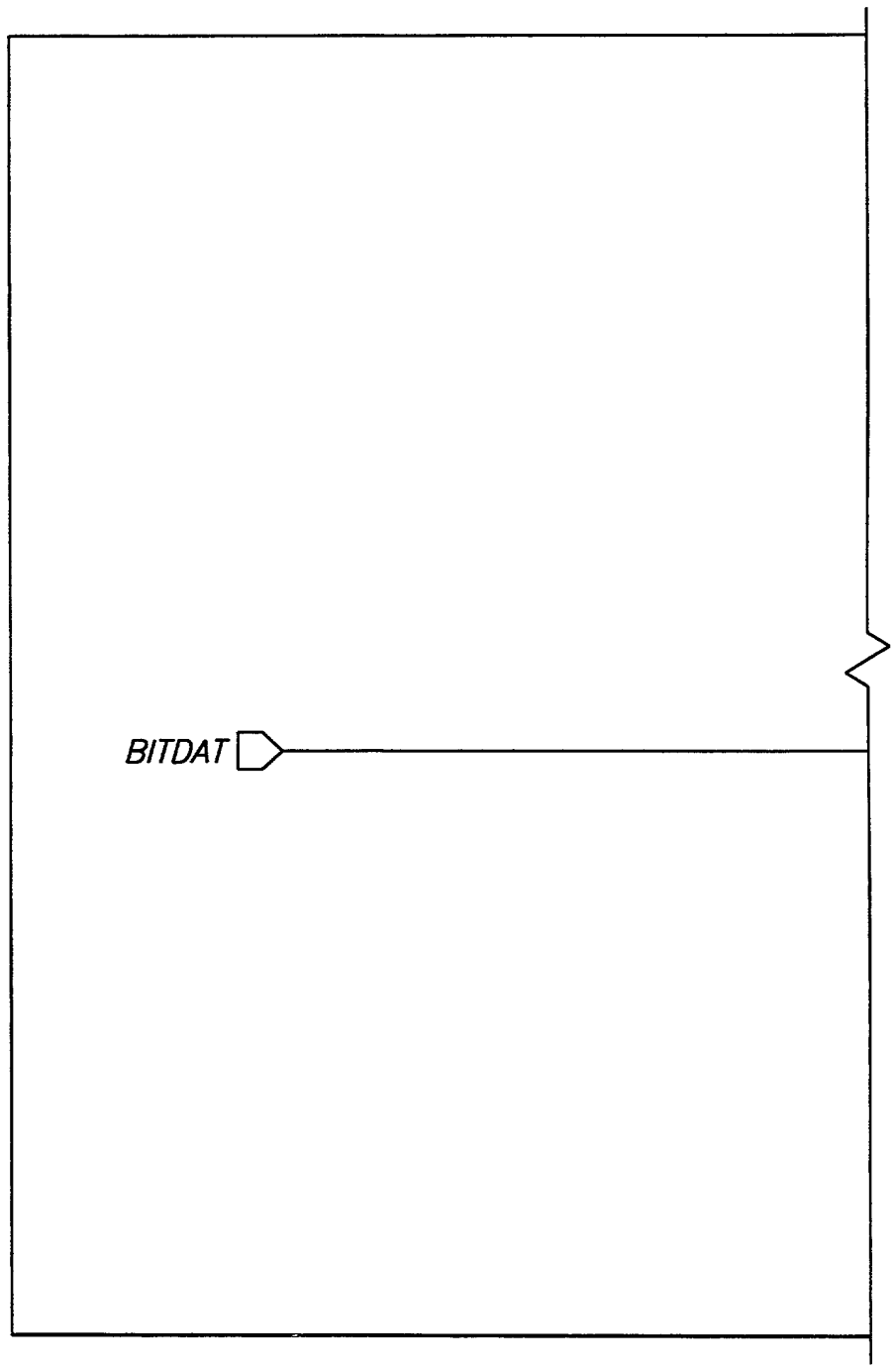


Fig 1.06AA

HP-1995-05452595

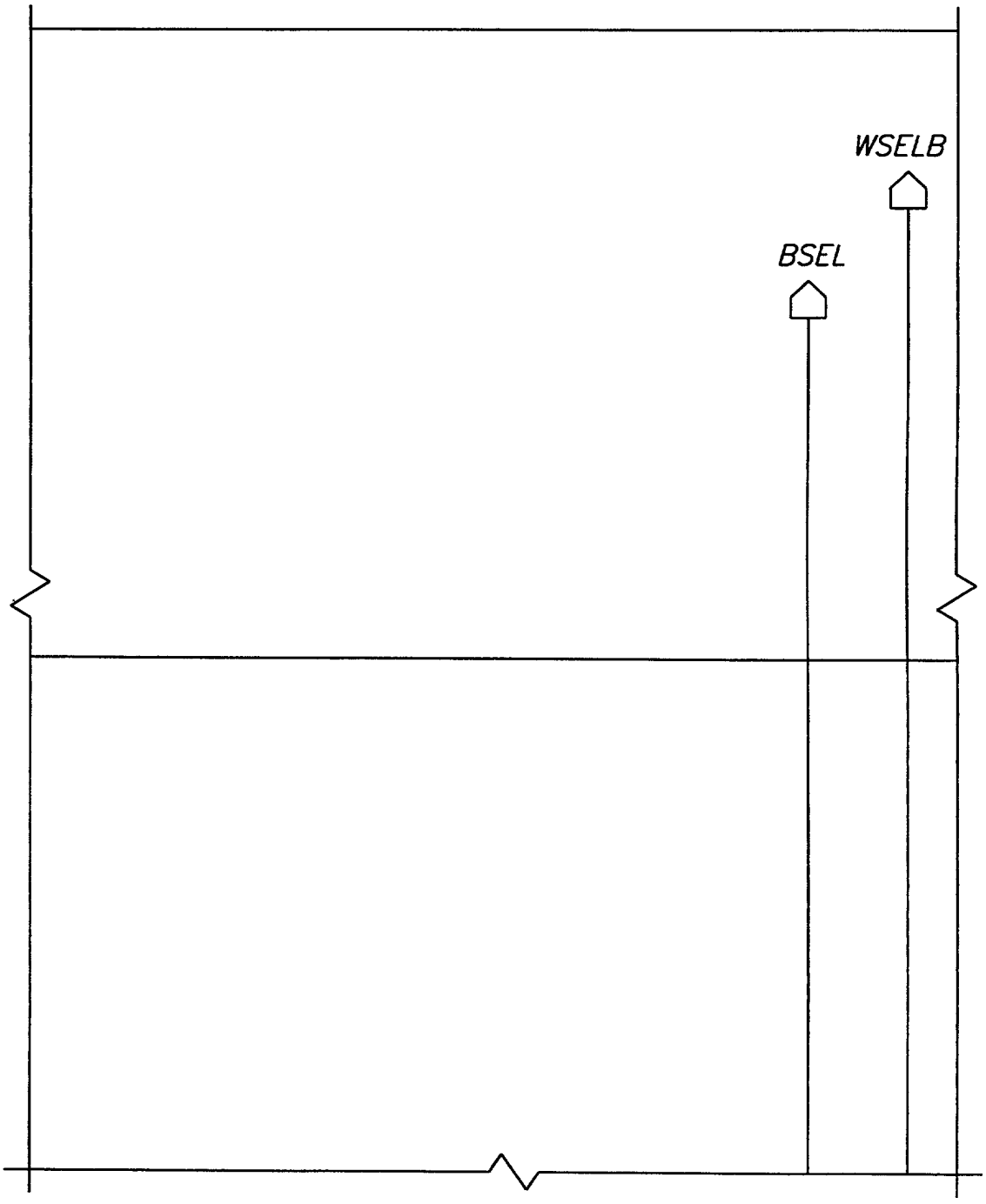


Fig 1.06AB

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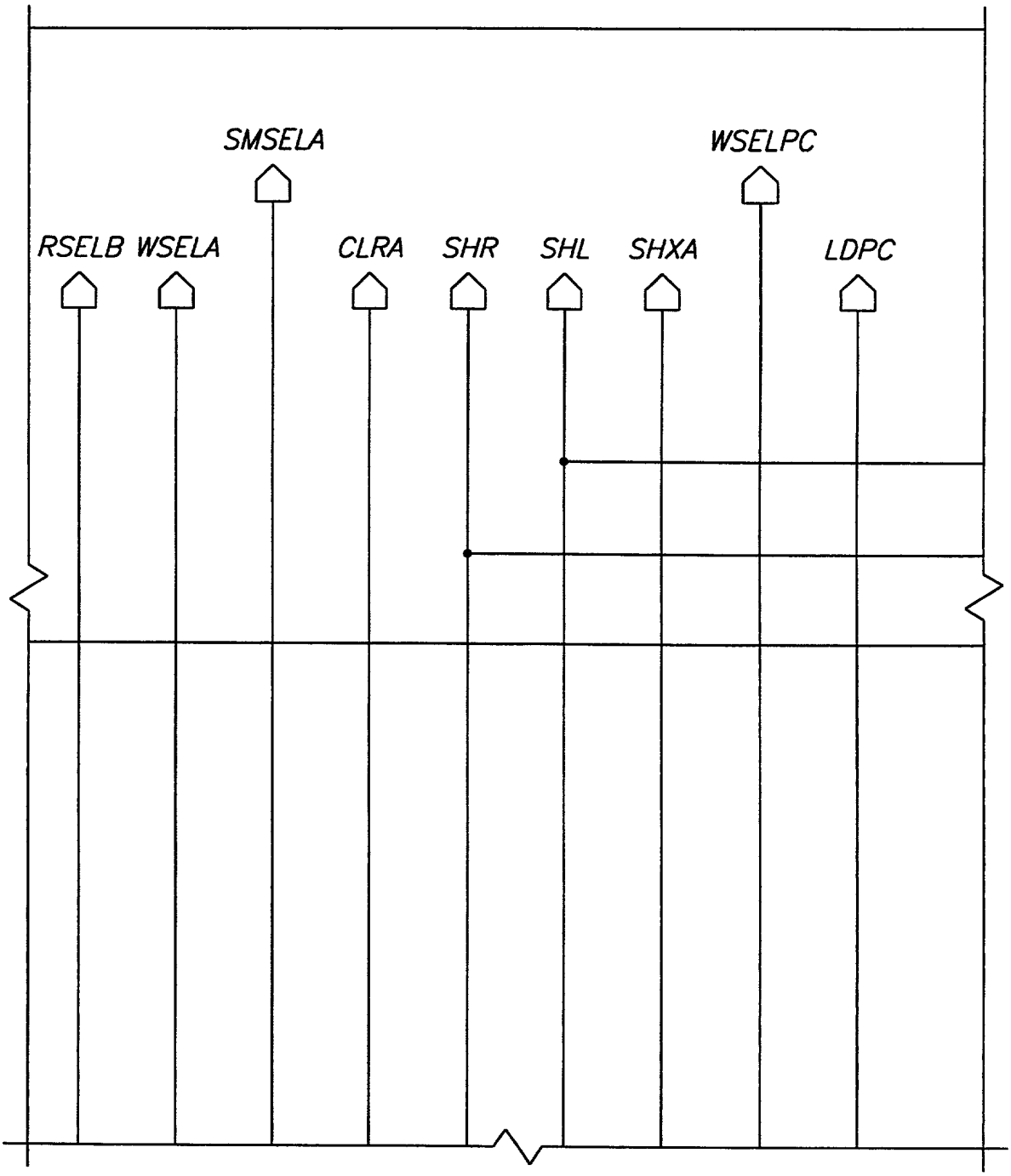


Fig 1.06AC

TOSHIBA-0052626

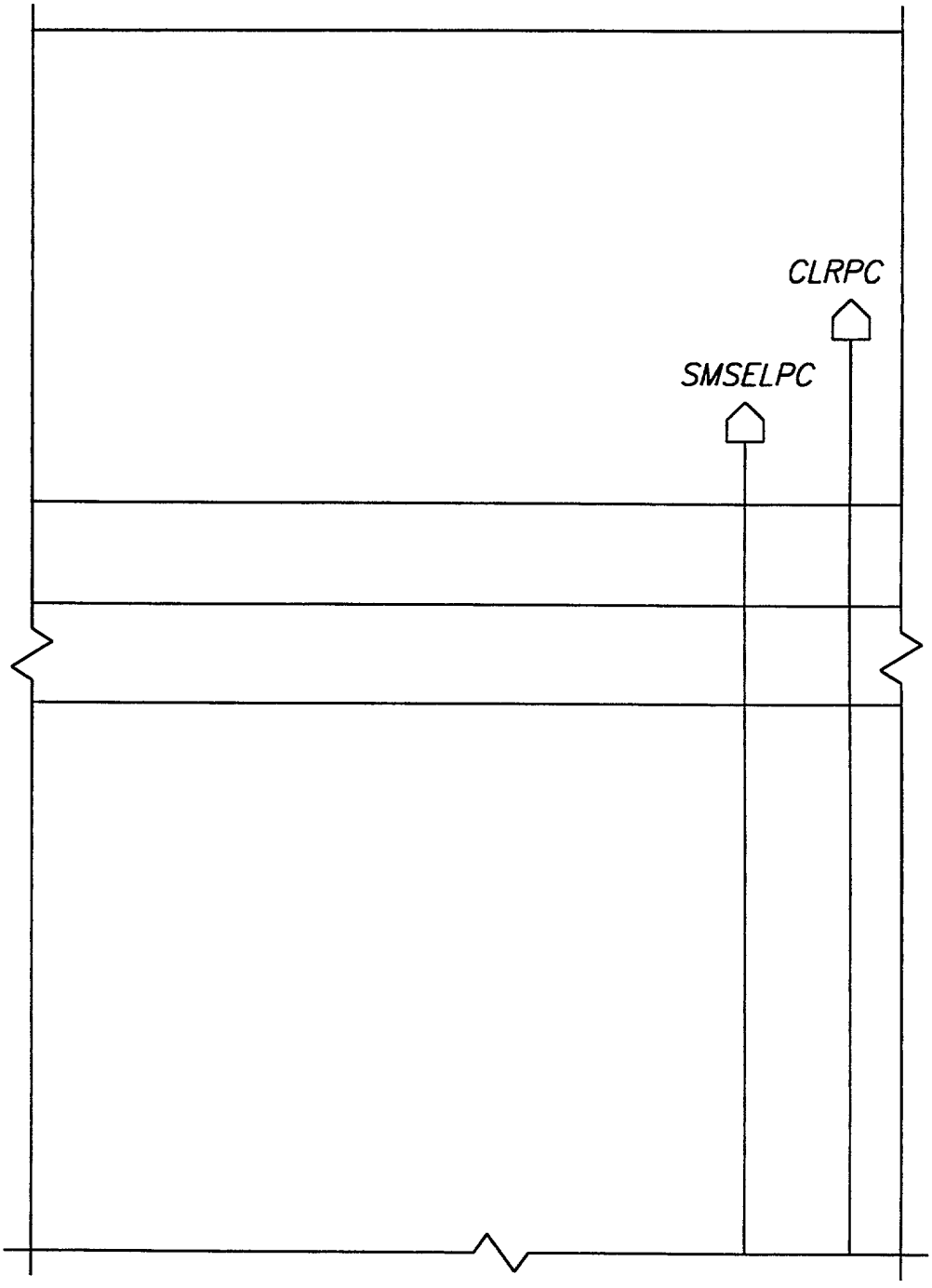


FIG 7.0BAD

Privileged and Confidential

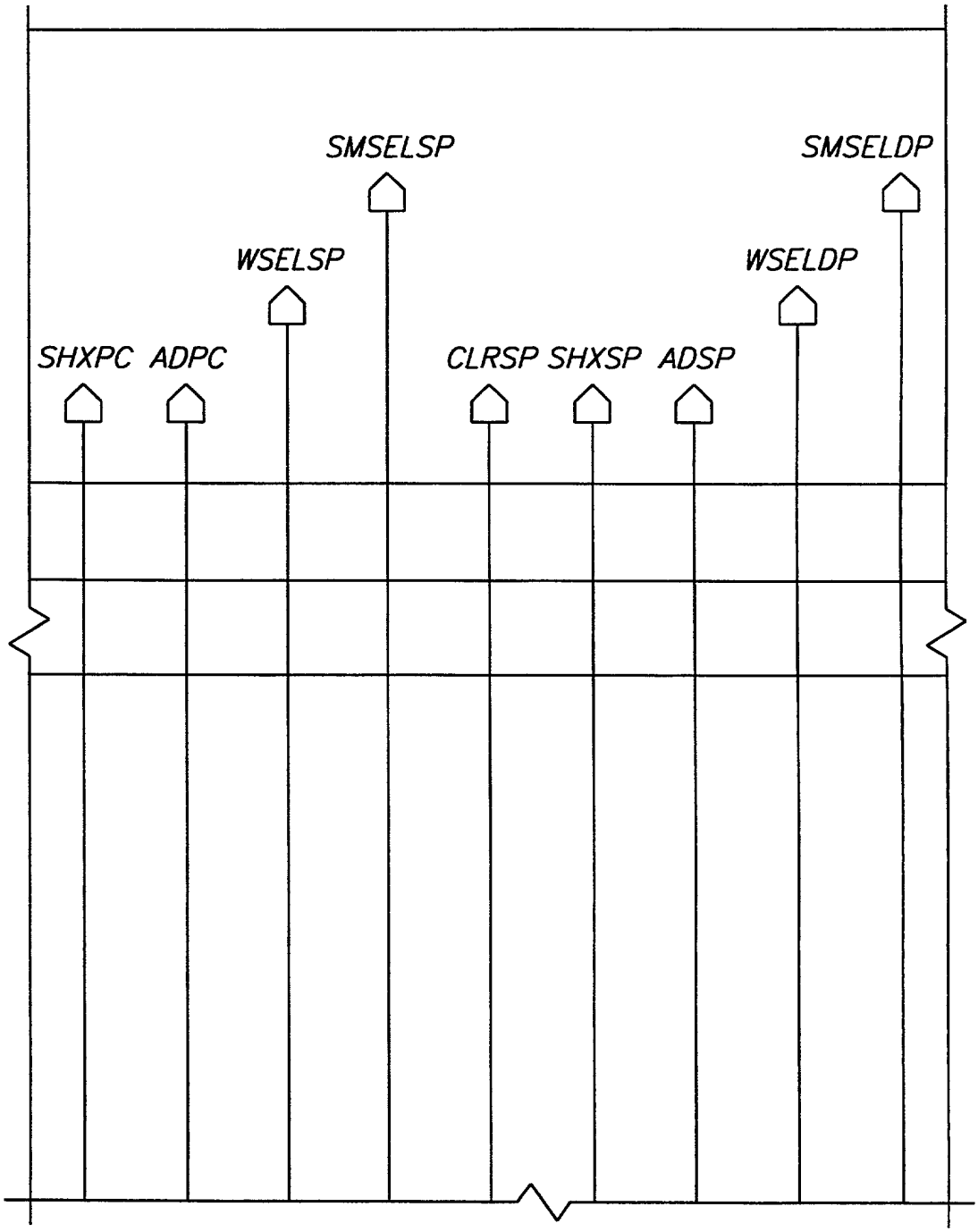


Fig 7.06AE

0568205 - 05/12/04

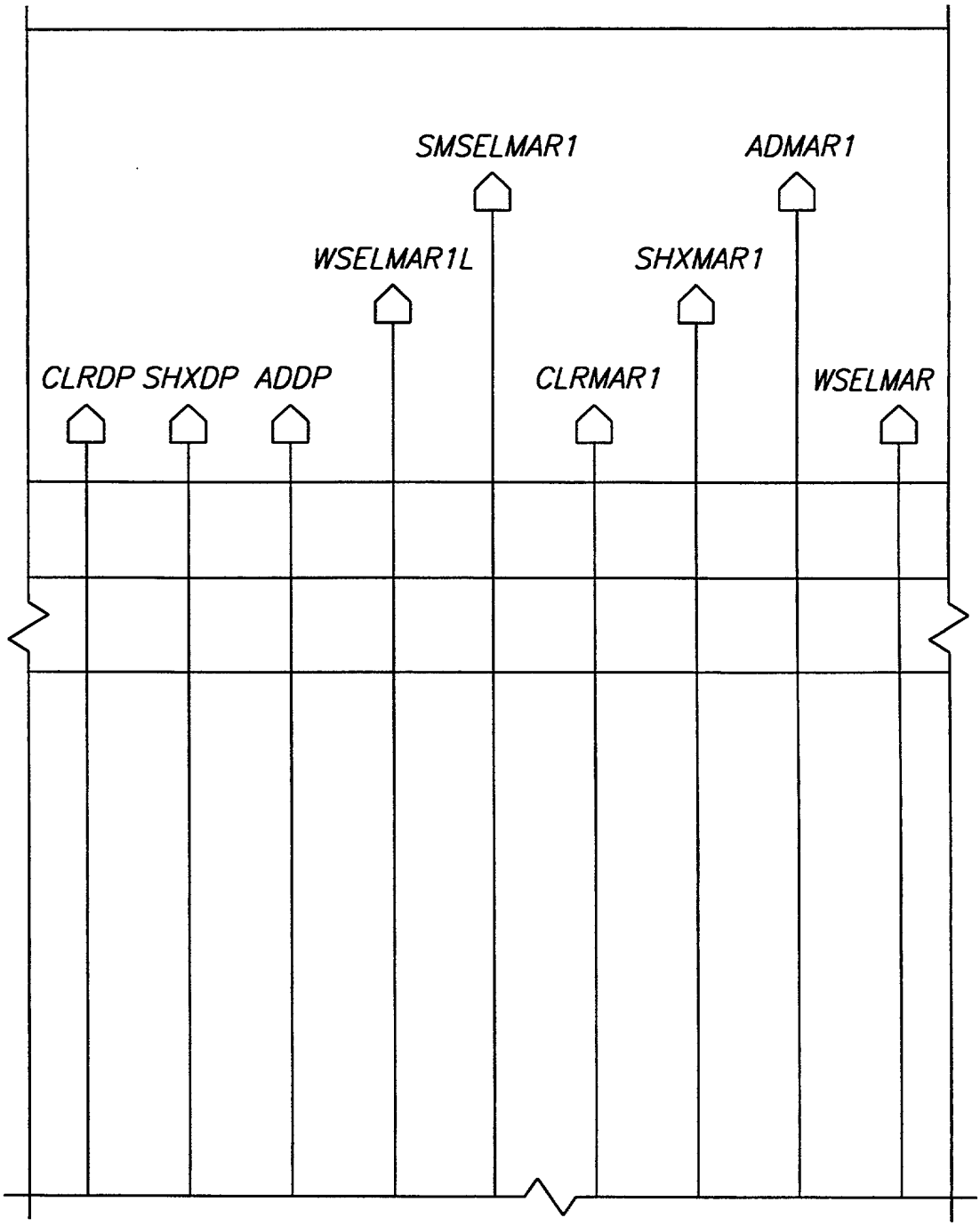


Fig 1.06AF

Patent Searcher

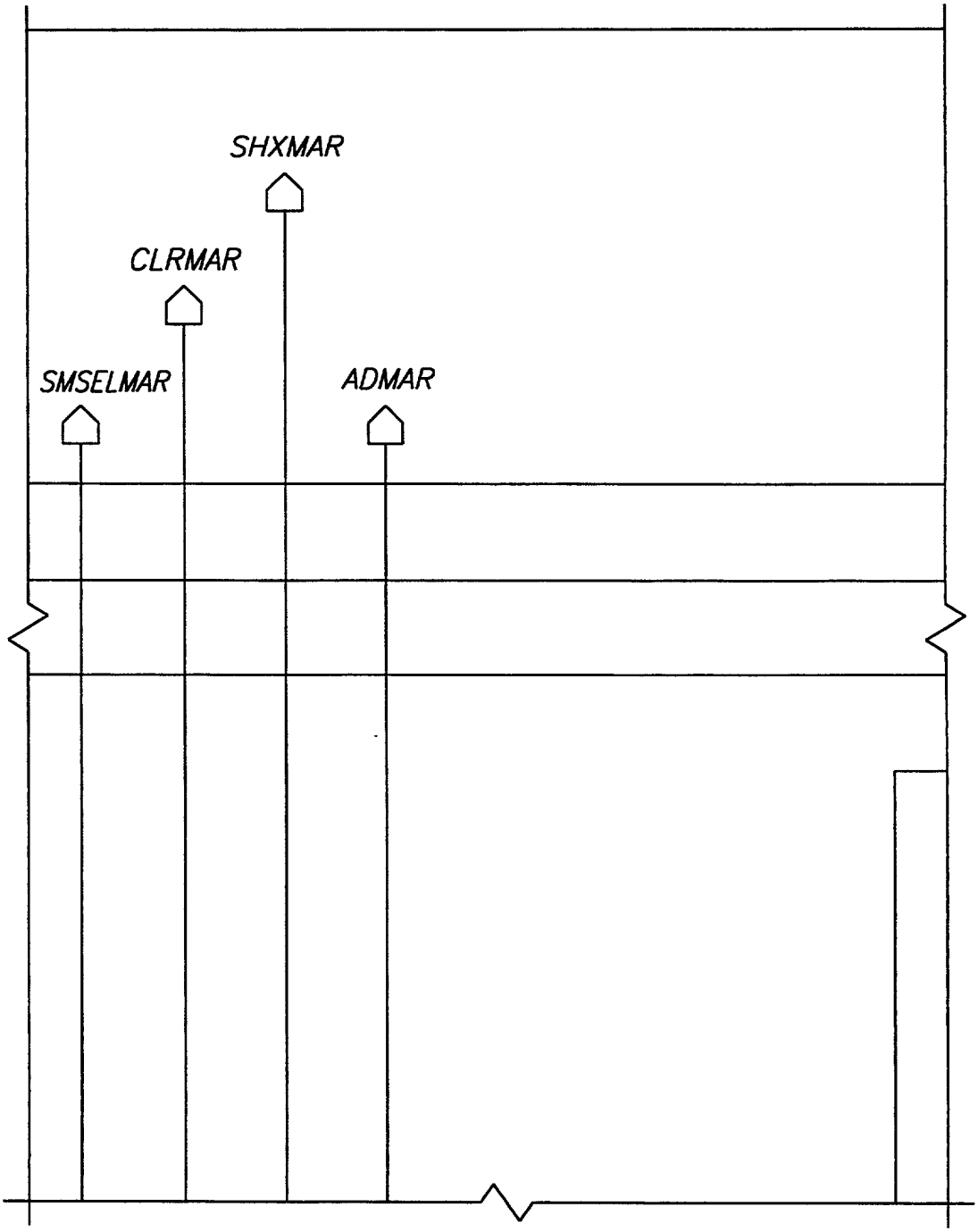
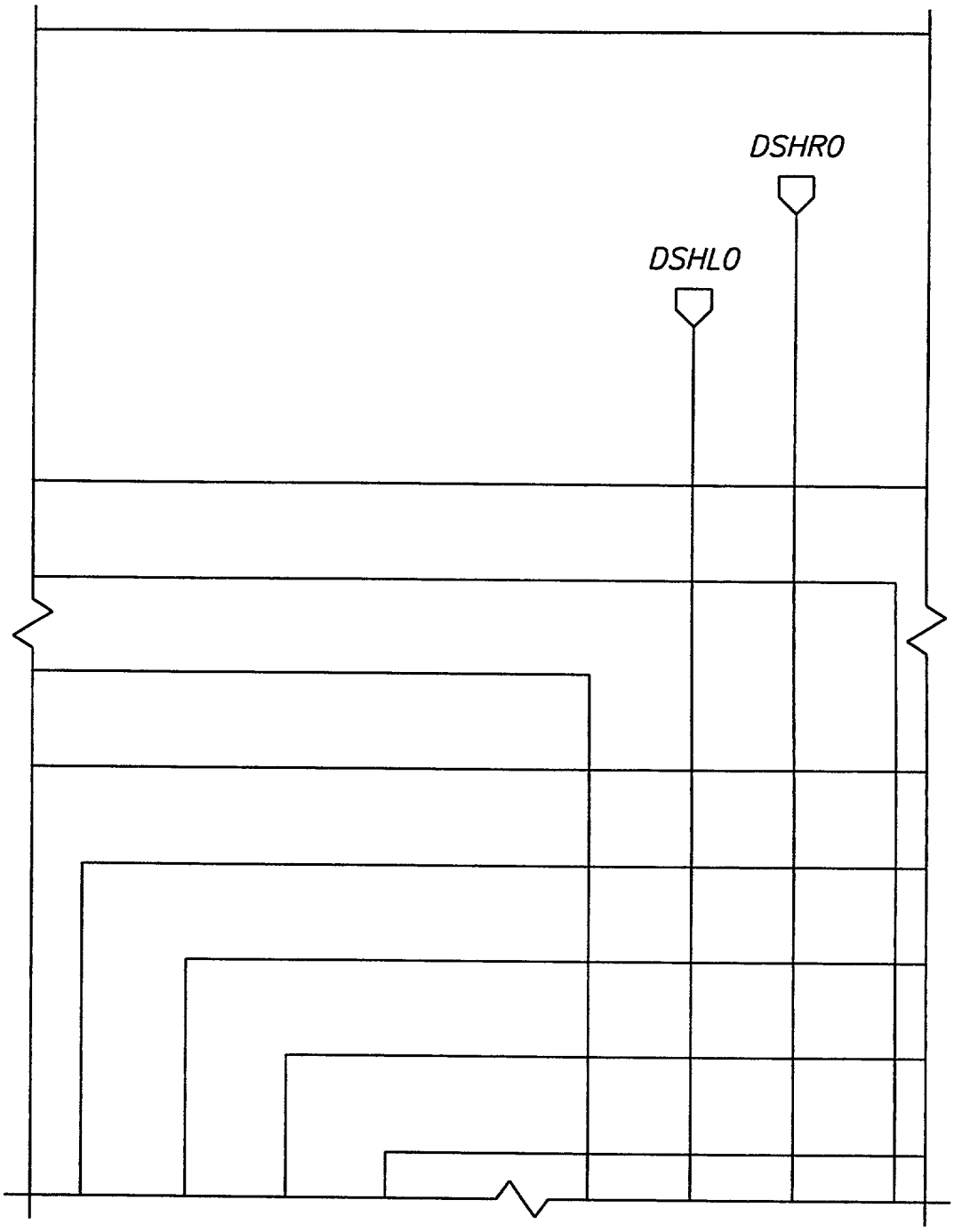


Fig 1.0640



Фиг 1.06АН

Patent application publication

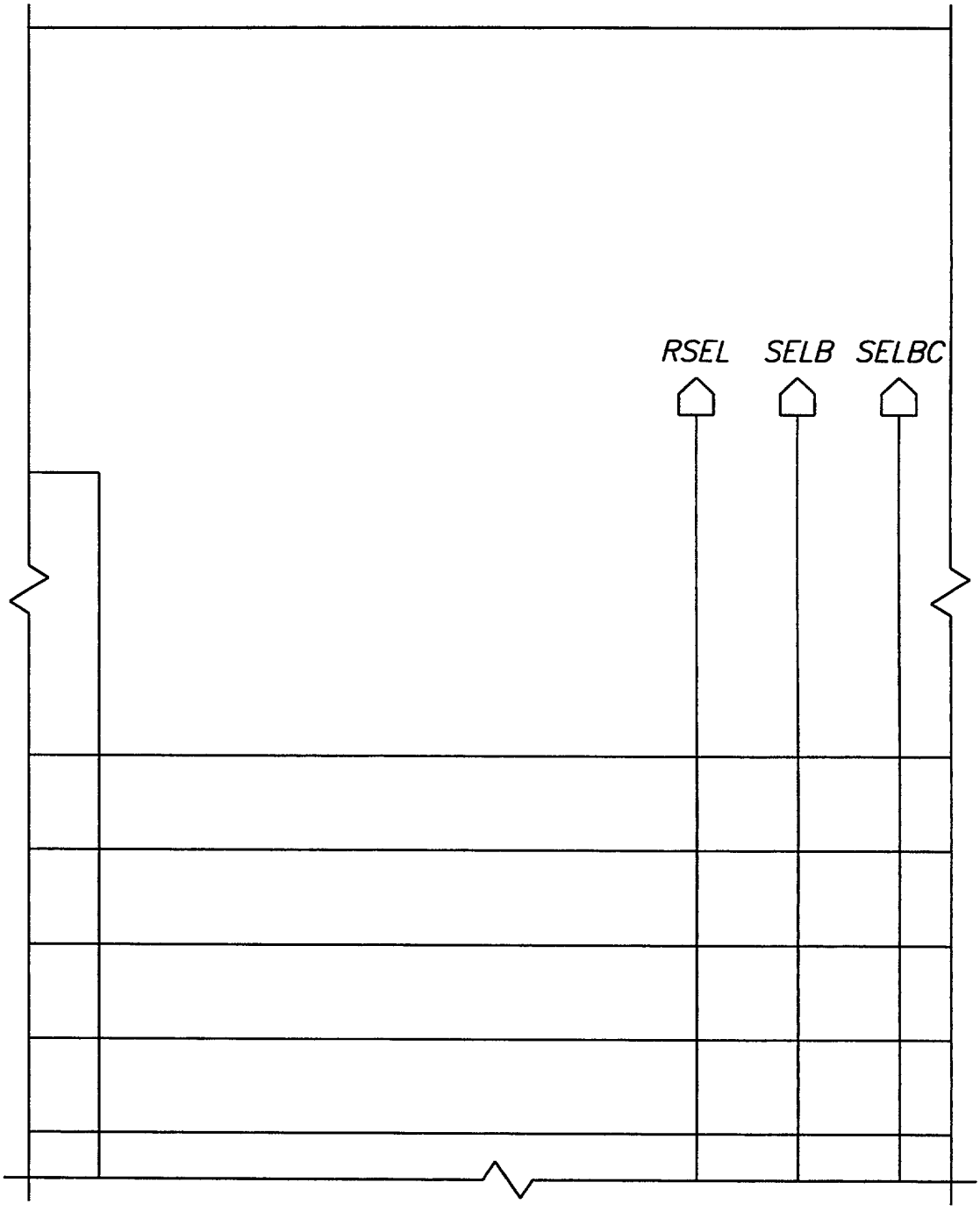


Fig 1.06AII

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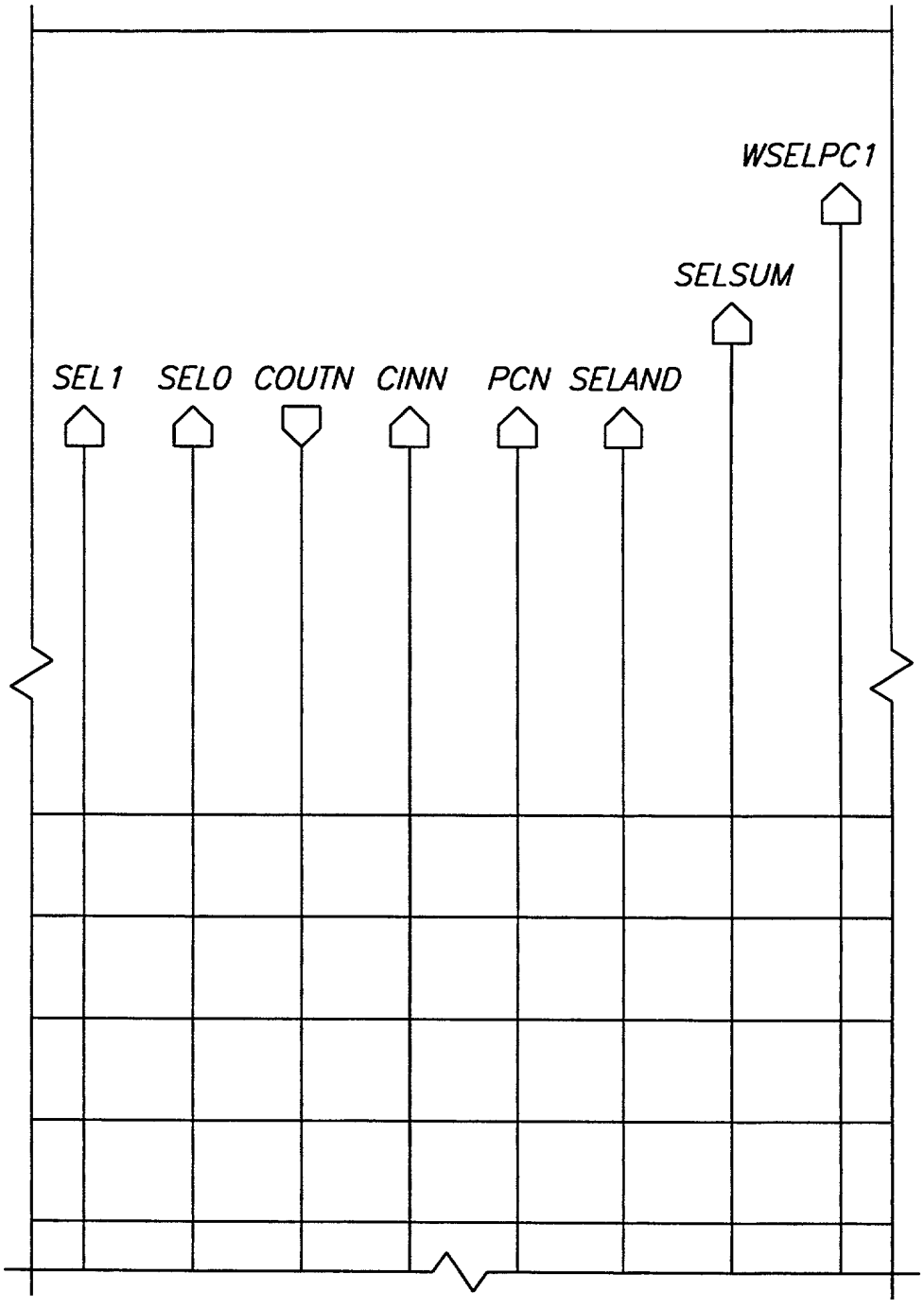


Fig 1.06Aa

0017450 - 05/12/95

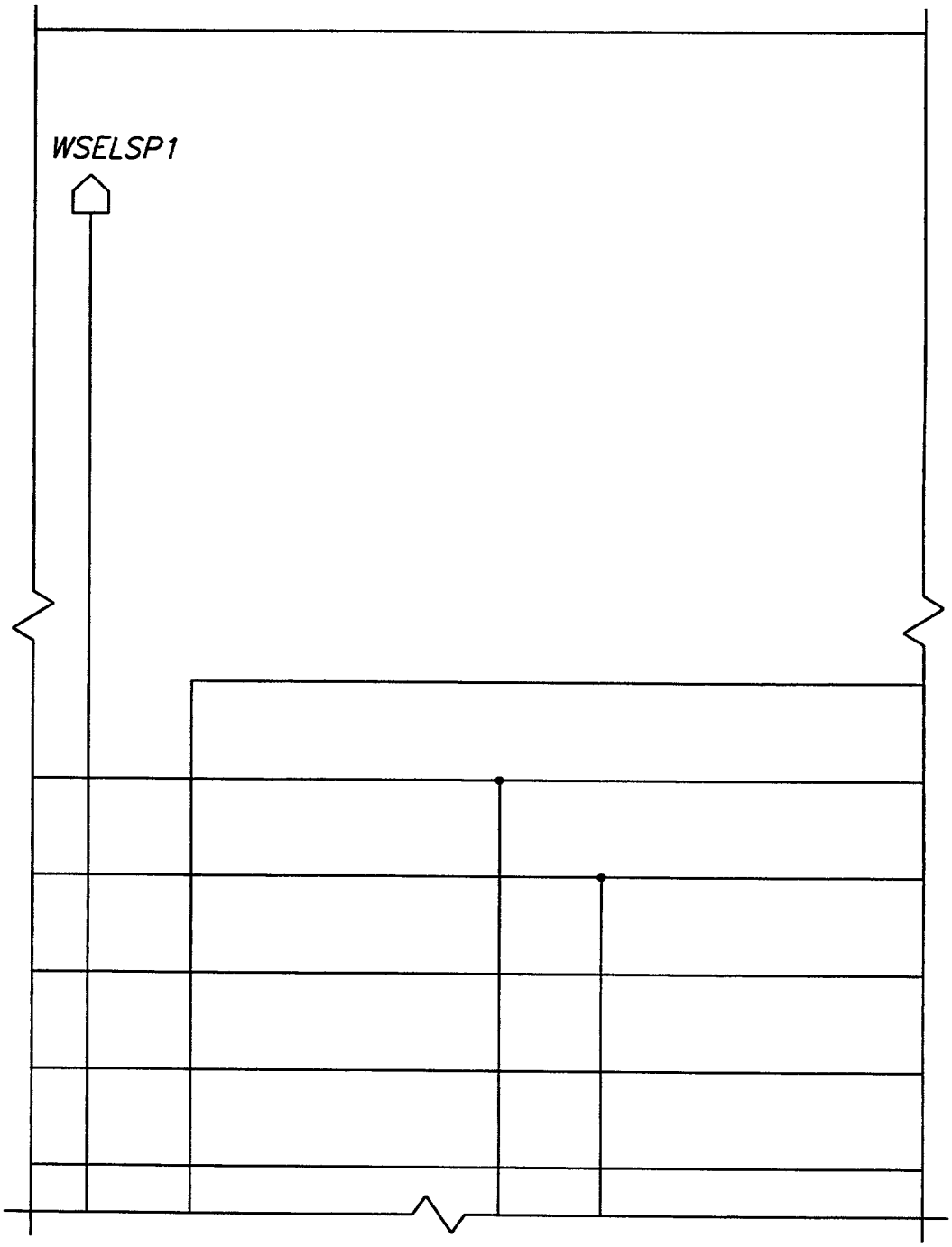


Fig 1.06AK

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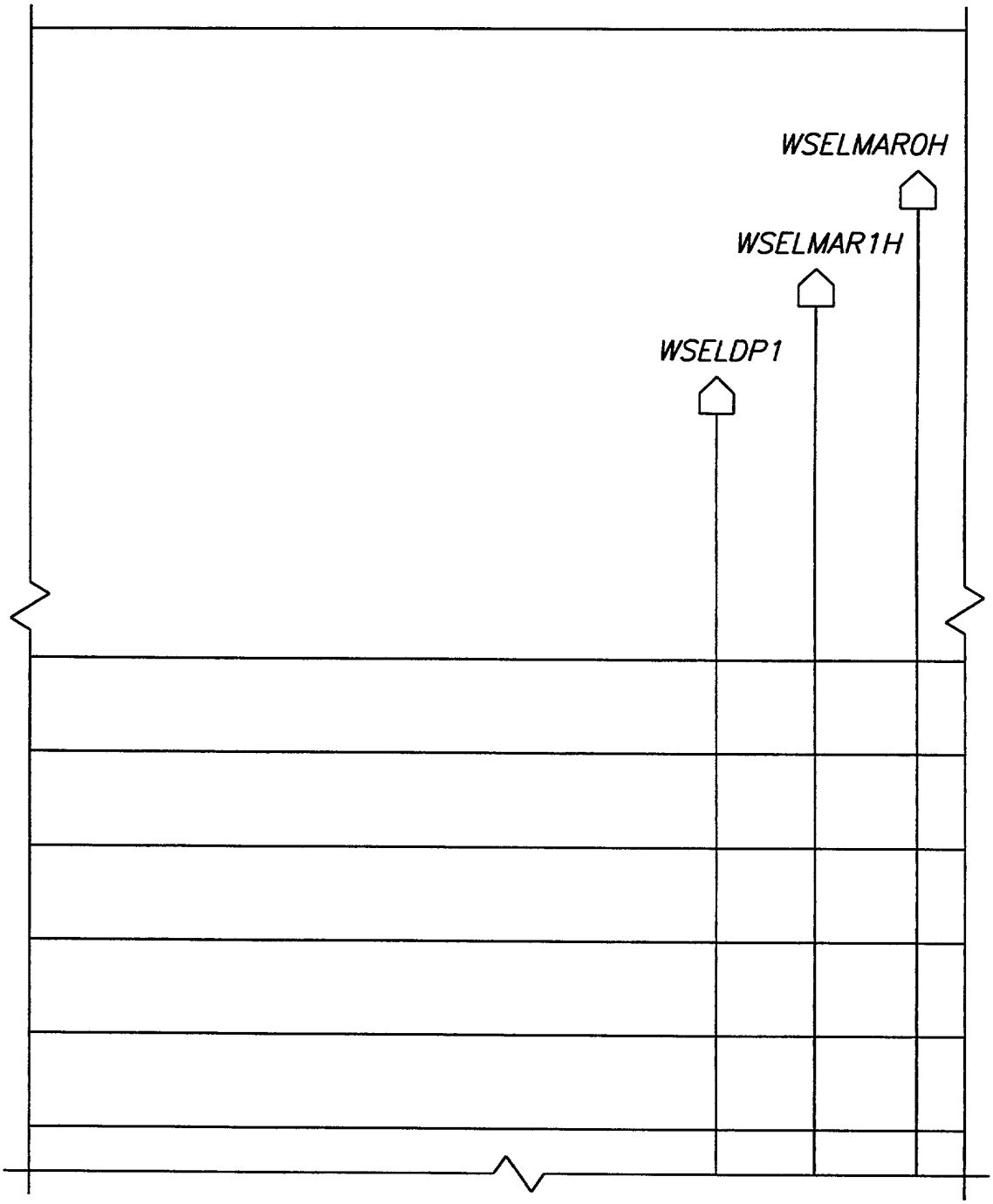


Fig 1.06AL

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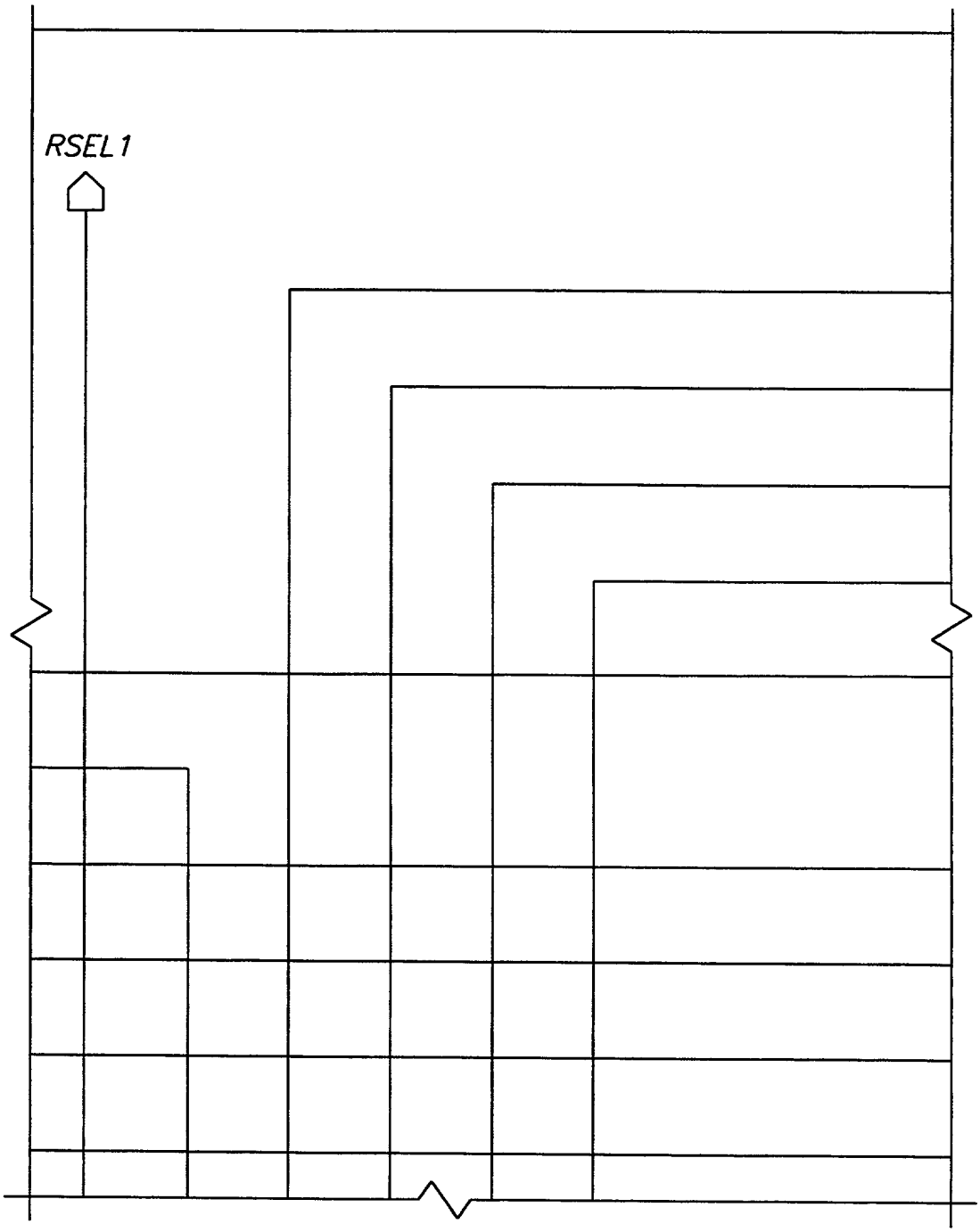


Fig 1.06AM

D/3273/95 15/11/01

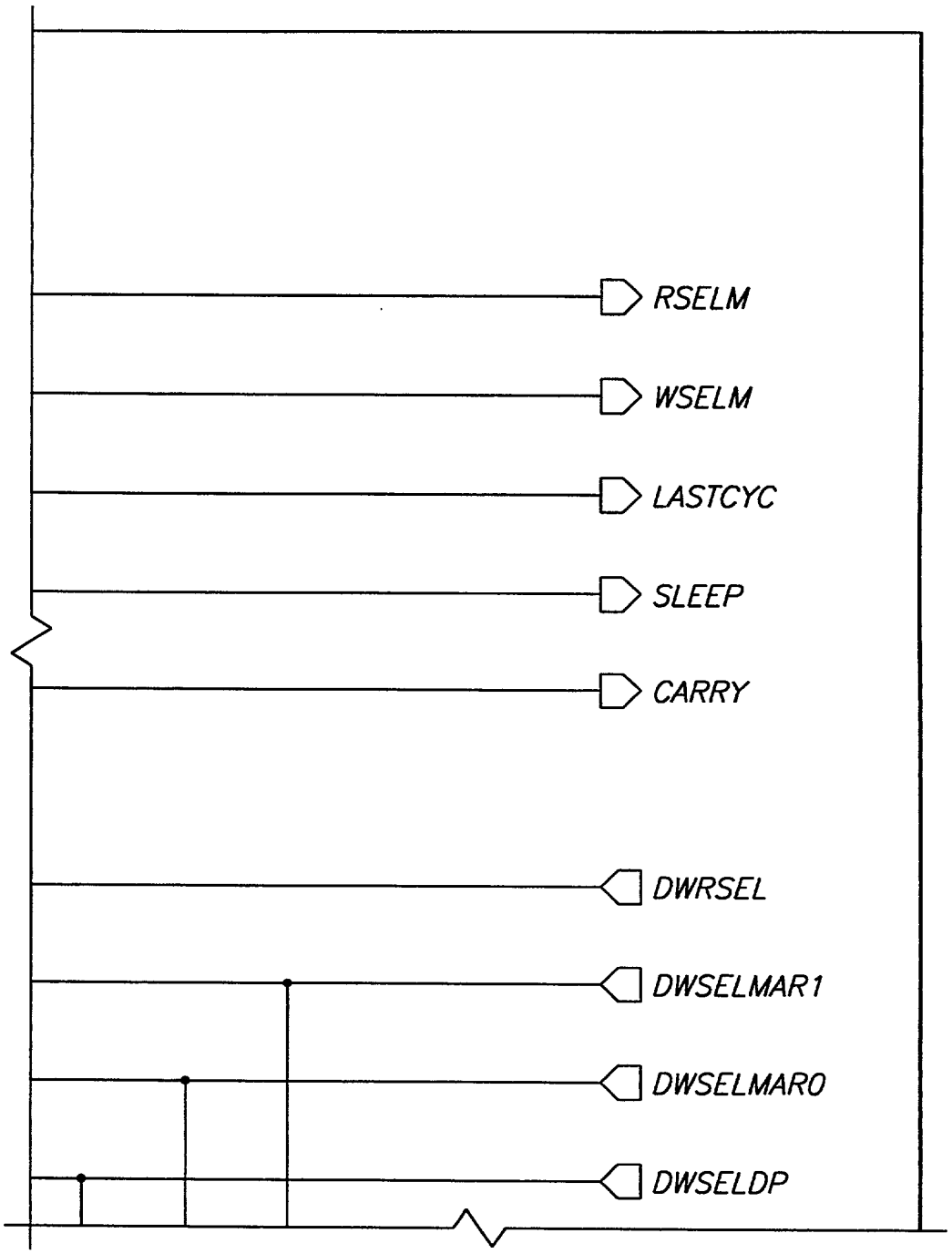


Fig 1.06AN

US6154815

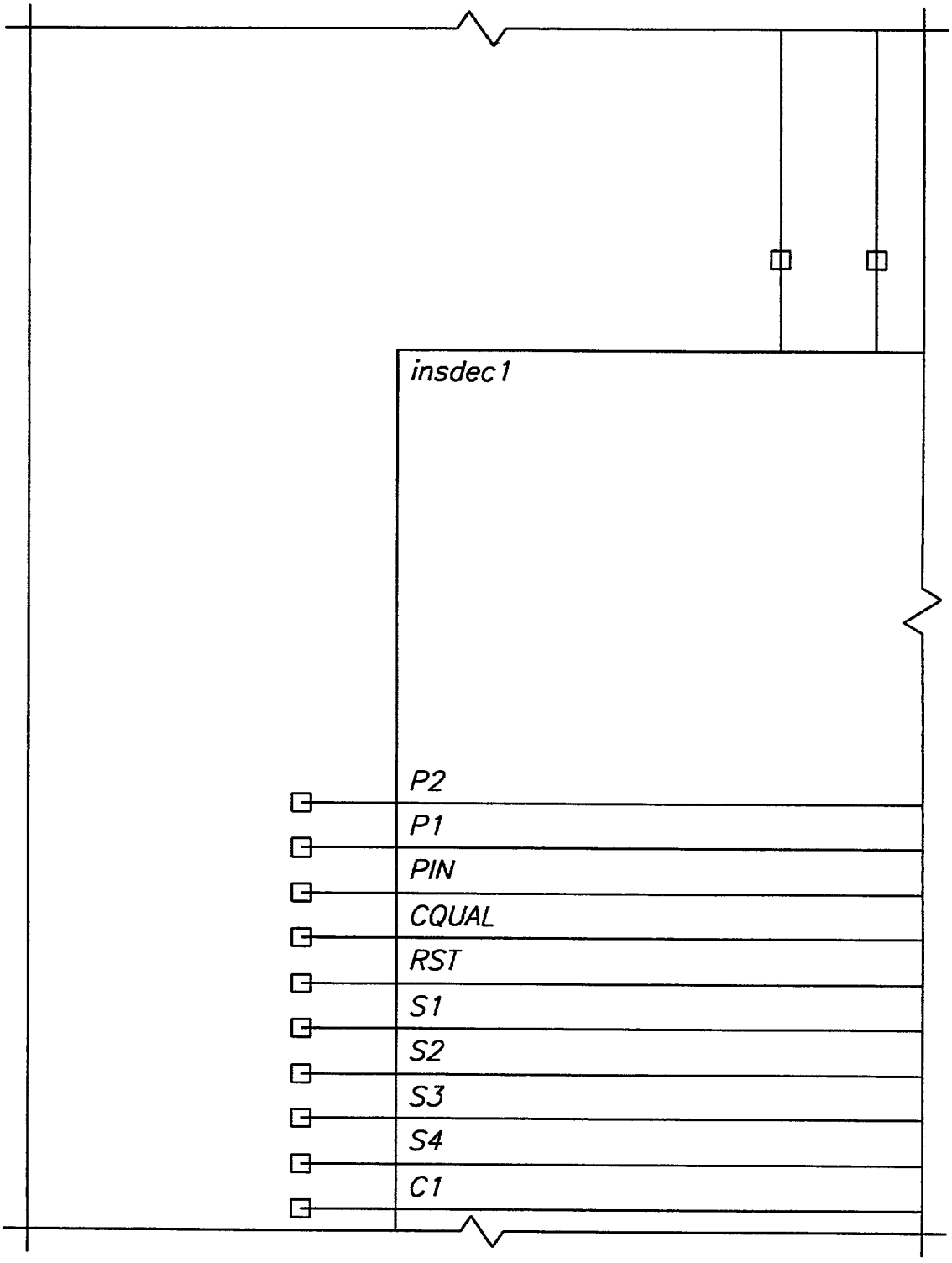


Fig 1.0688

Patent Publications

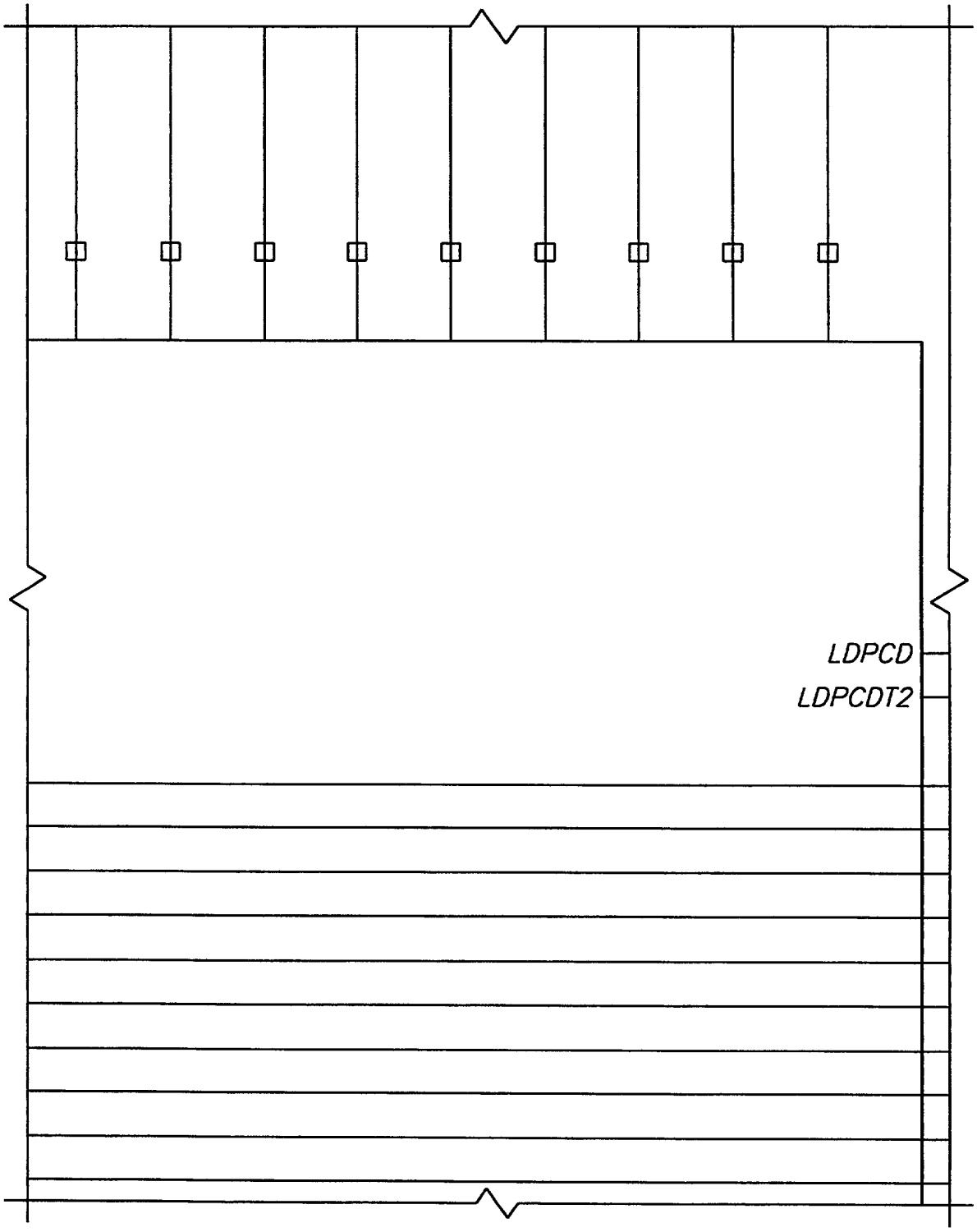
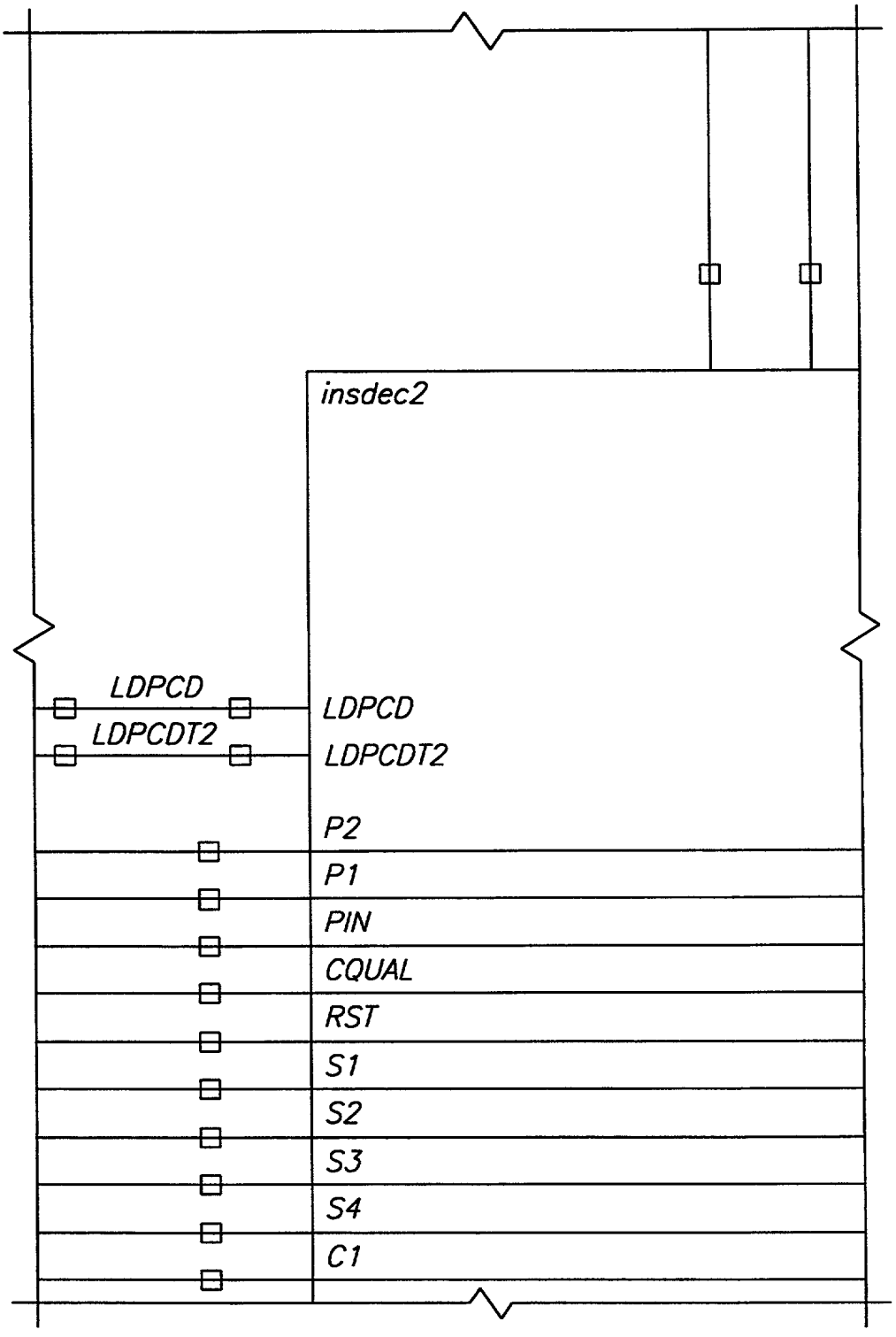


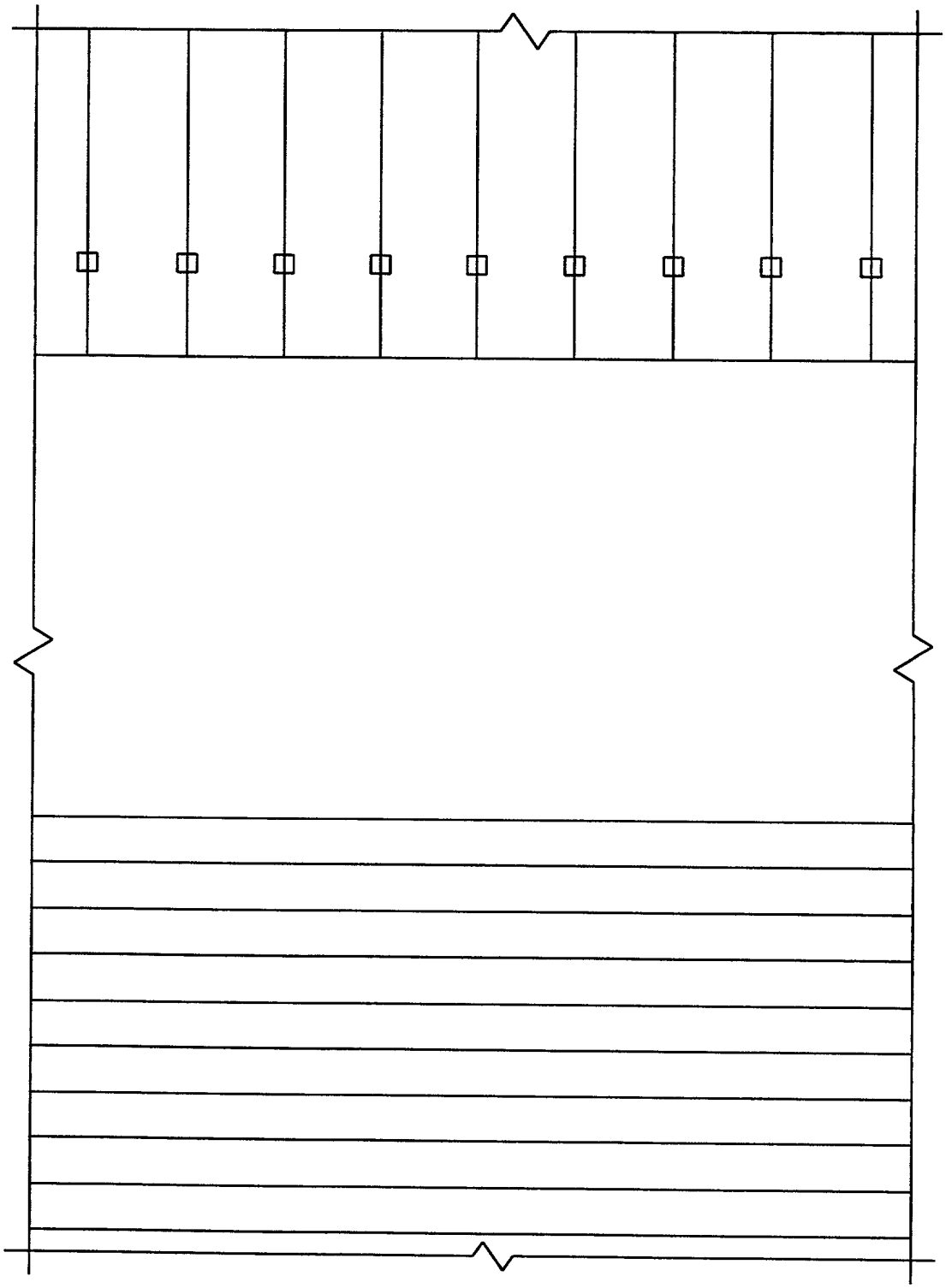
Fig 1.06BC

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Фиг 1.06BD

Patent-2005-05-19



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0562565 - 05.11.04

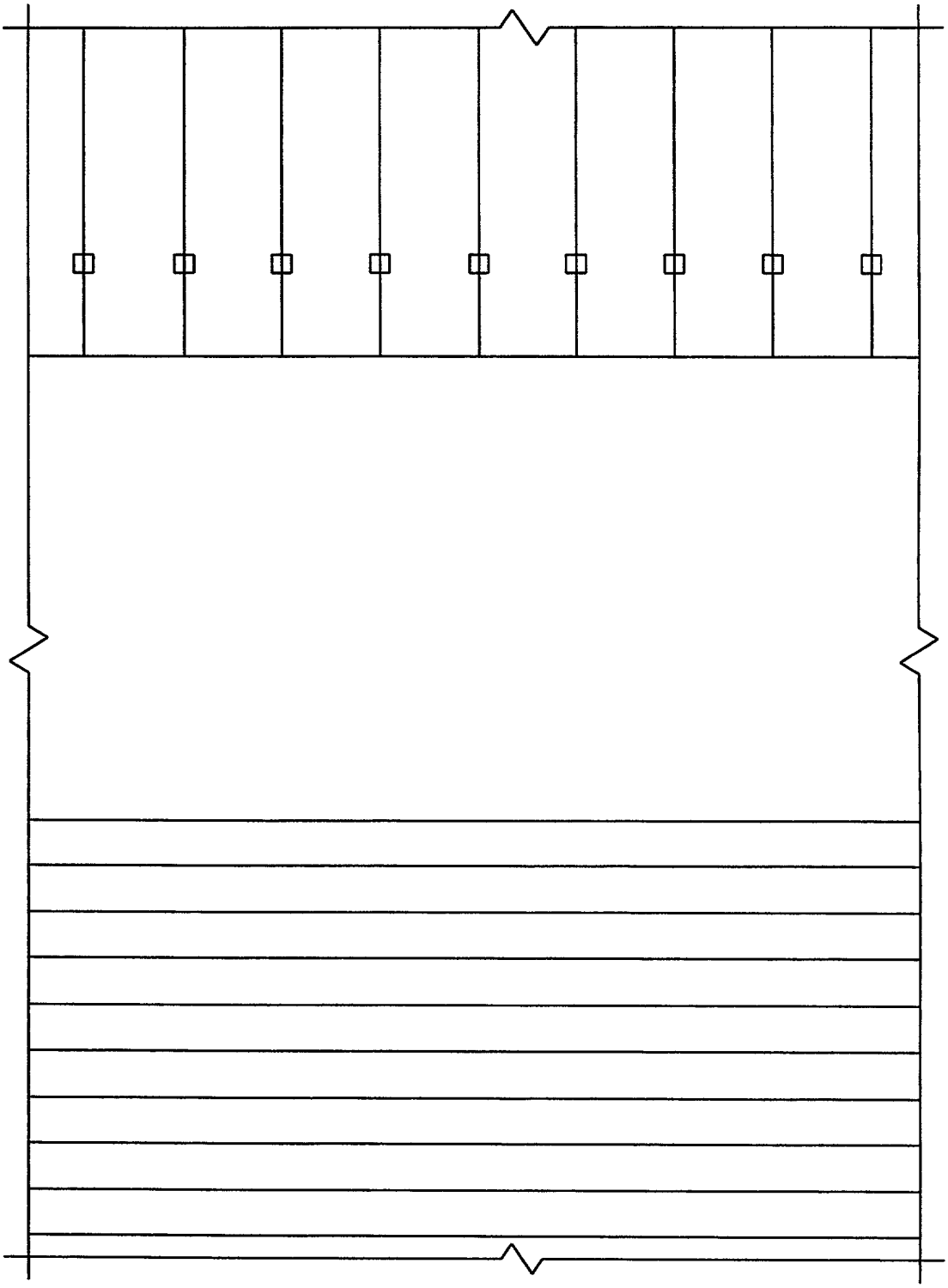


Fig 1.06BF

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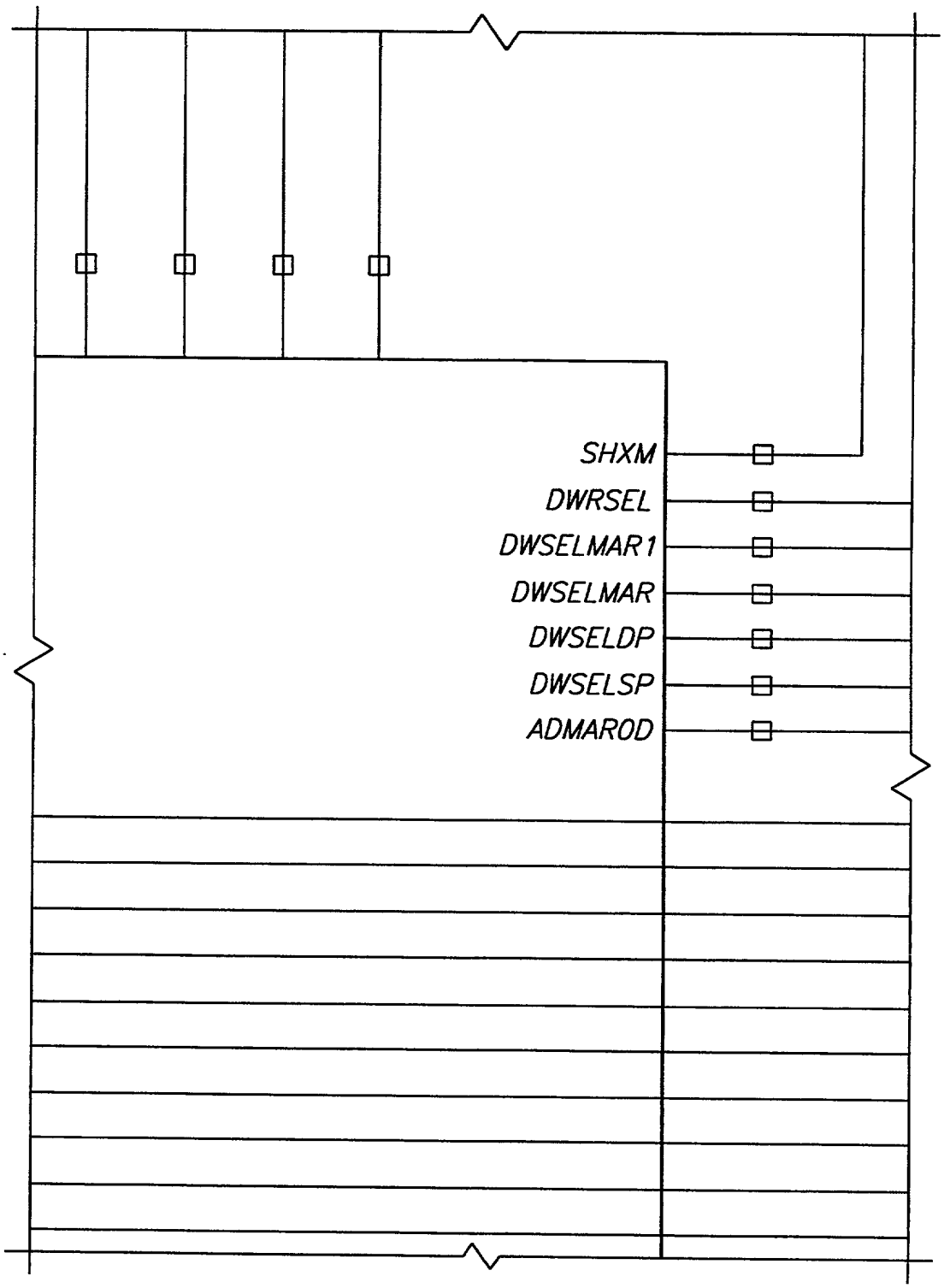
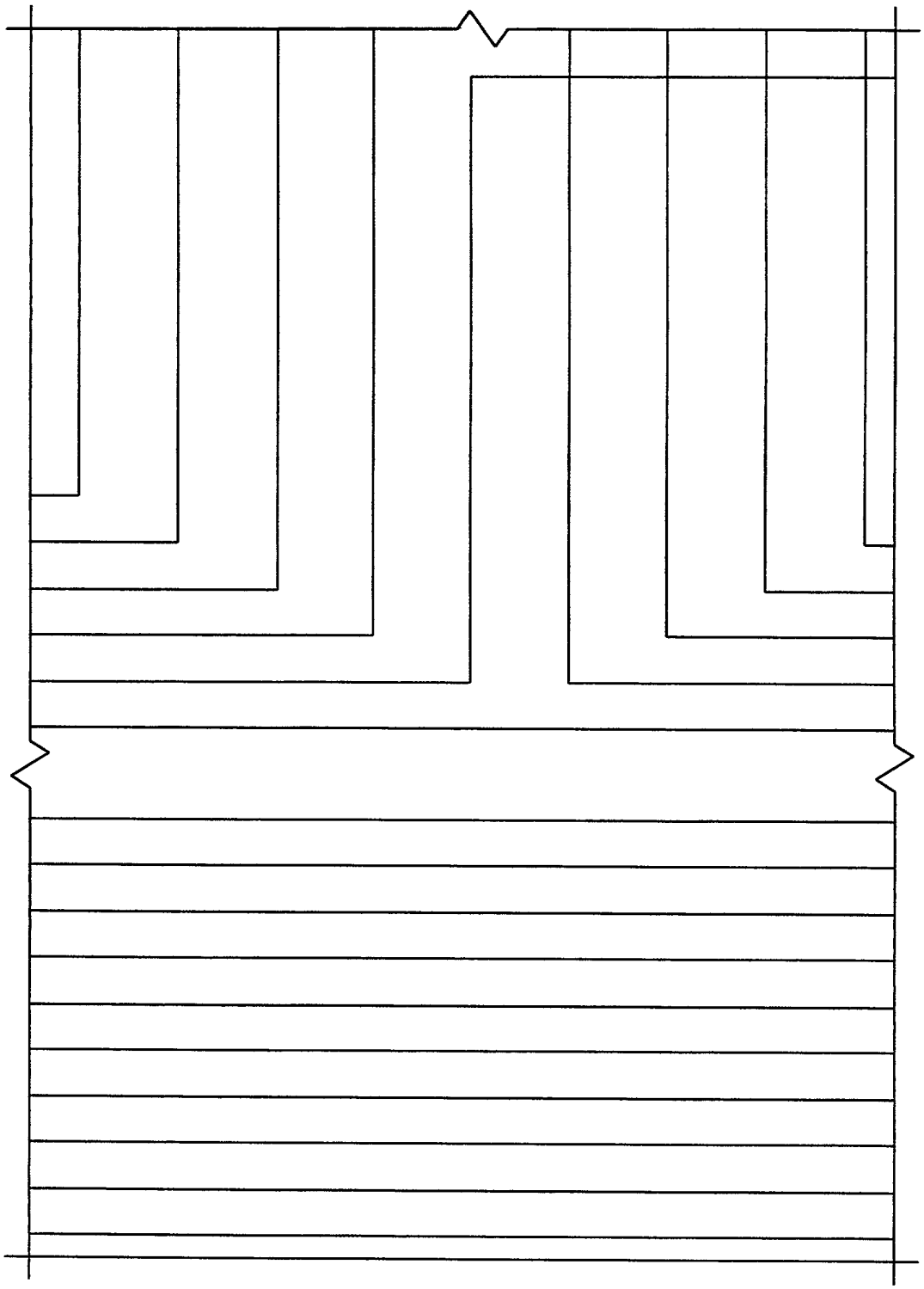


Fig 1.0618

1574595-000-9



Вид Г.ОБВН

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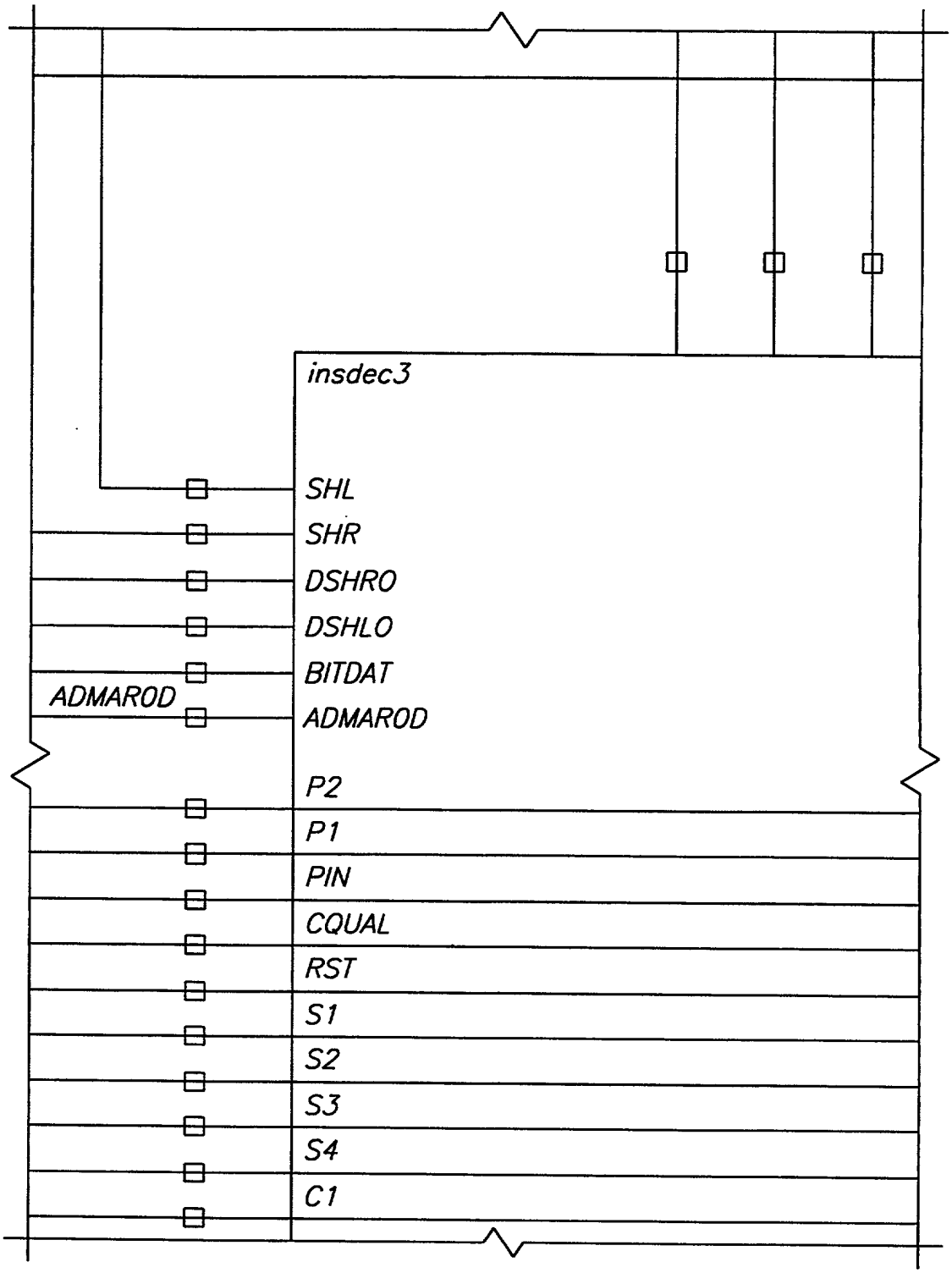
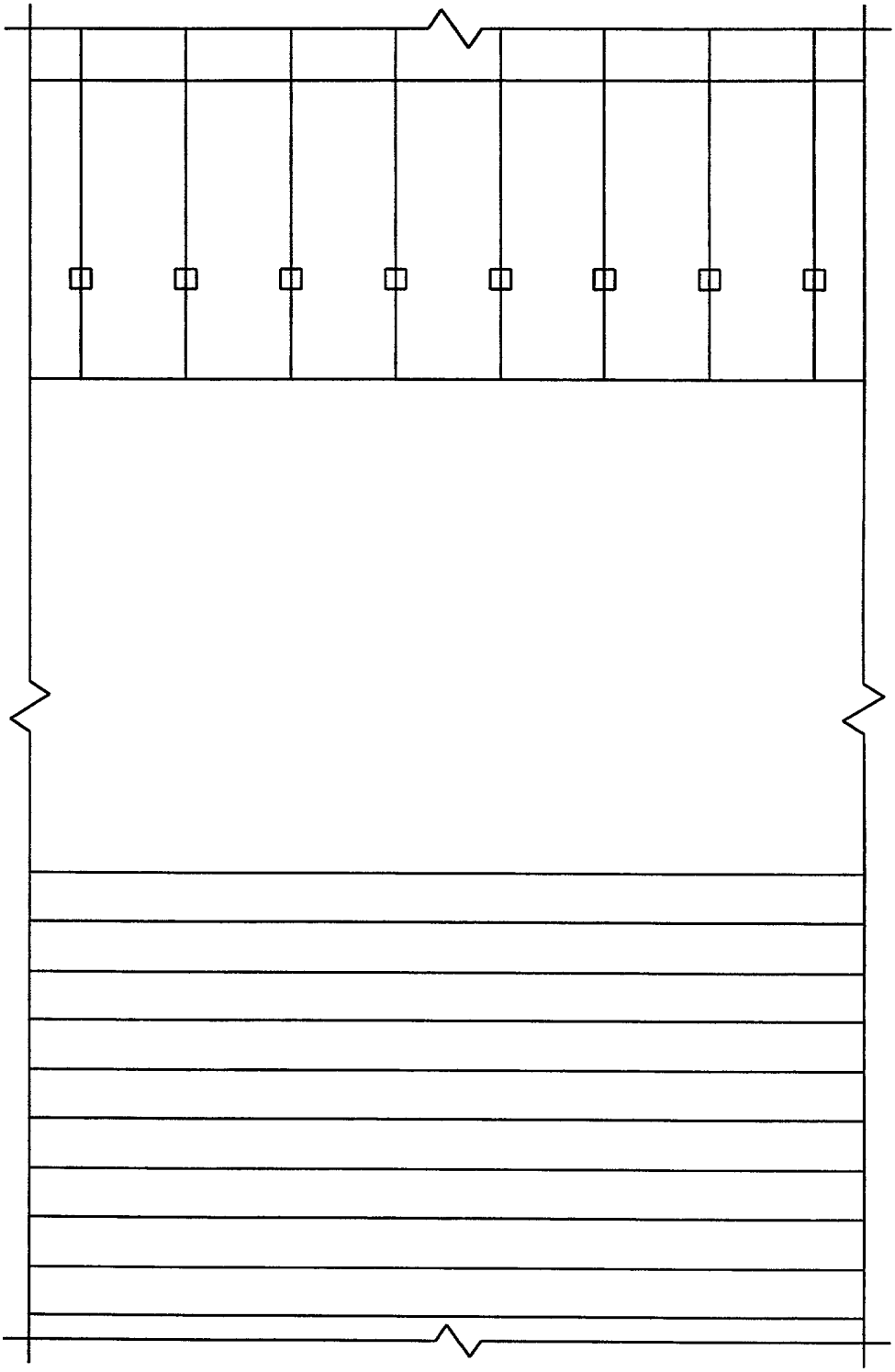


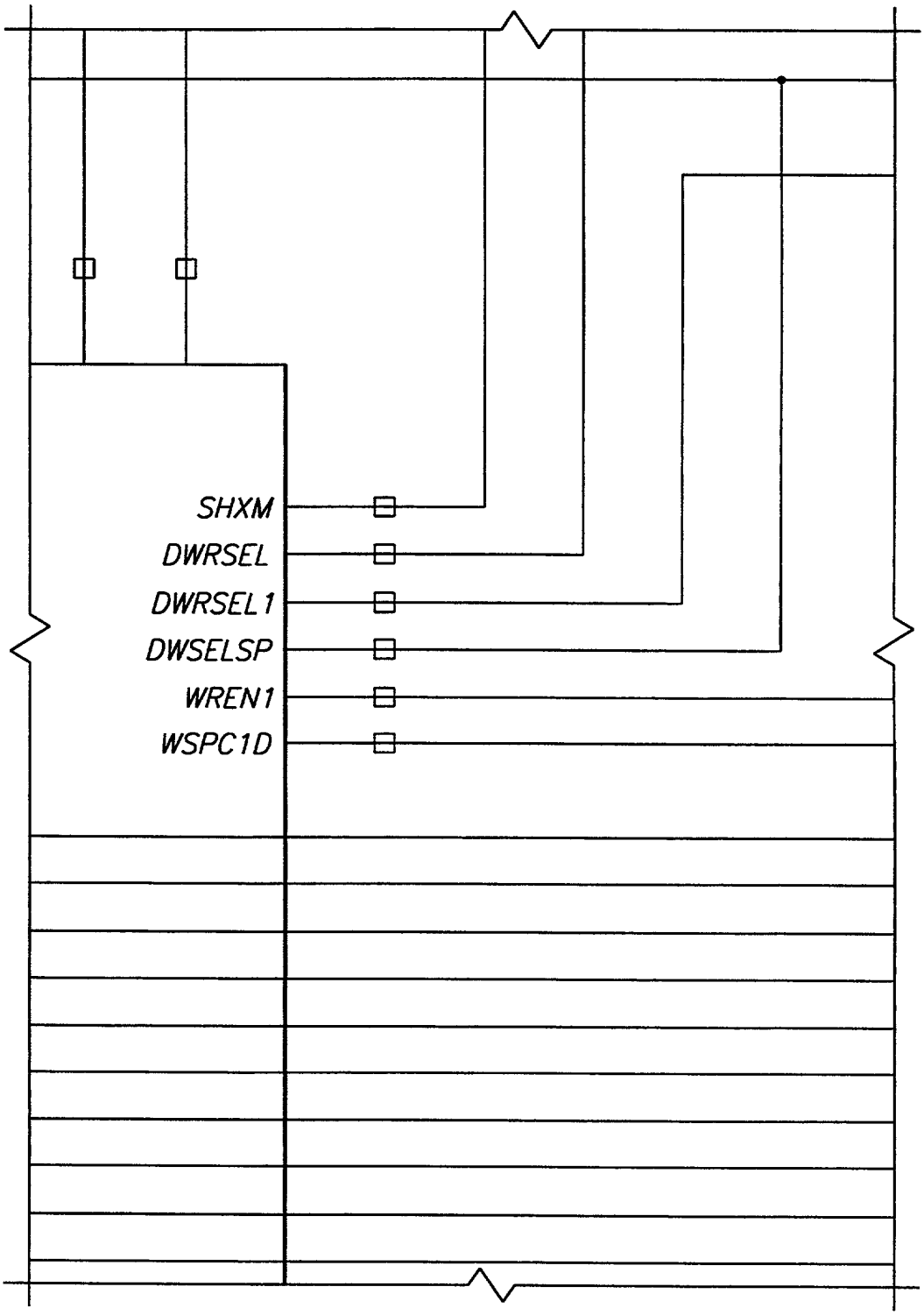
Fig 7.0681

US5822605-05470



Вид 1.06Ва

Альбом 5.903-26.95 Выпуск 1



Фиг 1.06ВК

Copyright Patents Publication

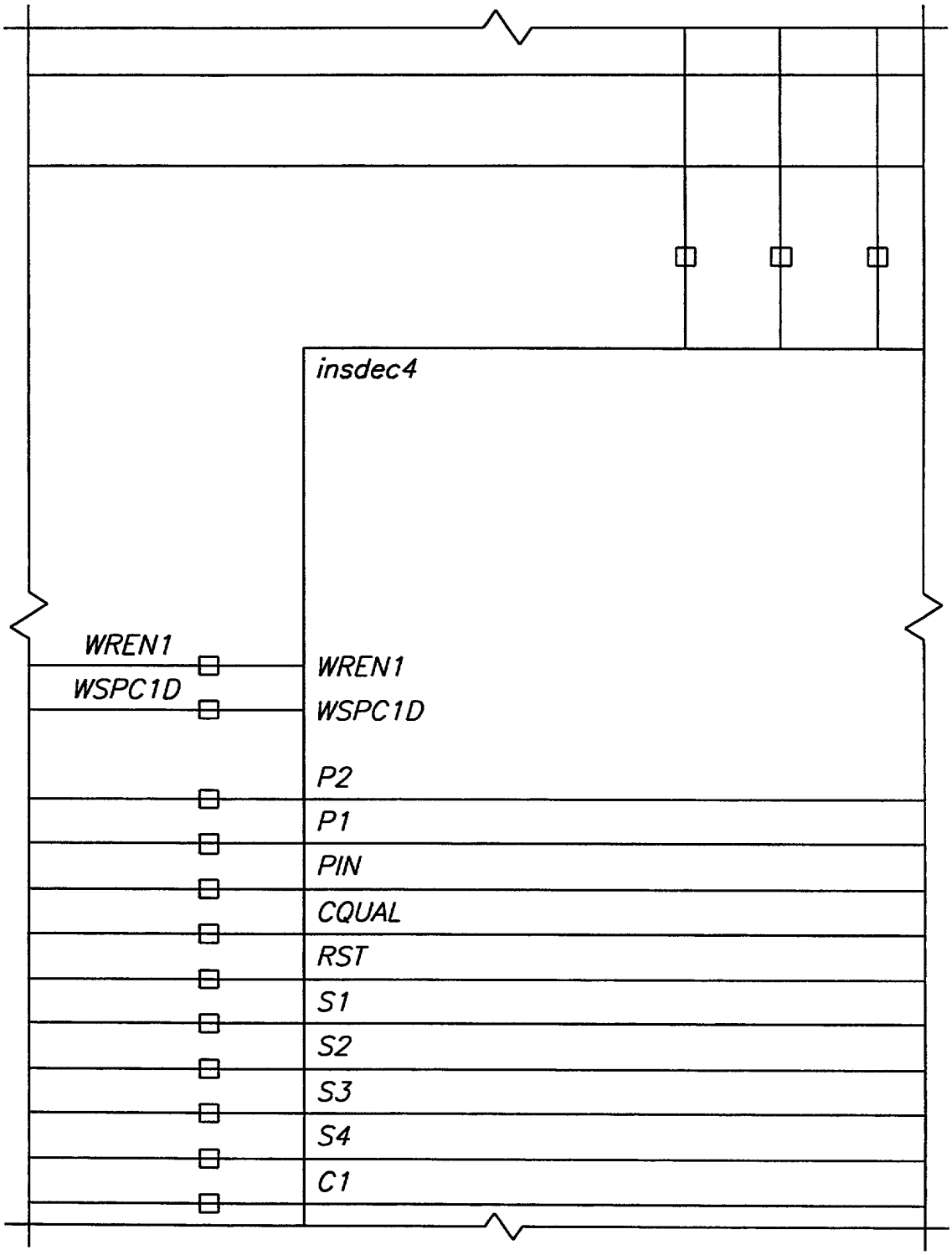


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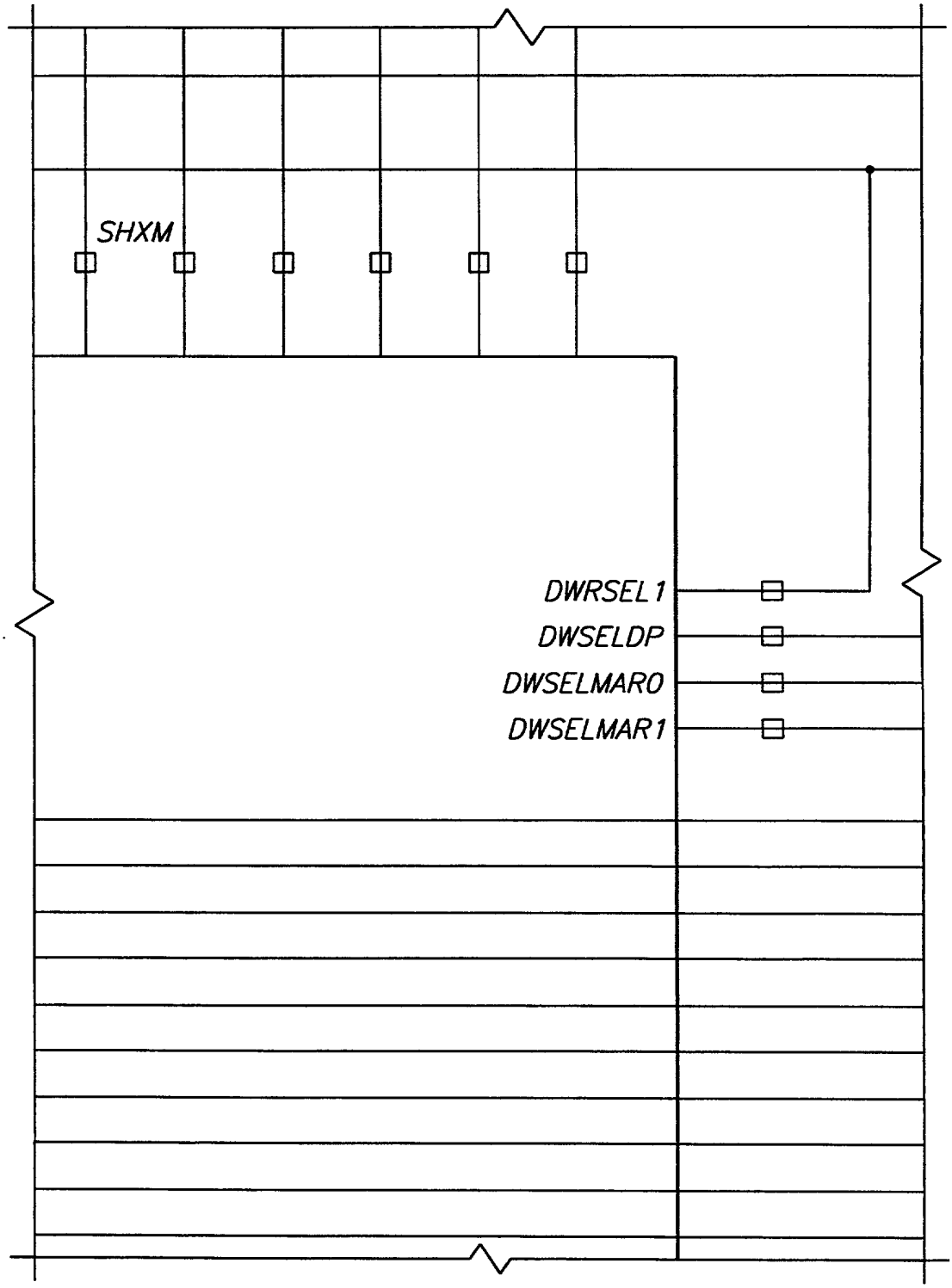


Fig 1.06BM

Patent Application Publication

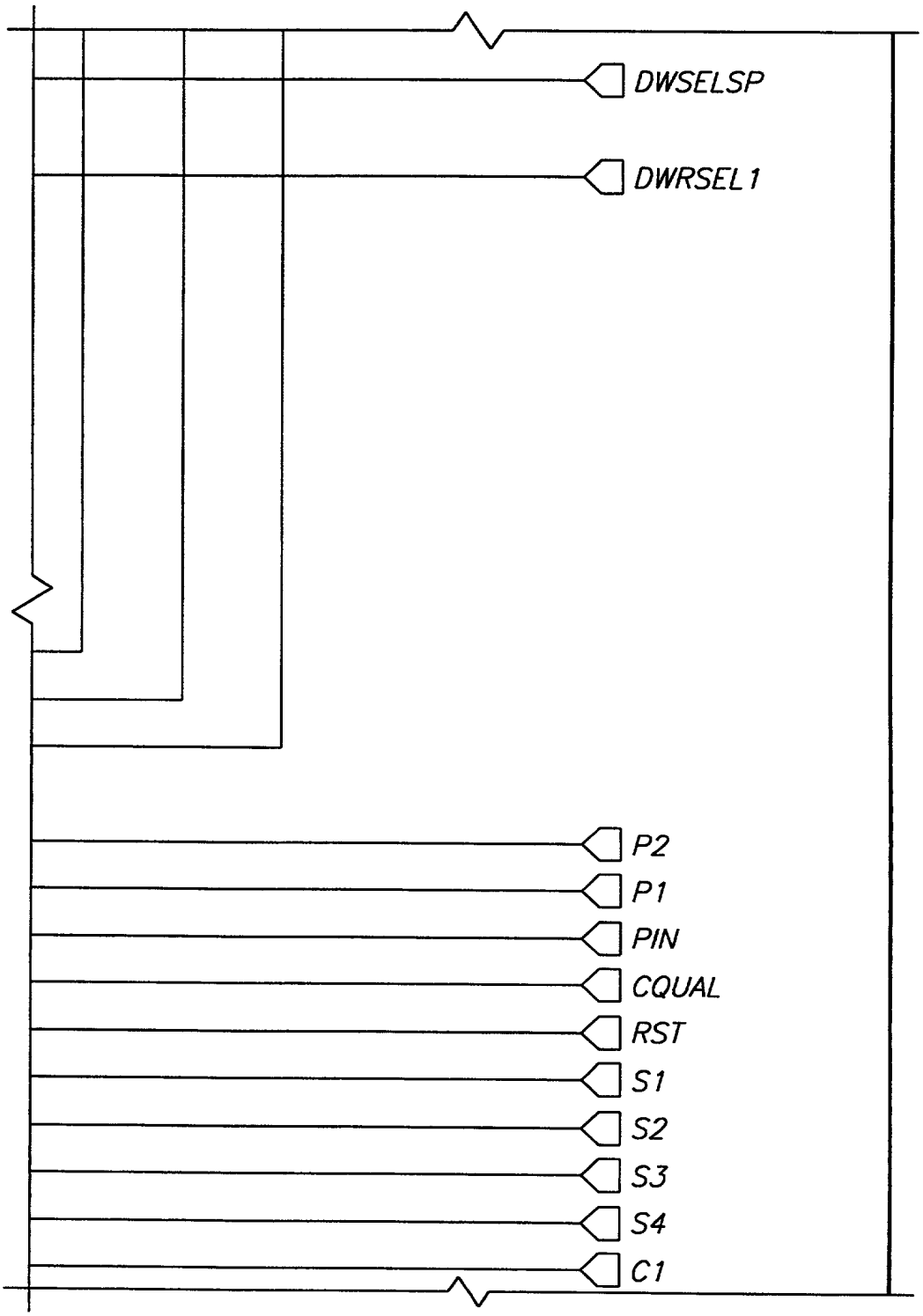


Fig 1.06BN

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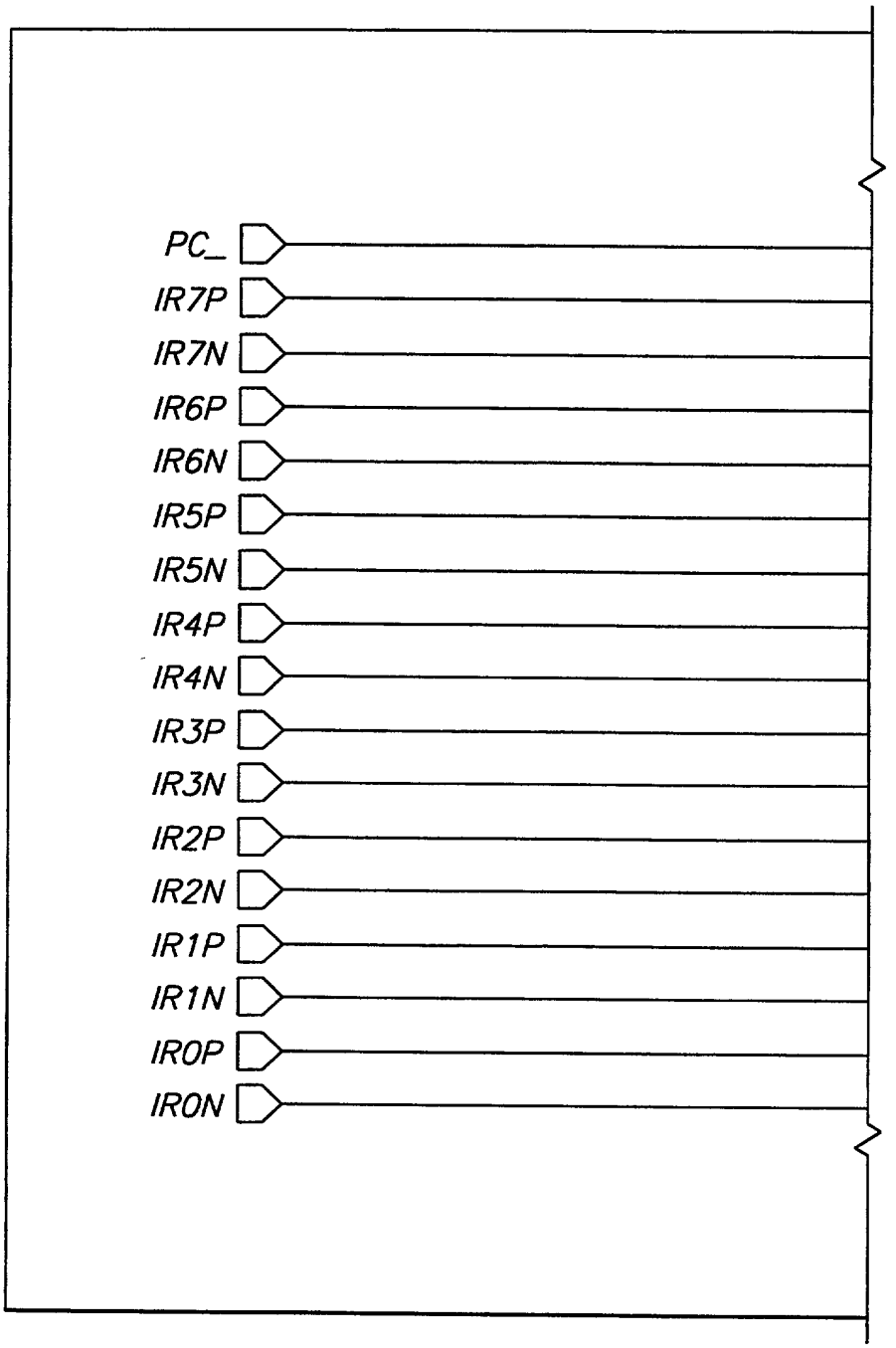


Fig 7.06CA

Exhibit 1002 - Page 1354

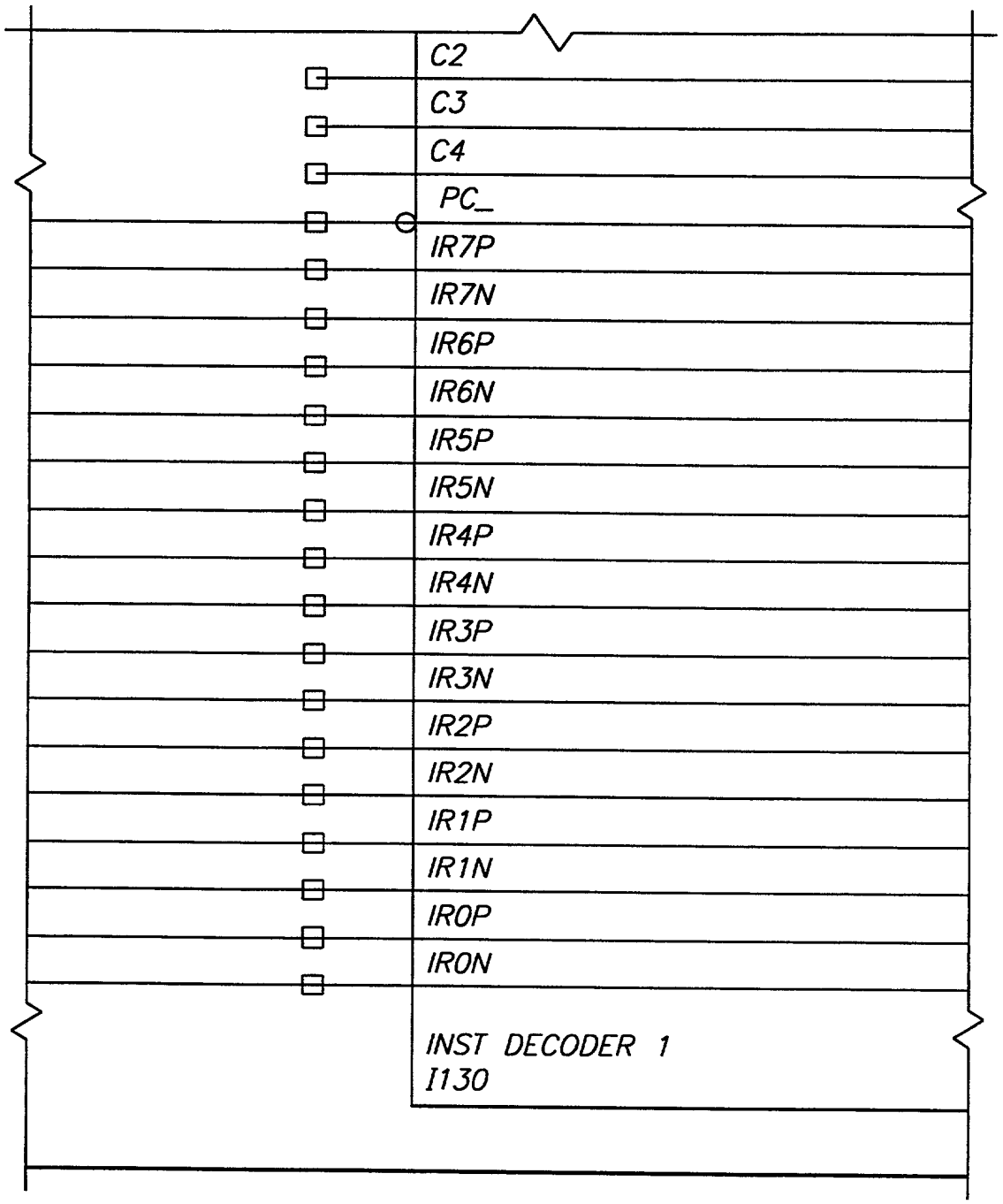


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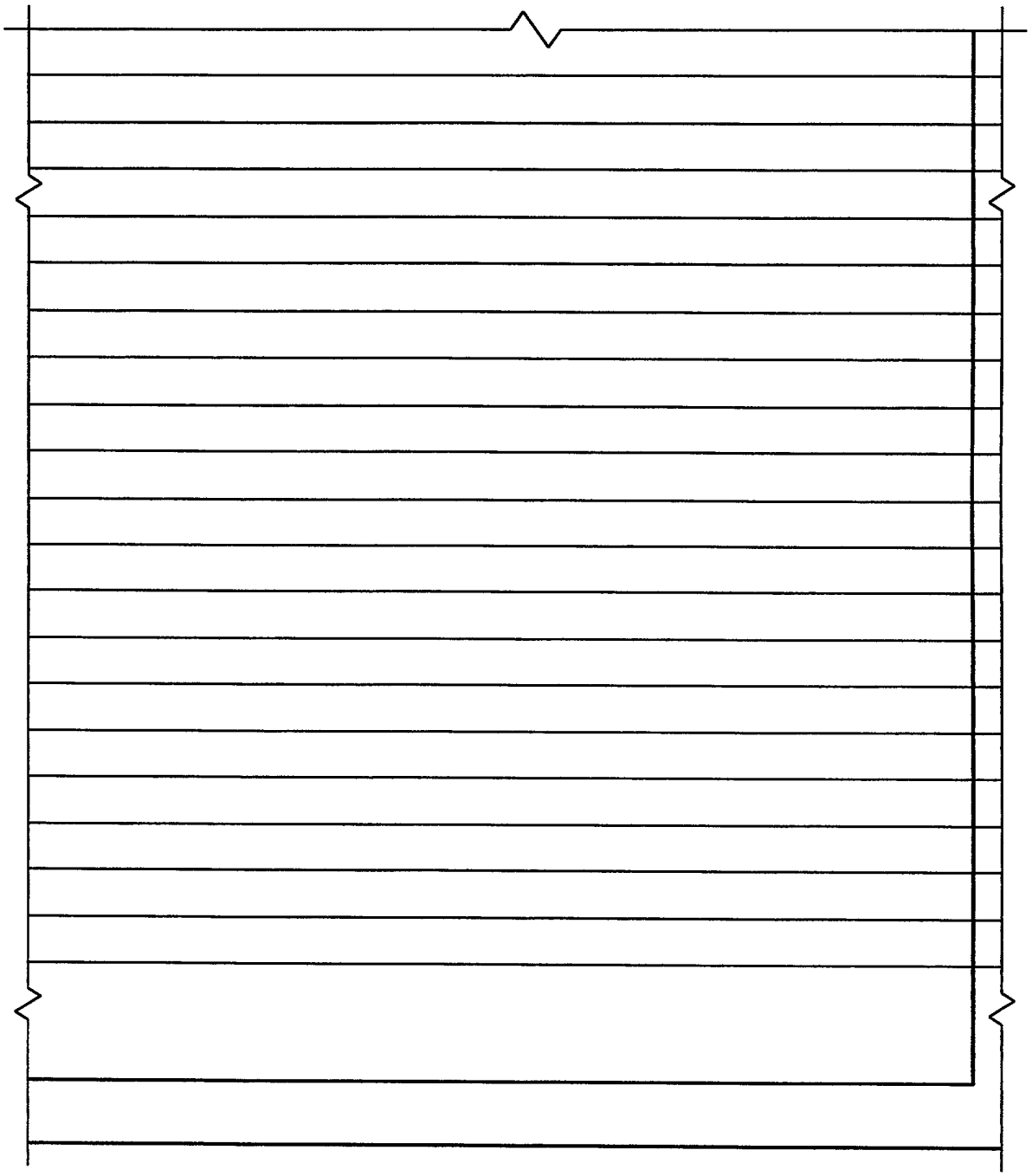


Fig 1.06CC

4,934,956

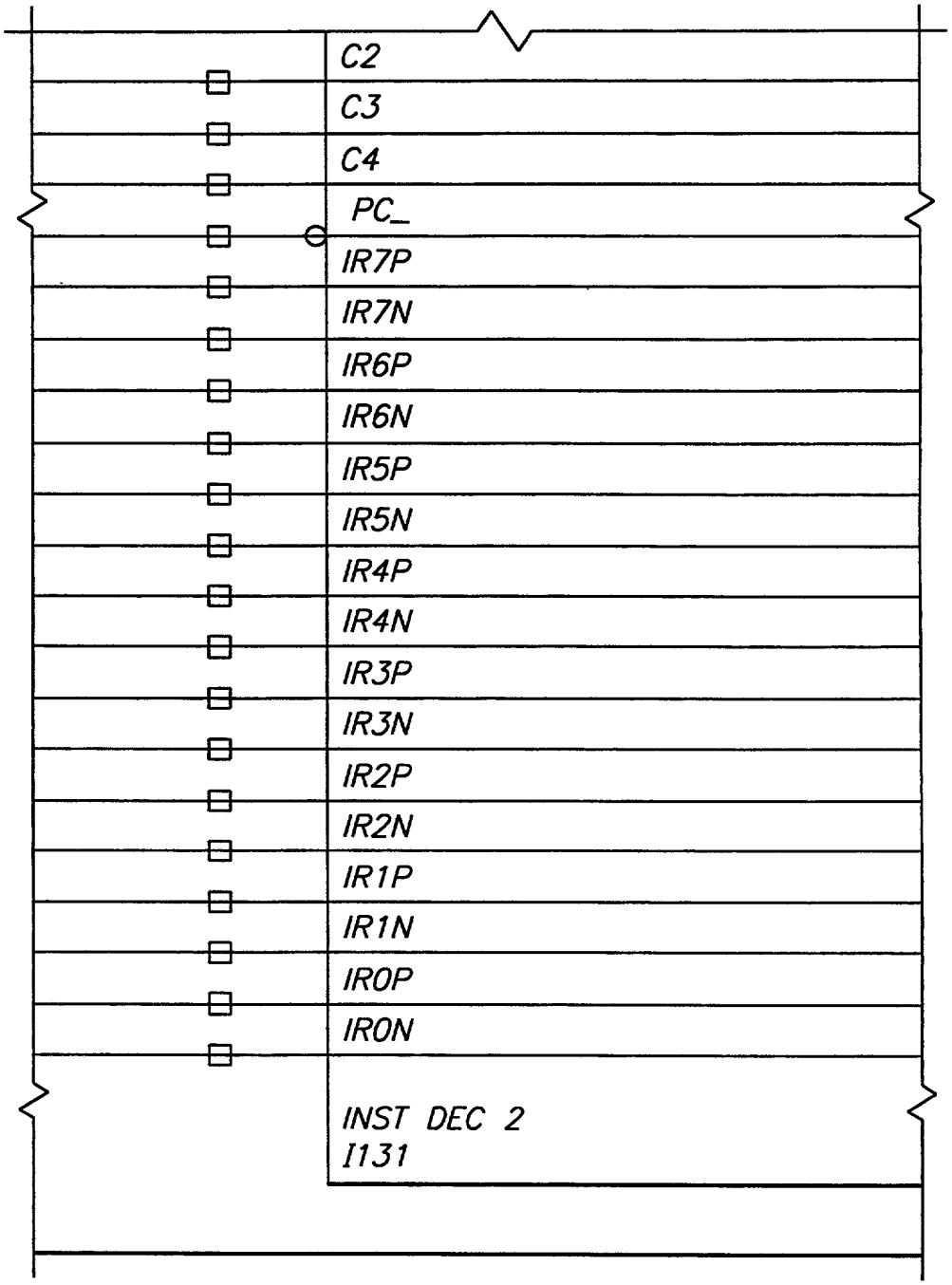


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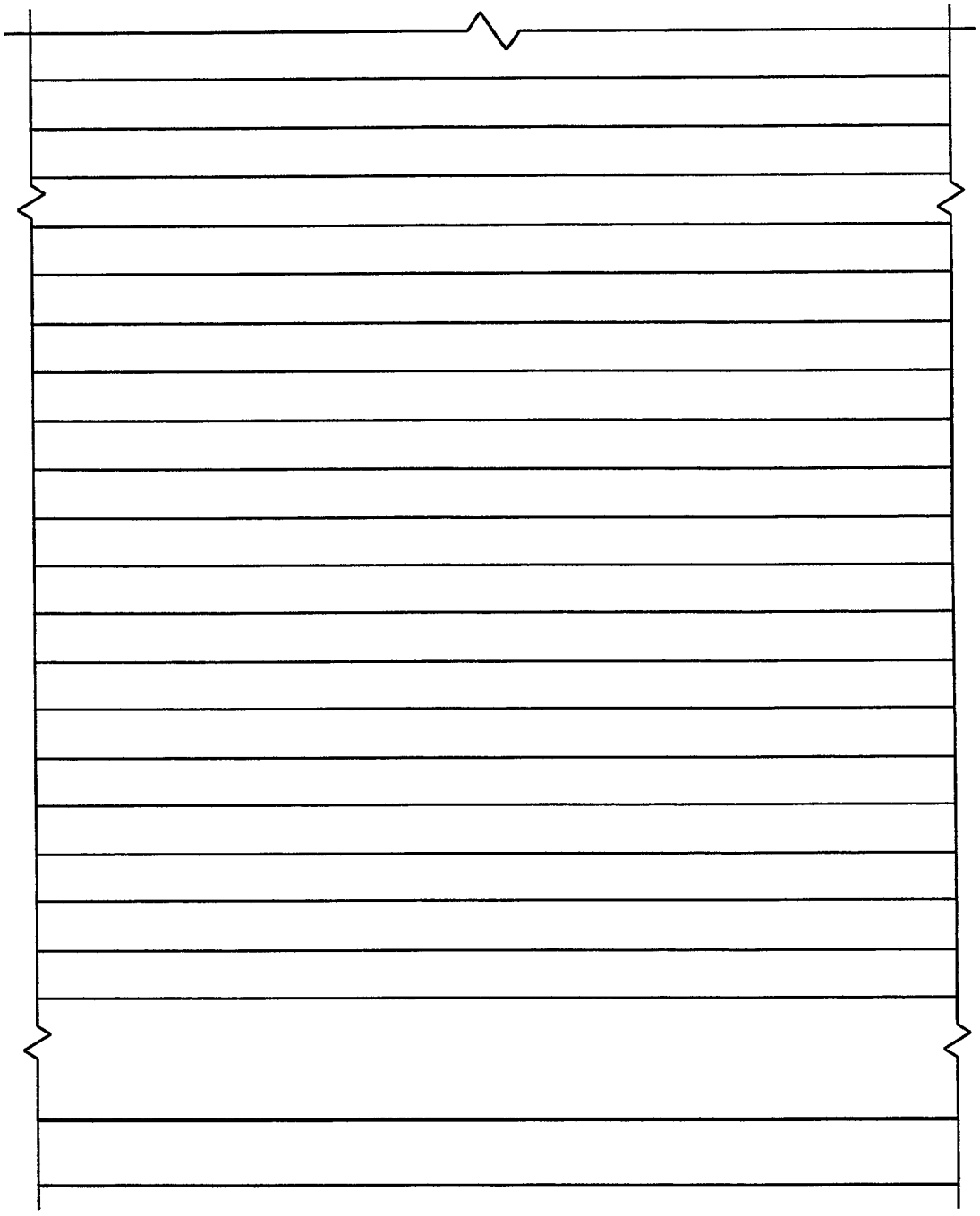


Fig 7.06CE

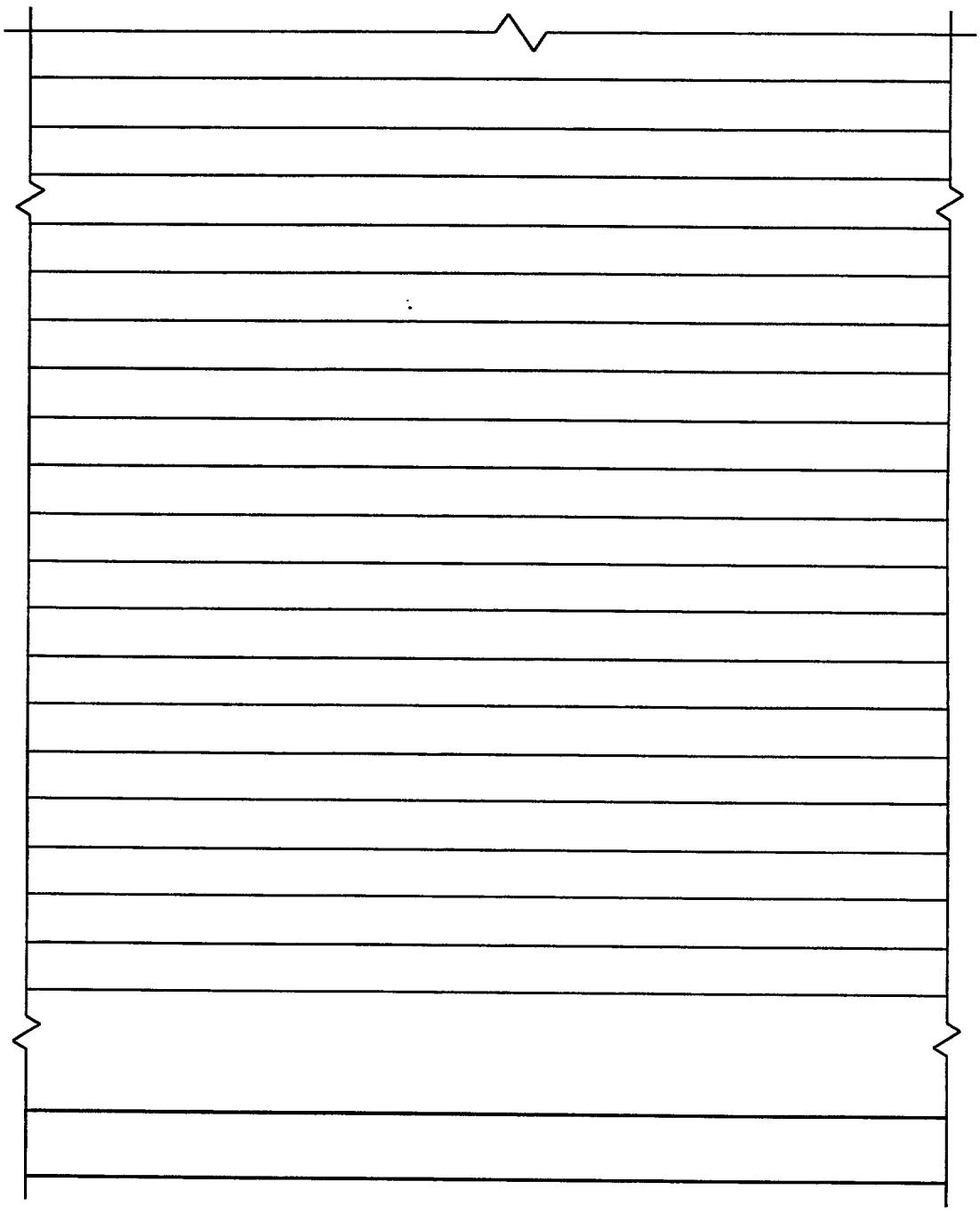


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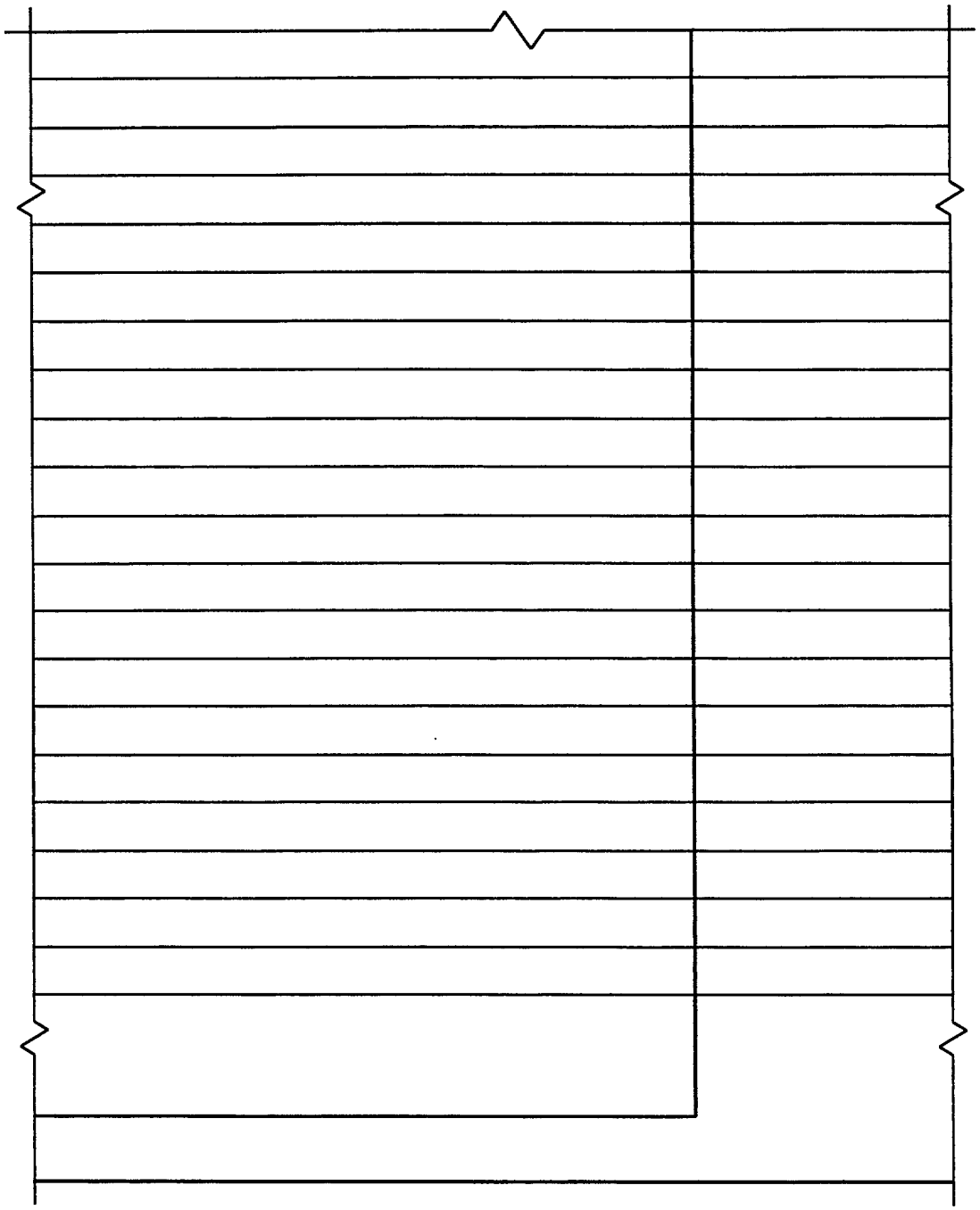
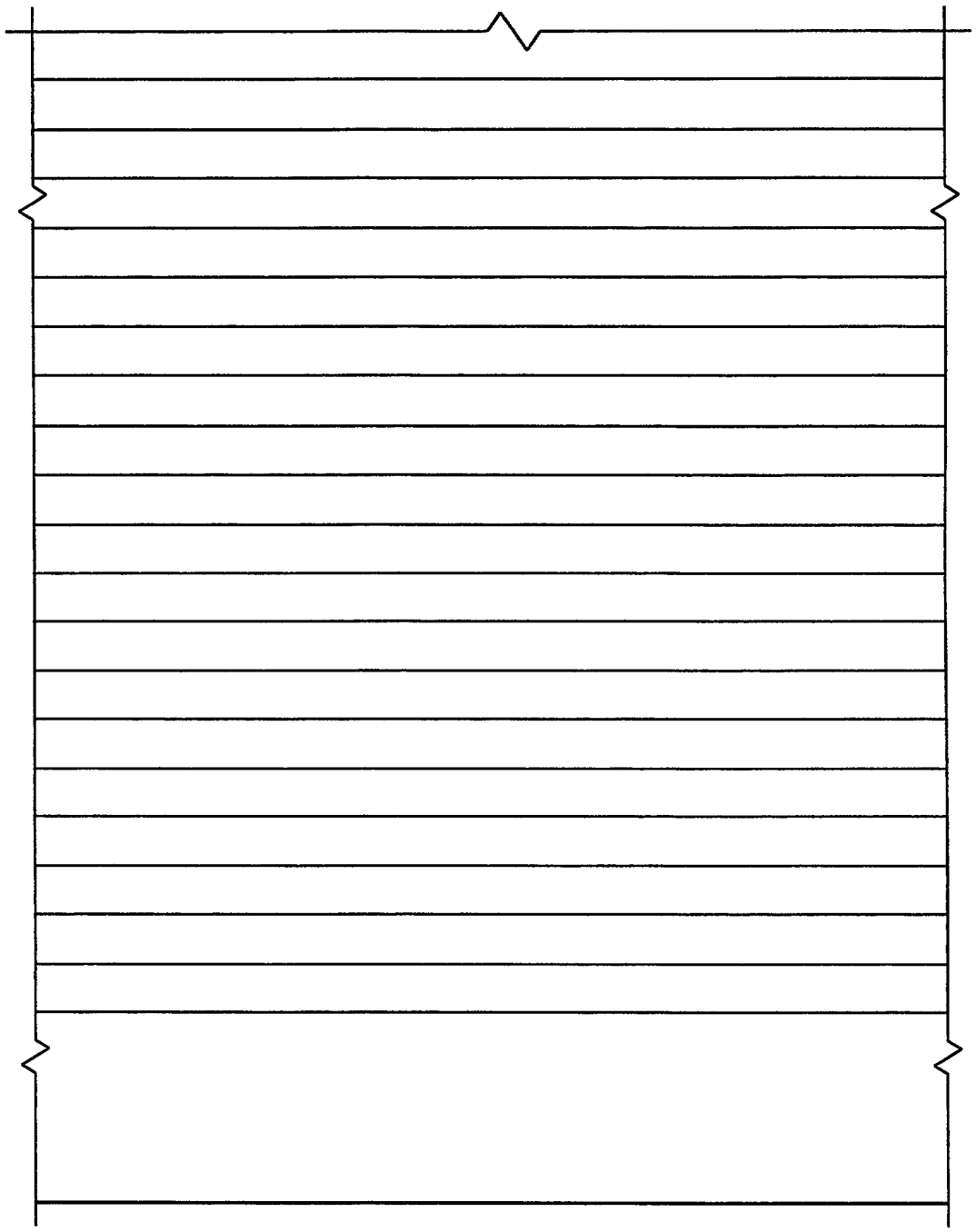


Fig 7.0626

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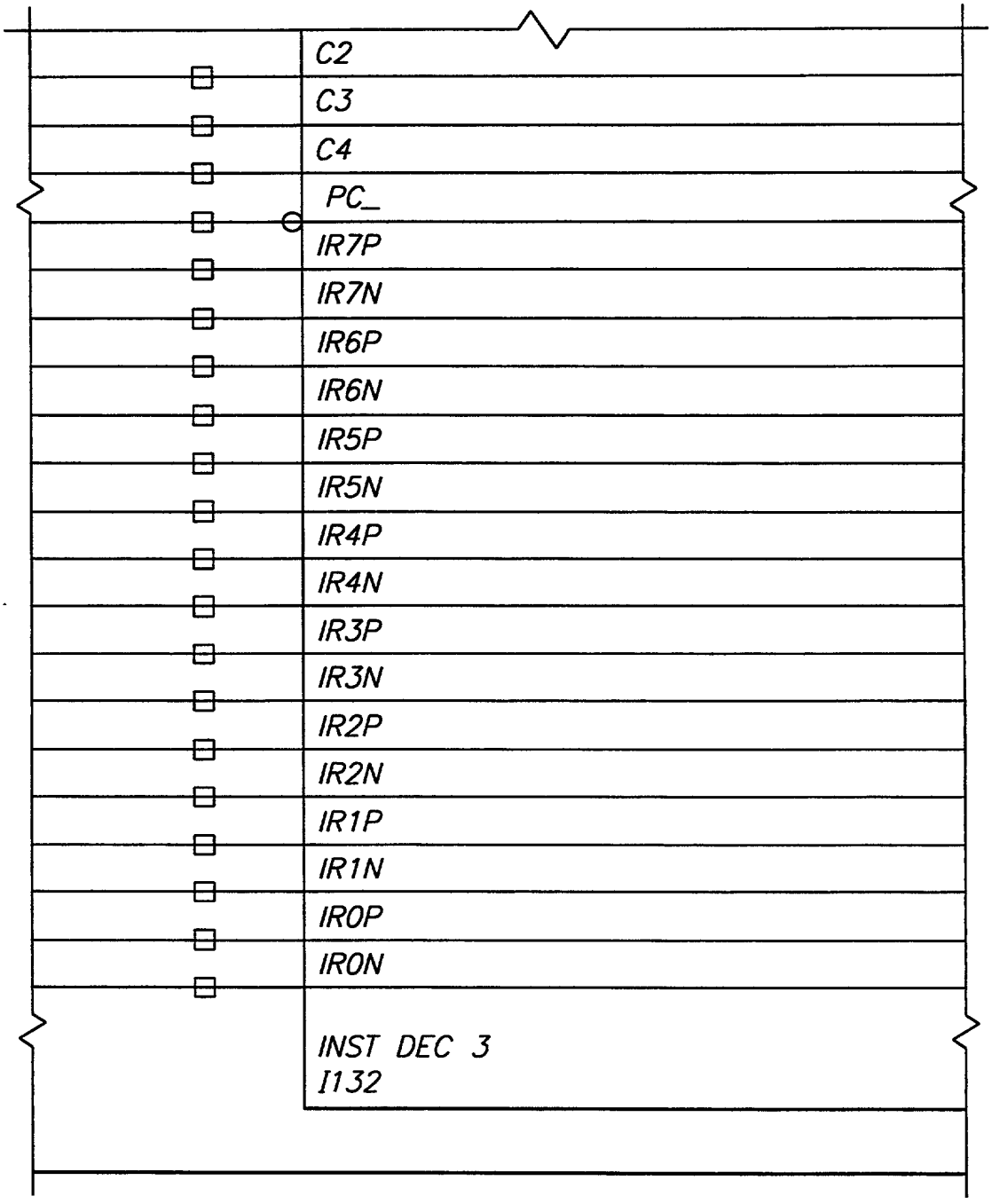
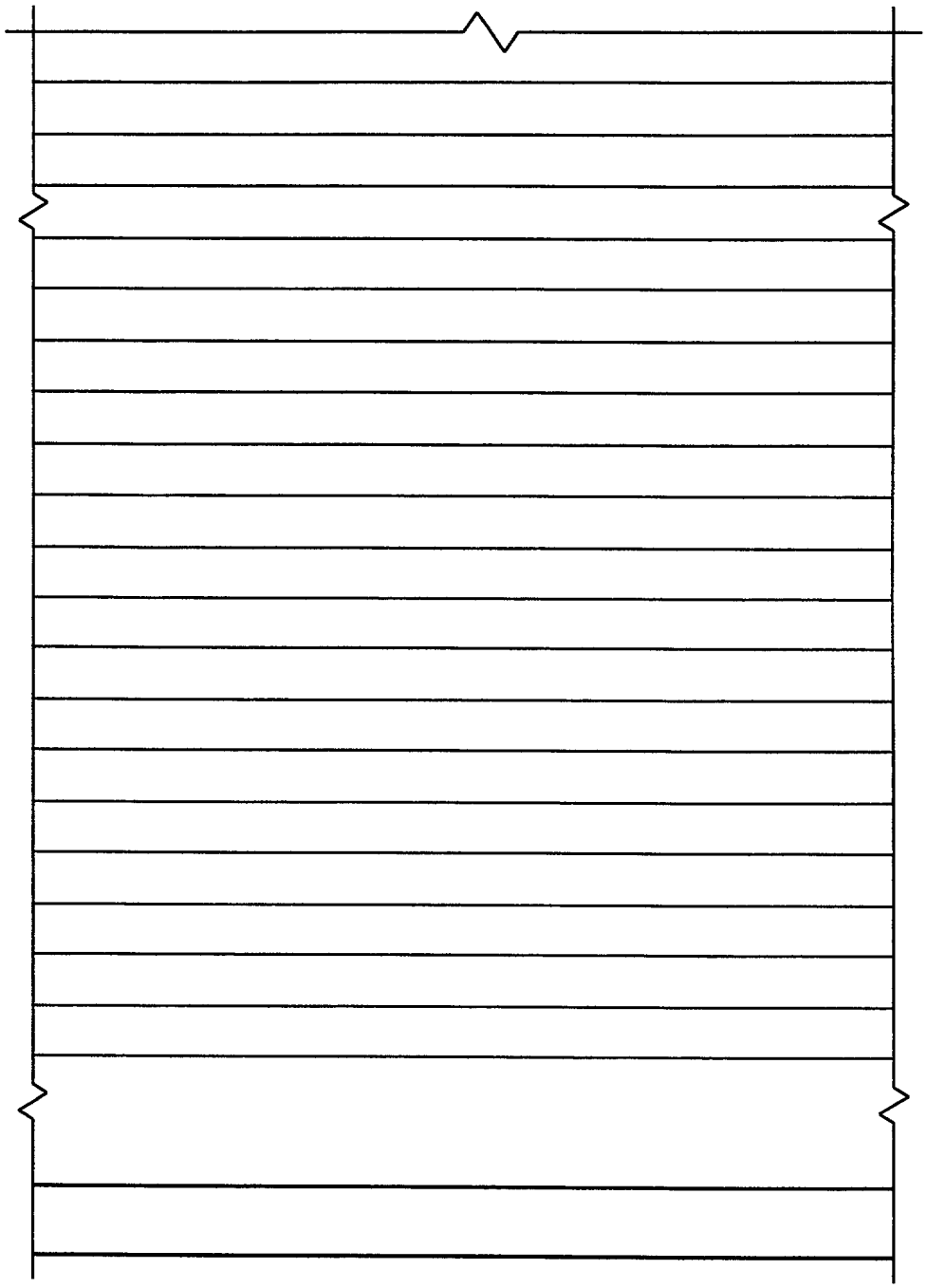


Fig 3.06CII

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Фиг. 1.06Са

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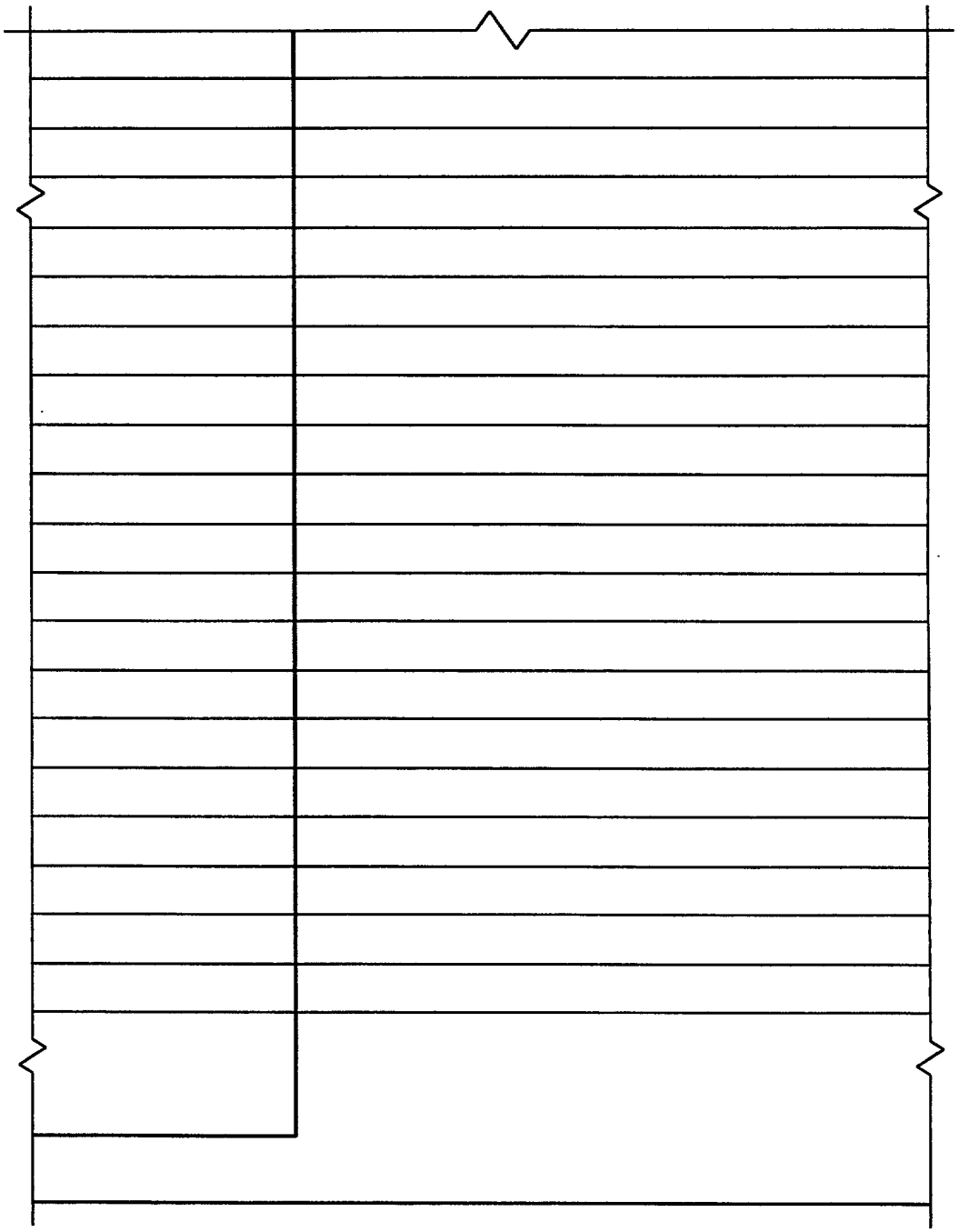


Fig 1.06CK

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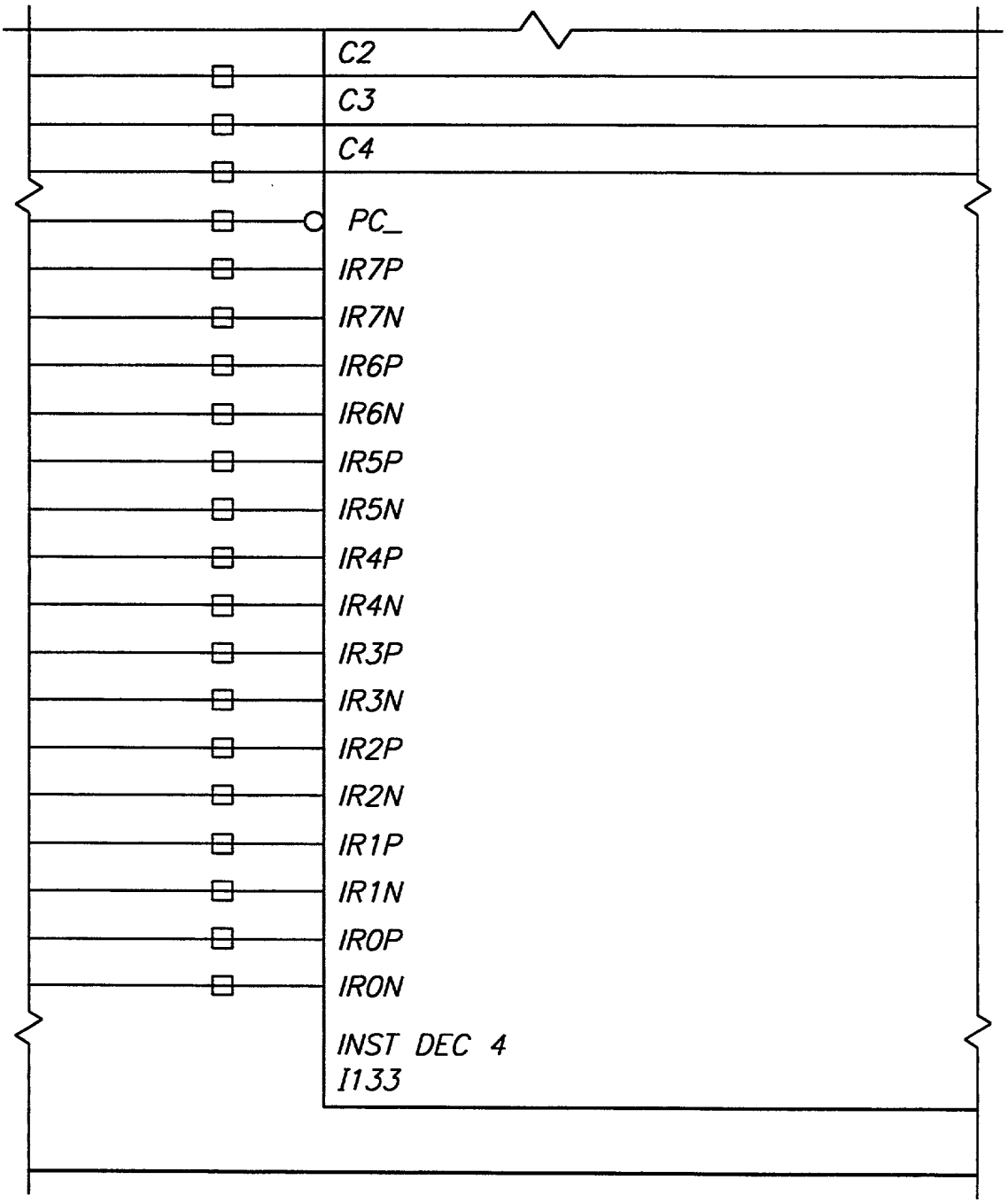
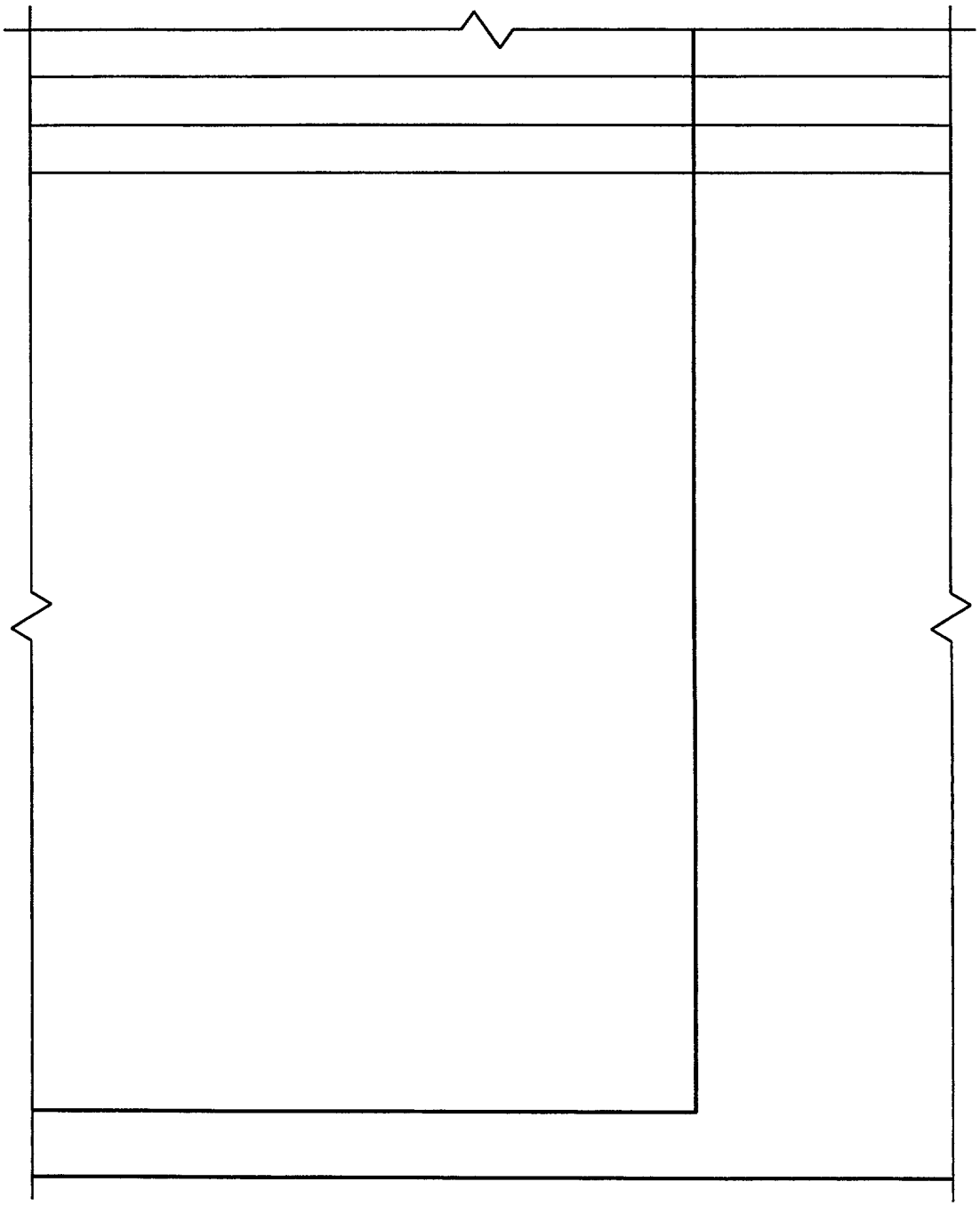


Fig 1.06CL

10/17/2005, 5952954.01



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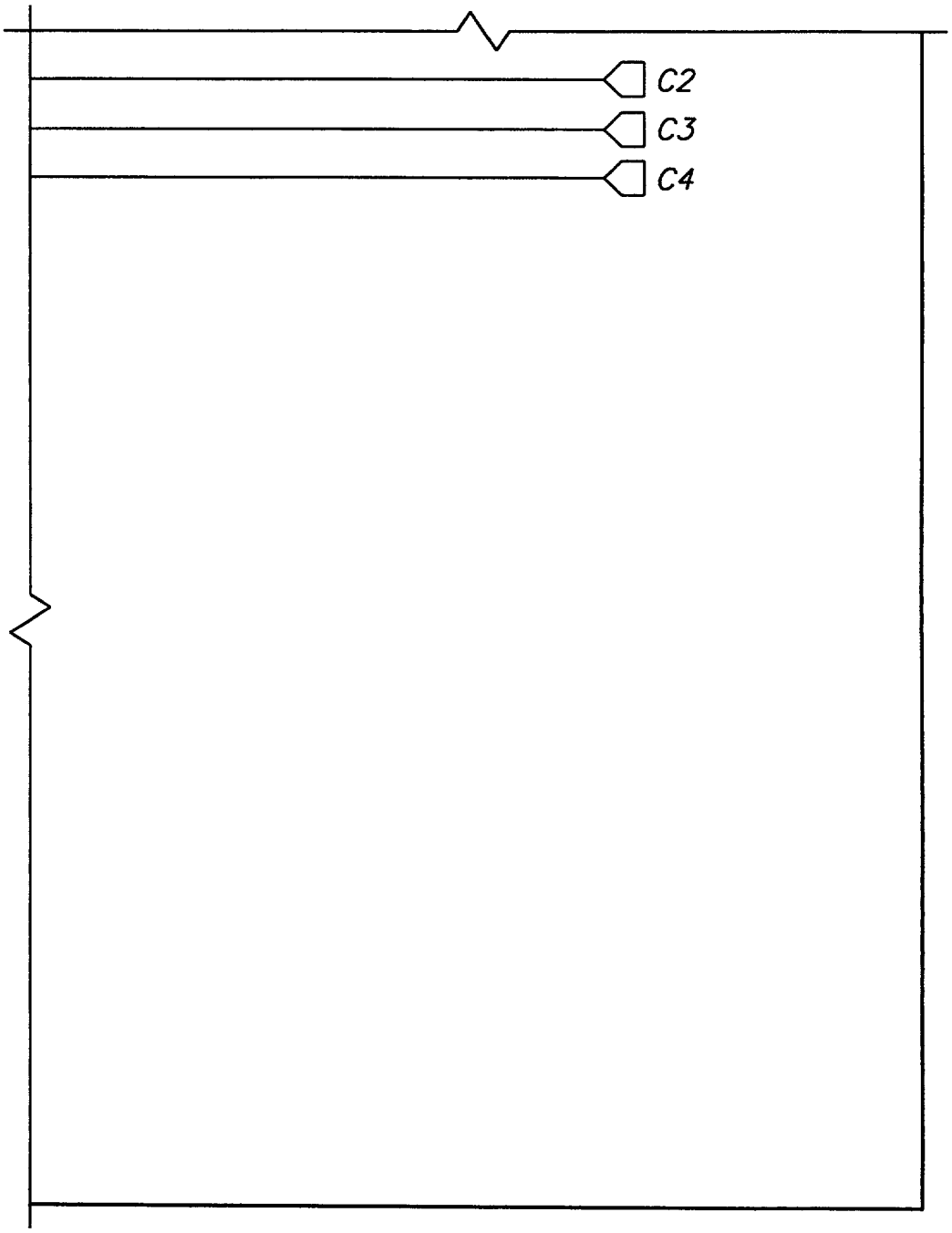


Fig 1.06CN

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7.0601CA	7.0601CB	7.0601CC	7.0601CD	7.0601CE	7.0601CF	7.0601CG	7.0601CH	7.0601CI
7.0601DA	7.0601DB	7.0601DC	7.0601DD	7.0601DE	7.0601DF	7.0601DG	7.0601DH	7.0601DI
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Fig 7.0601

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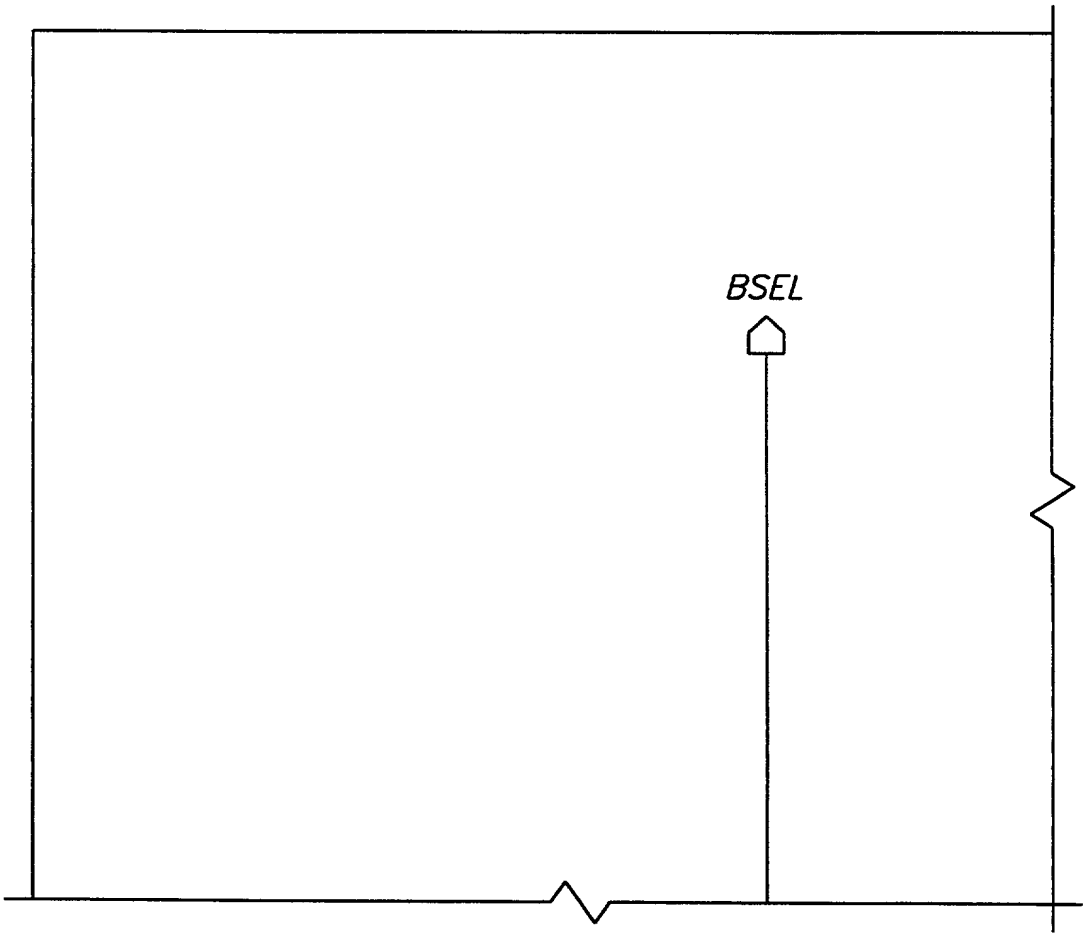


Fig 1.0601AA

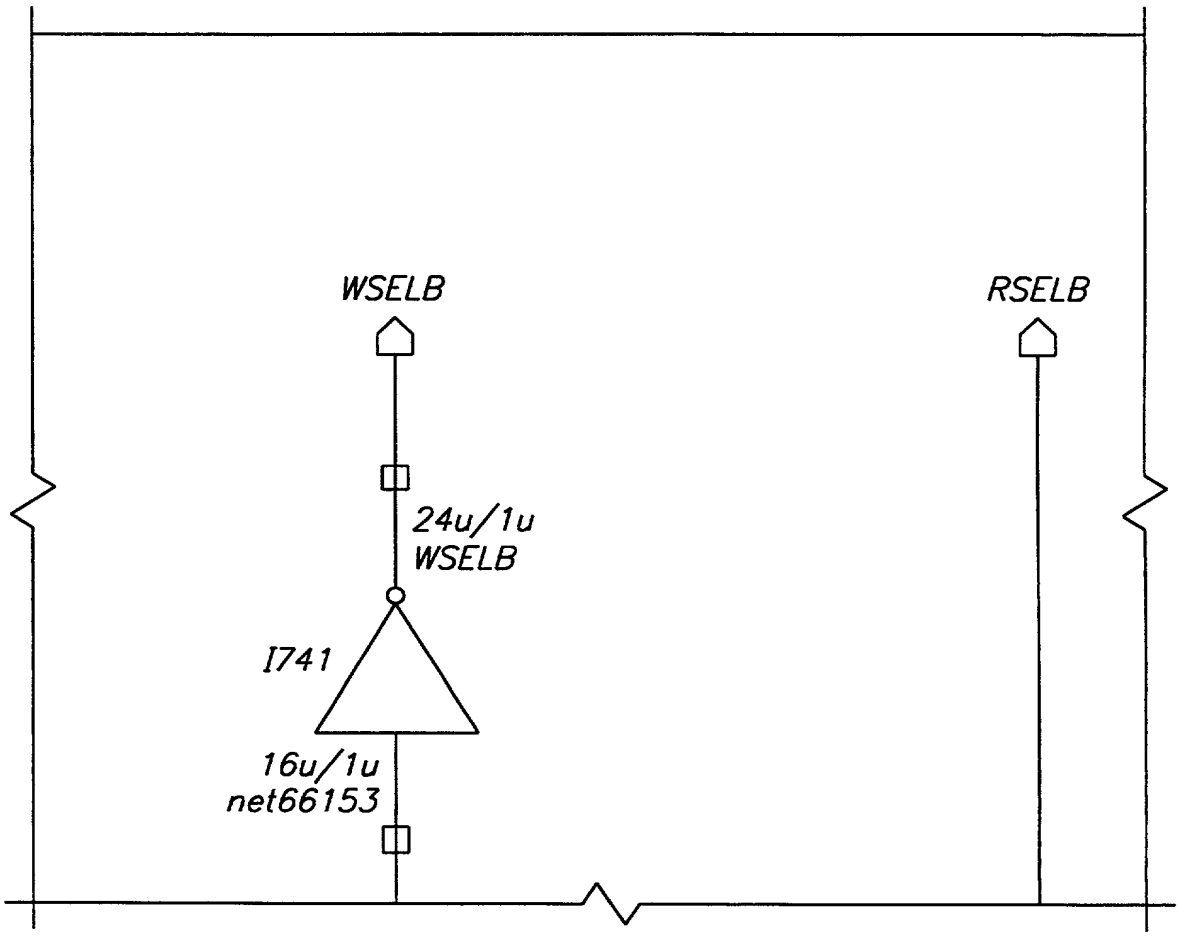


Fig 1.0601AB

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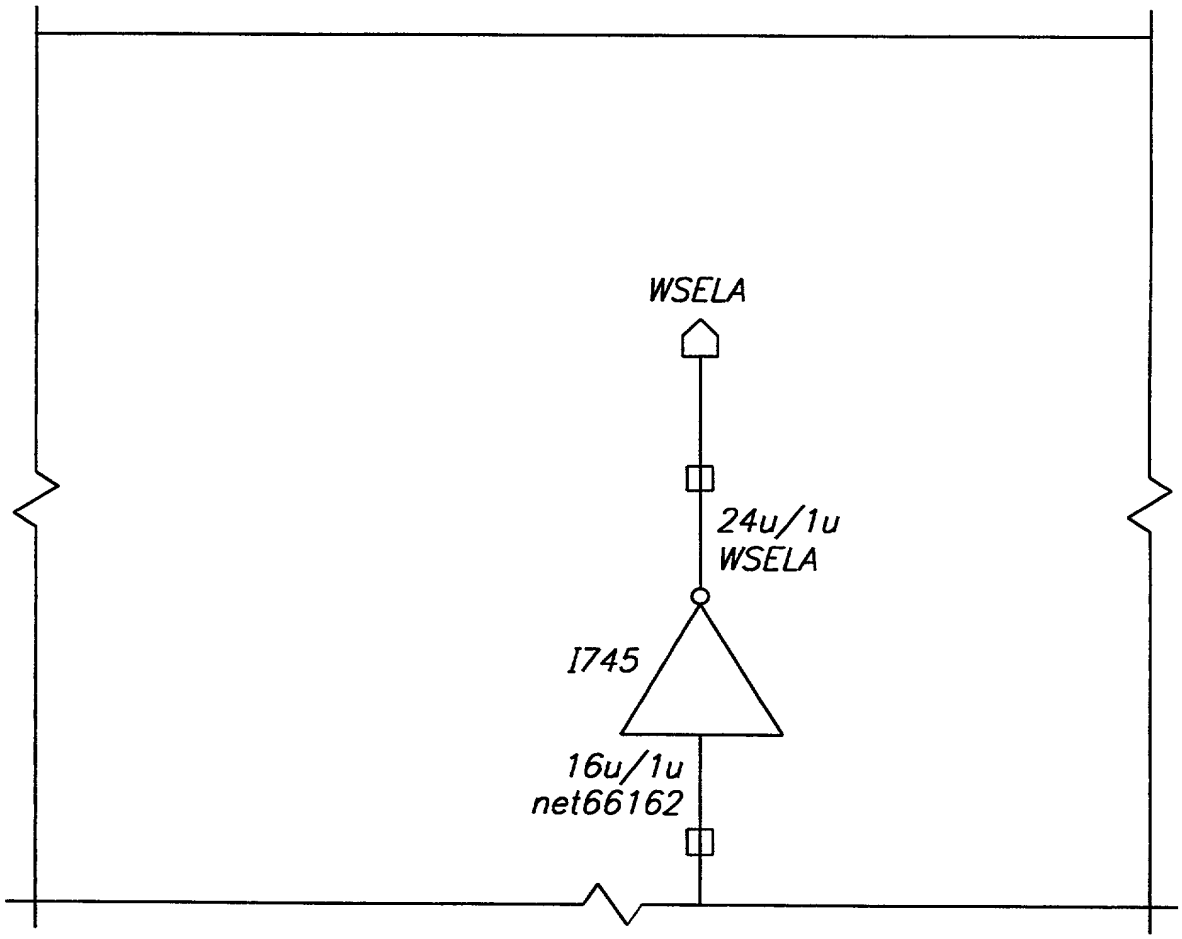


Fig 1.0601AC

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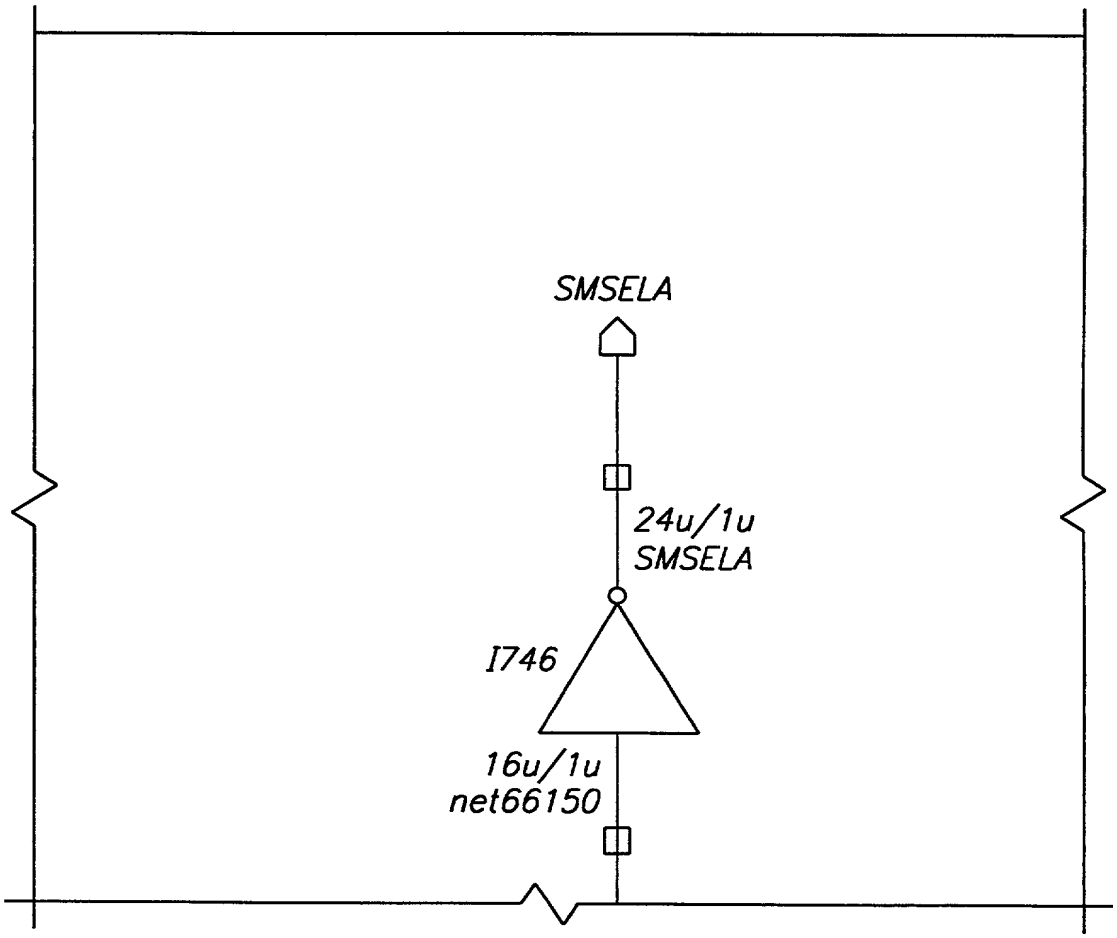


Fig 1.06010AD

Patent application publication

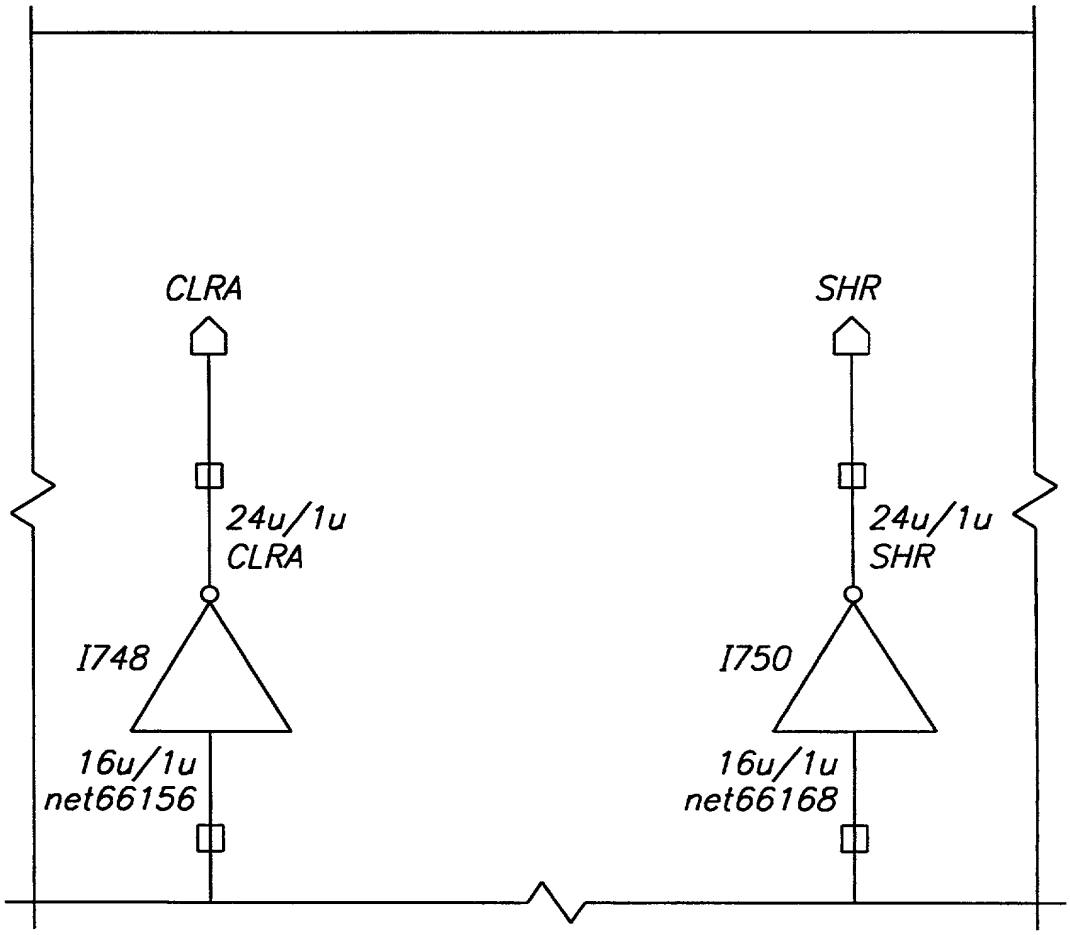


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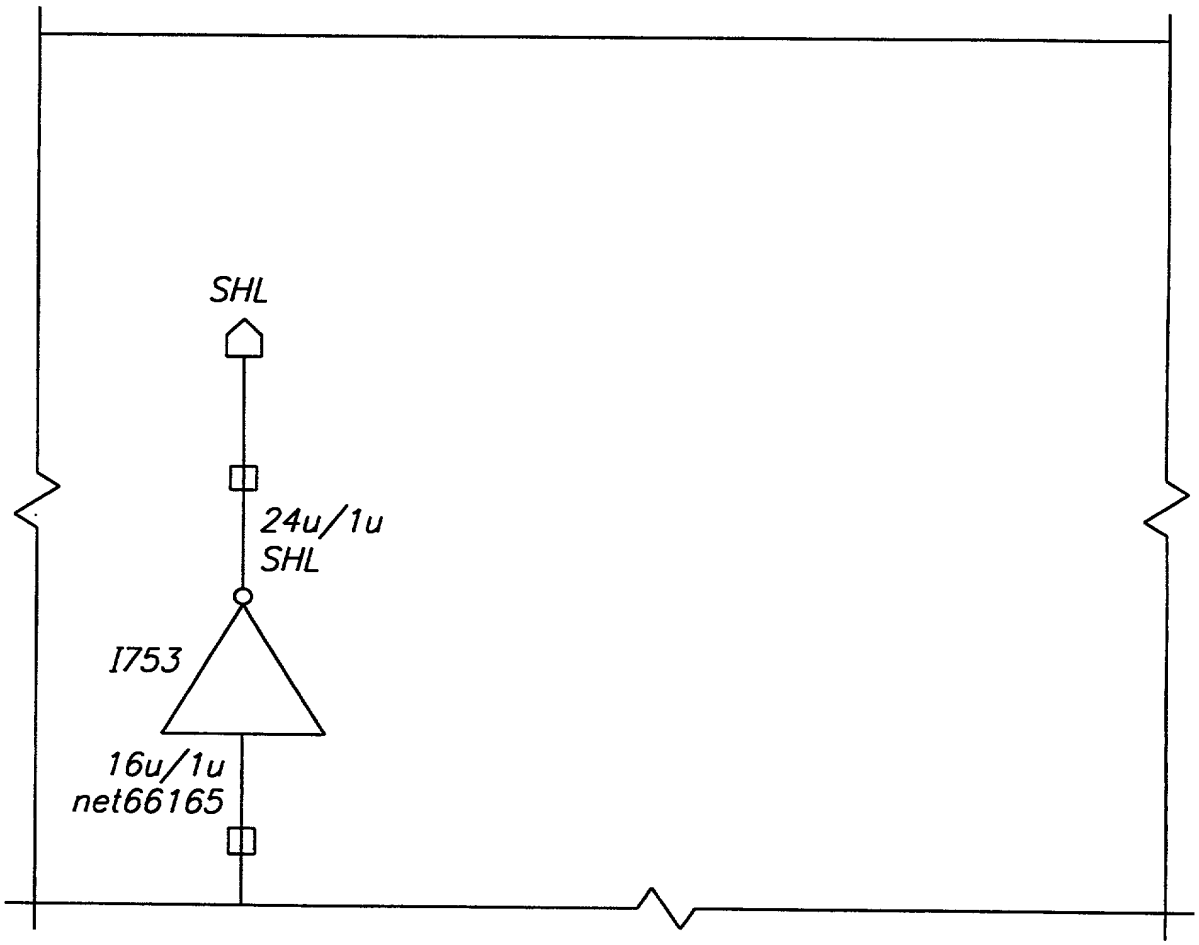


Fig 1.0601AF

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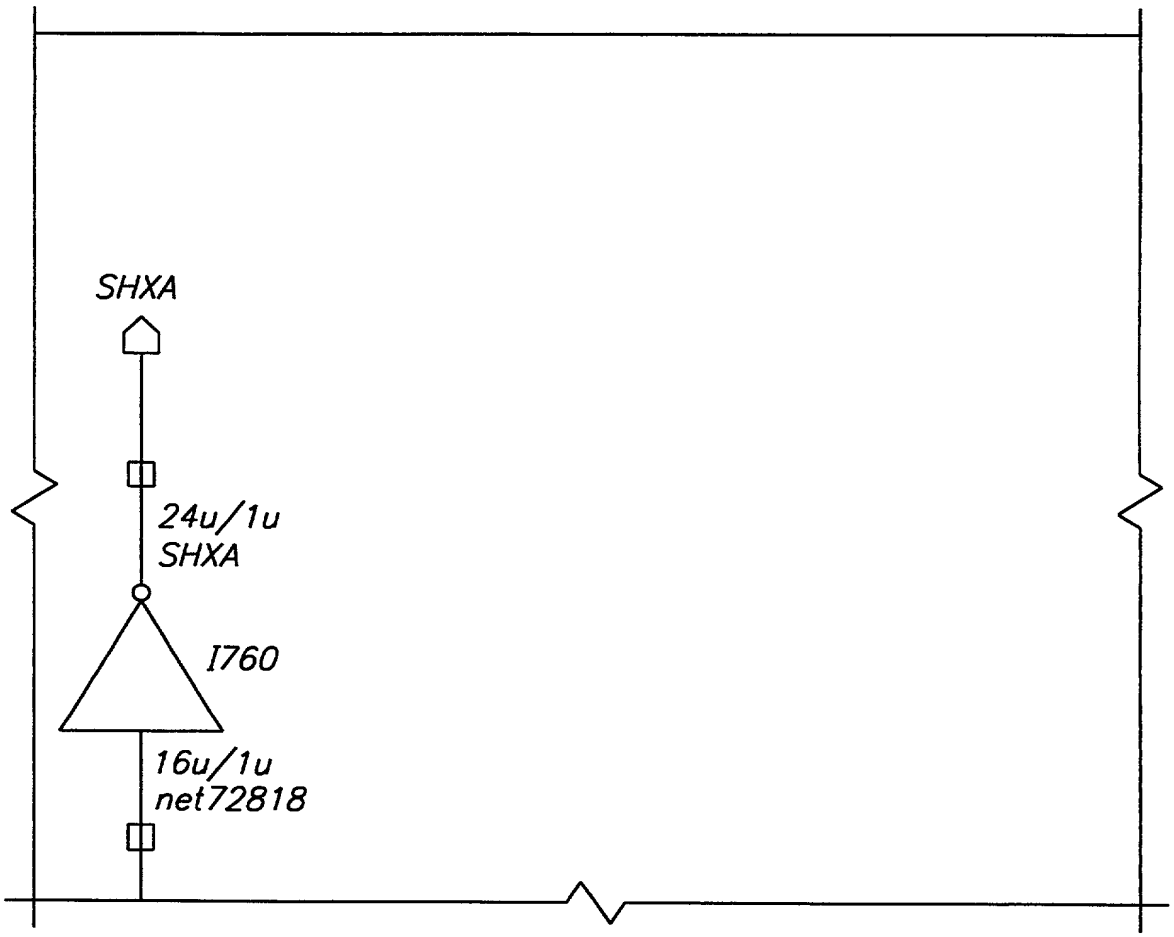


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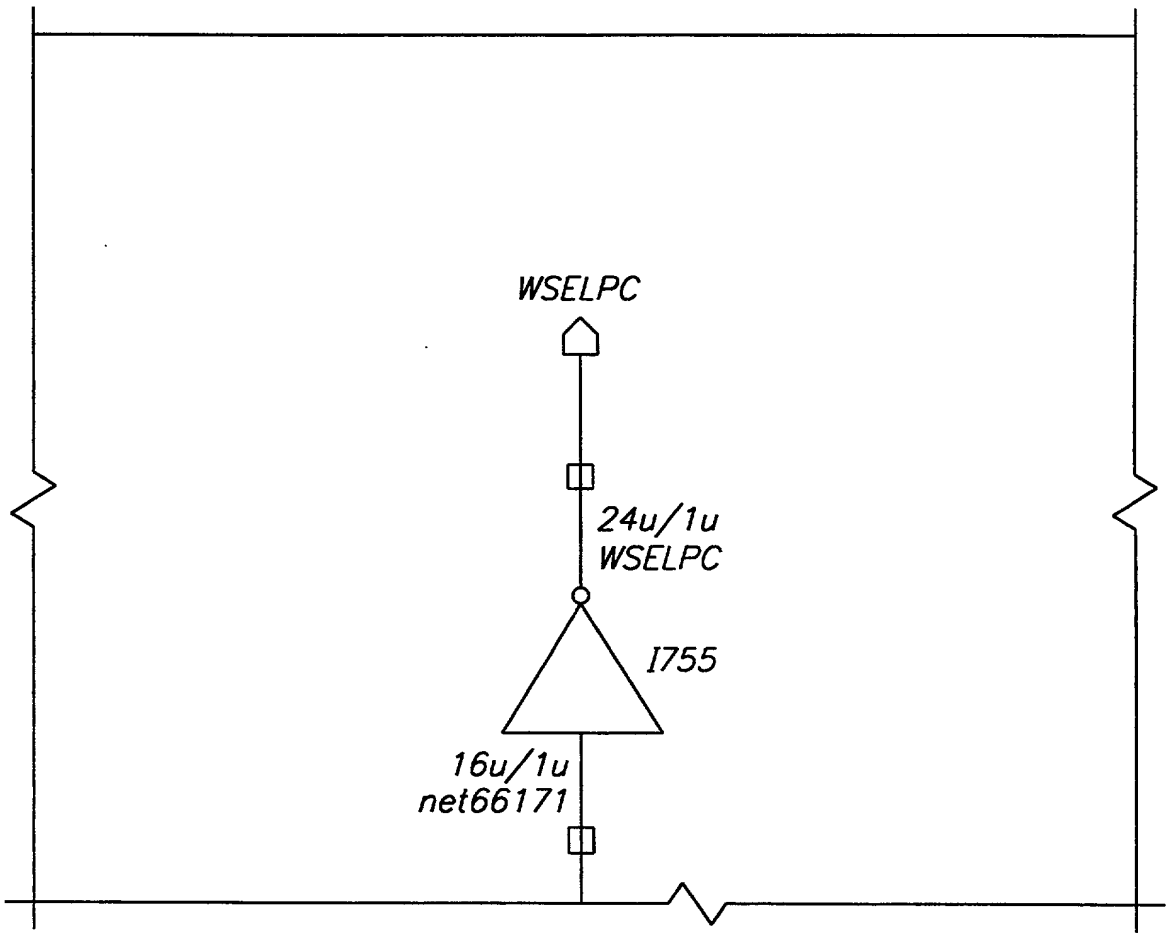


Fig 1.0601AH

US 9,954,560 B2

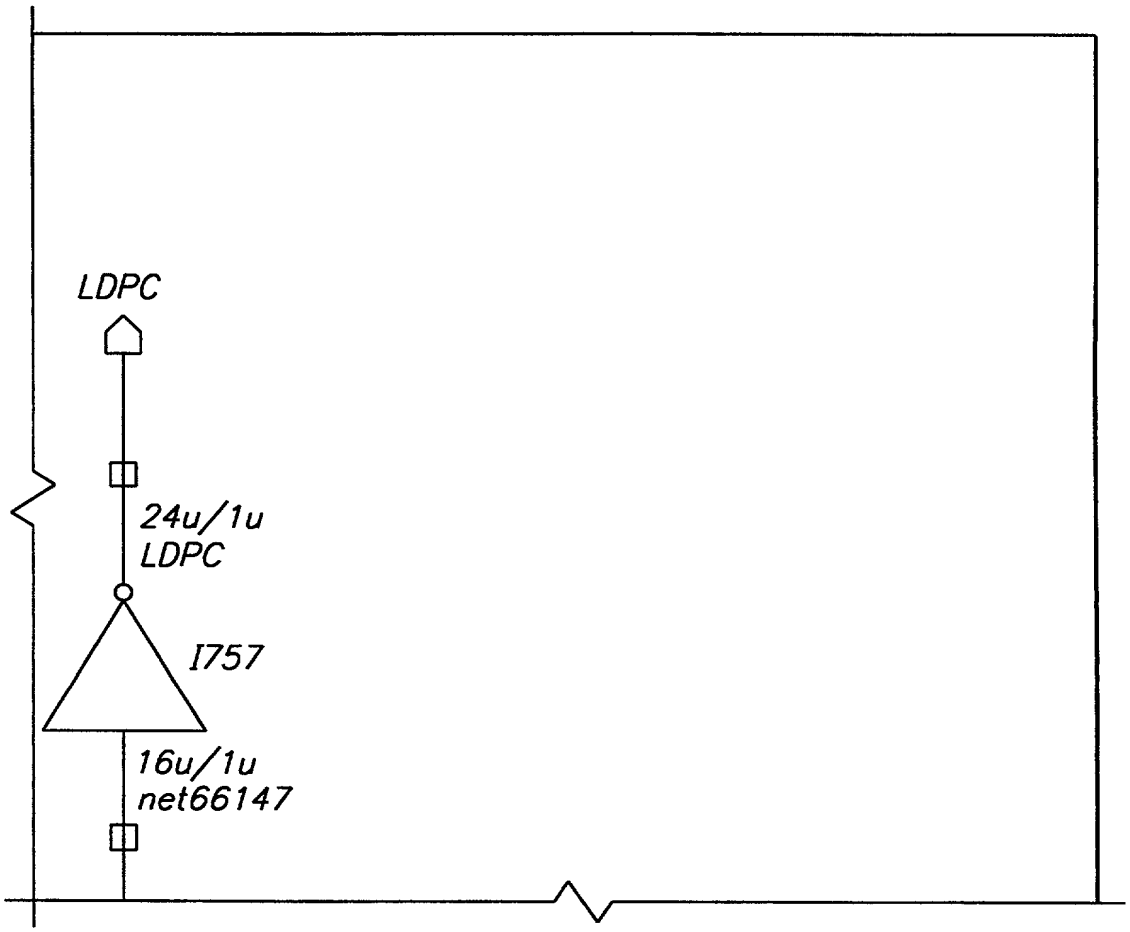


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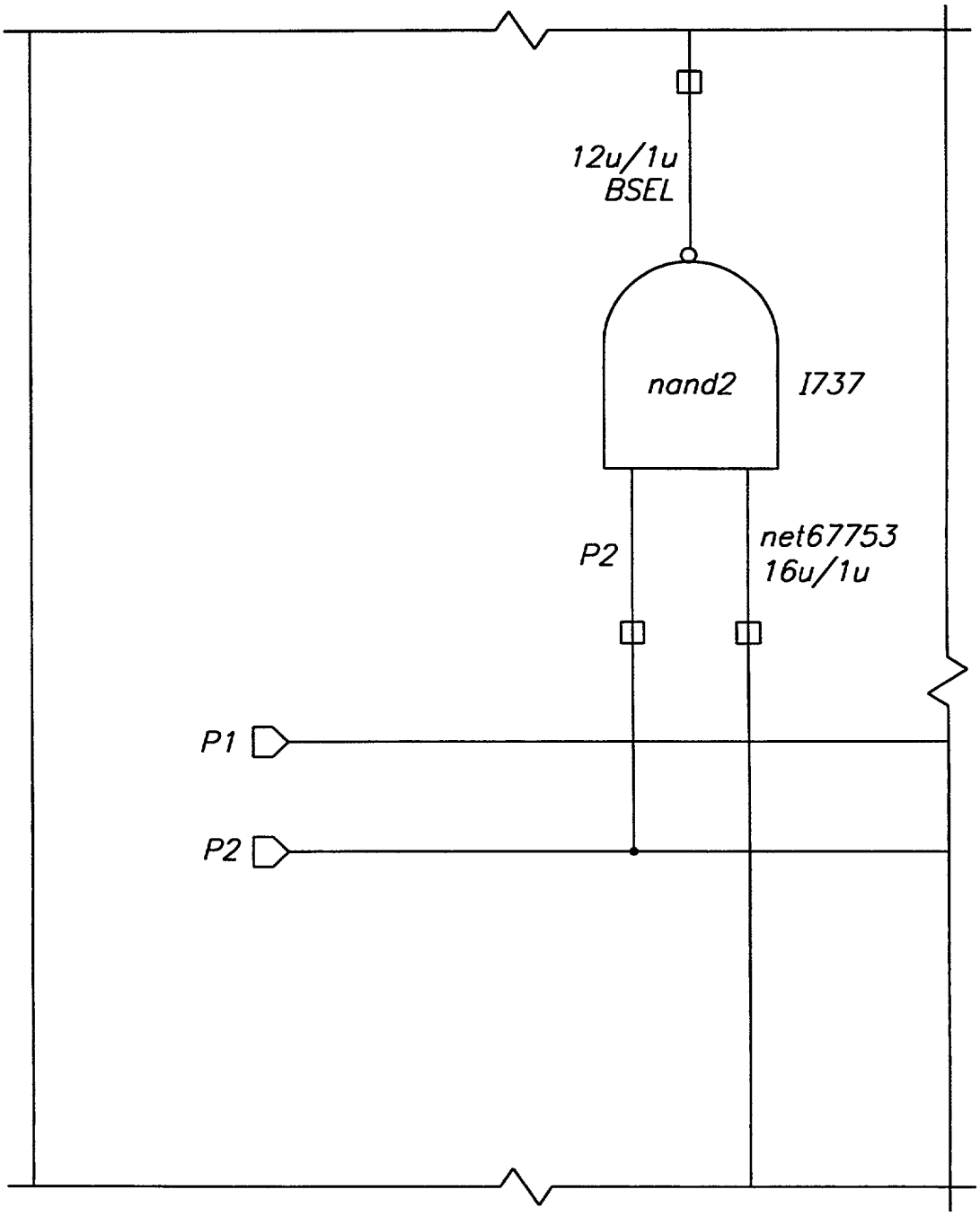


Fig 1.06011BA

US5825659 - 06-11-1998

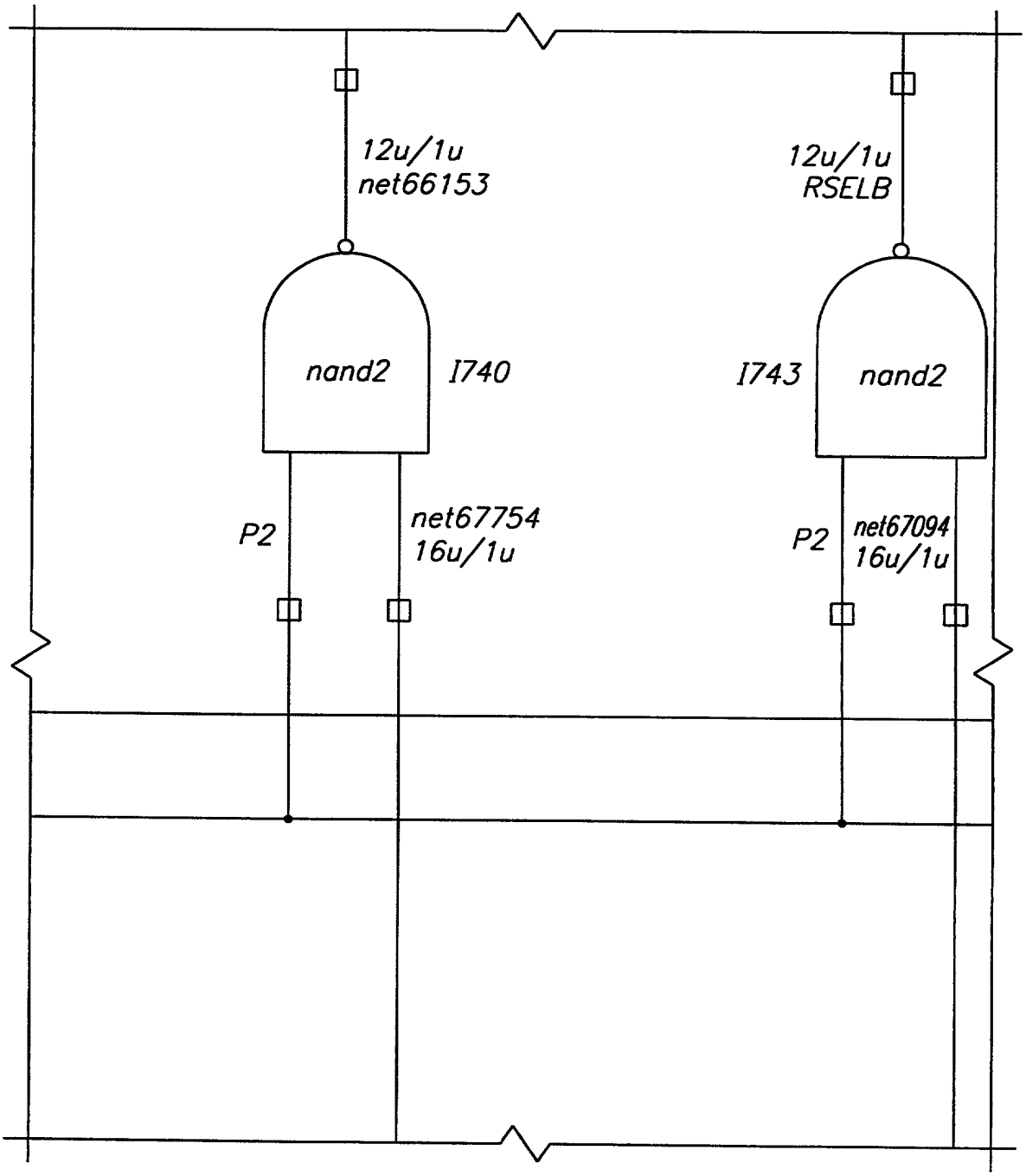


Fig 1.0601BB

US5952865

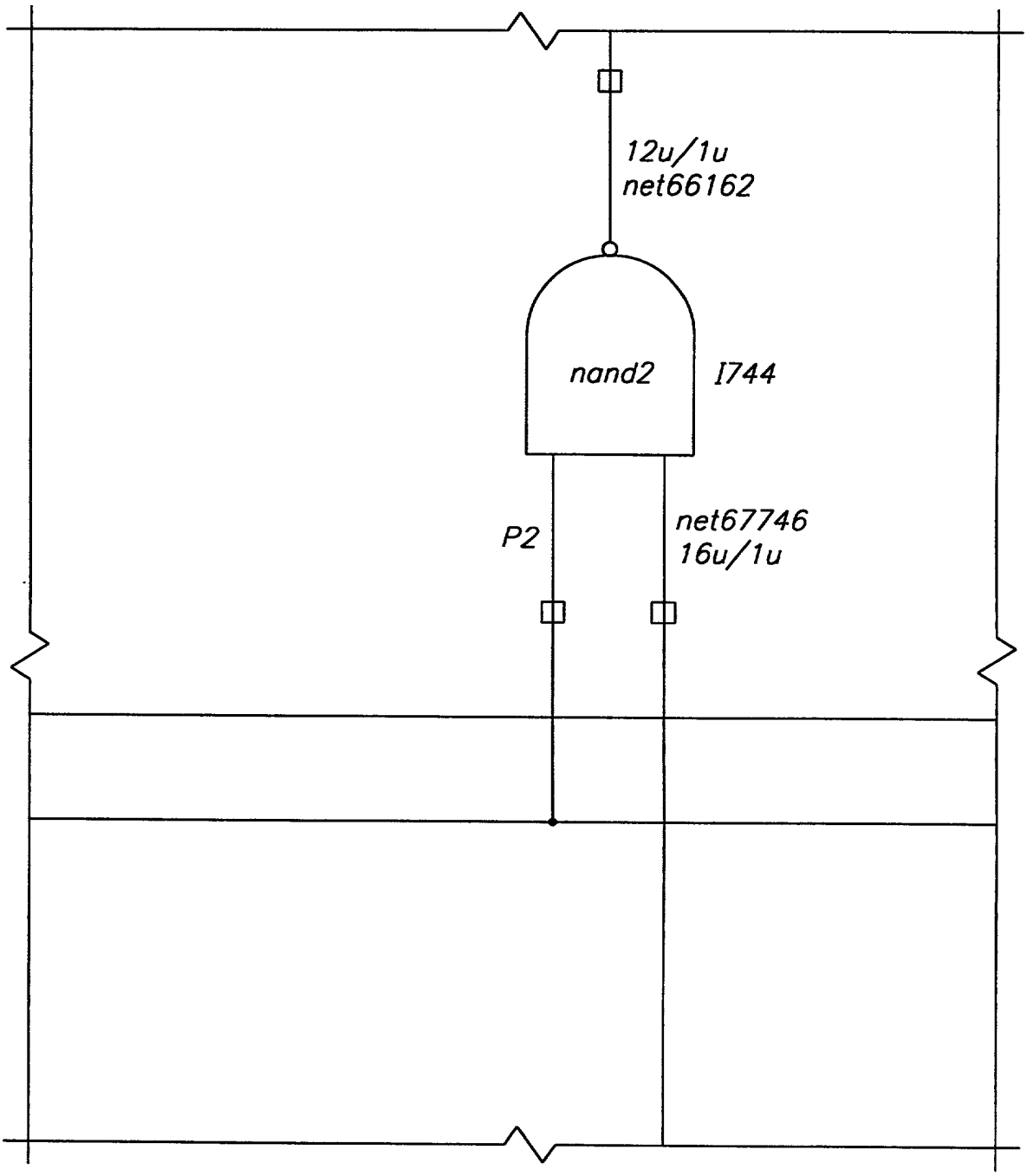


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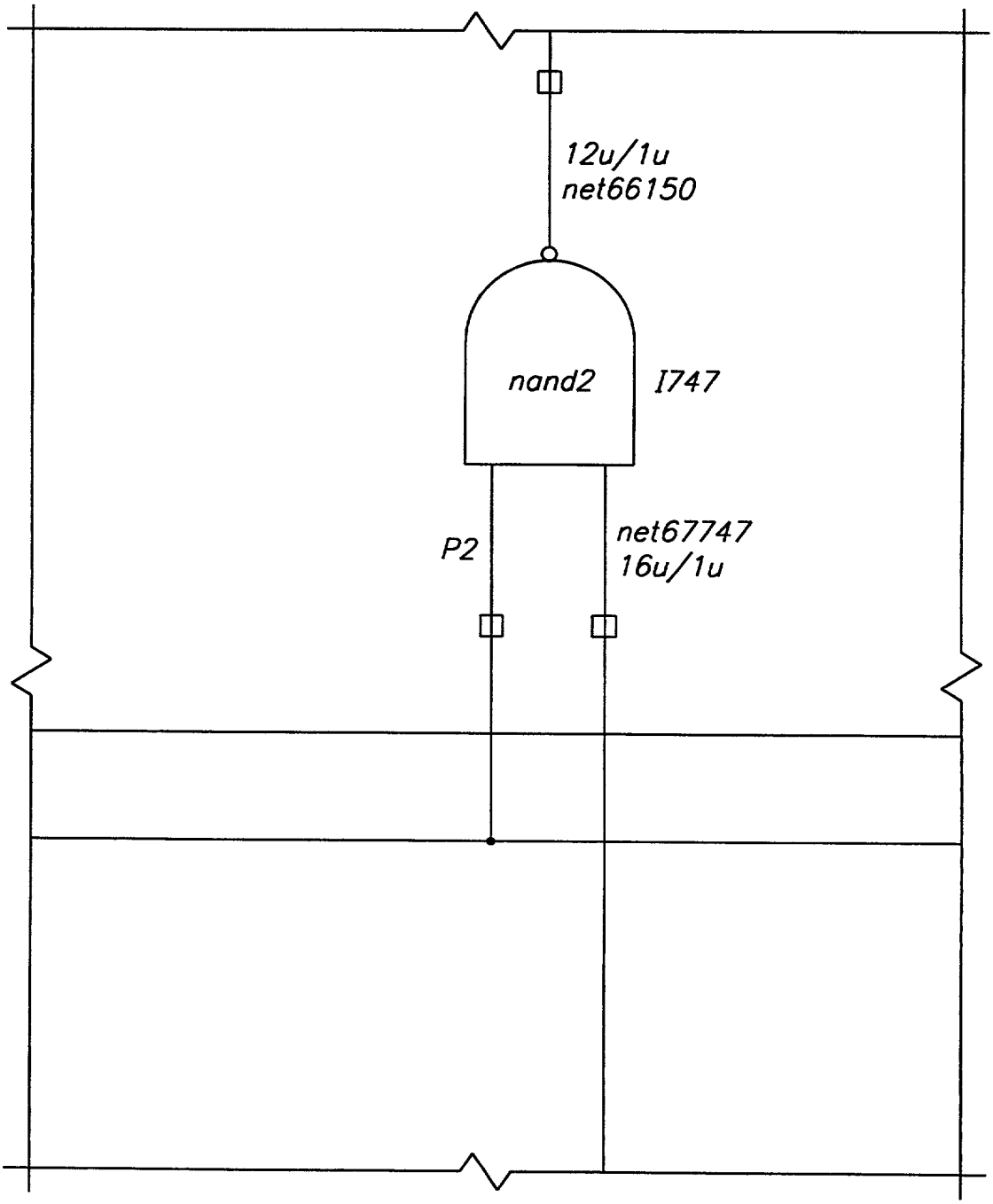


Fig 1.060180

Synopsys, Inc.

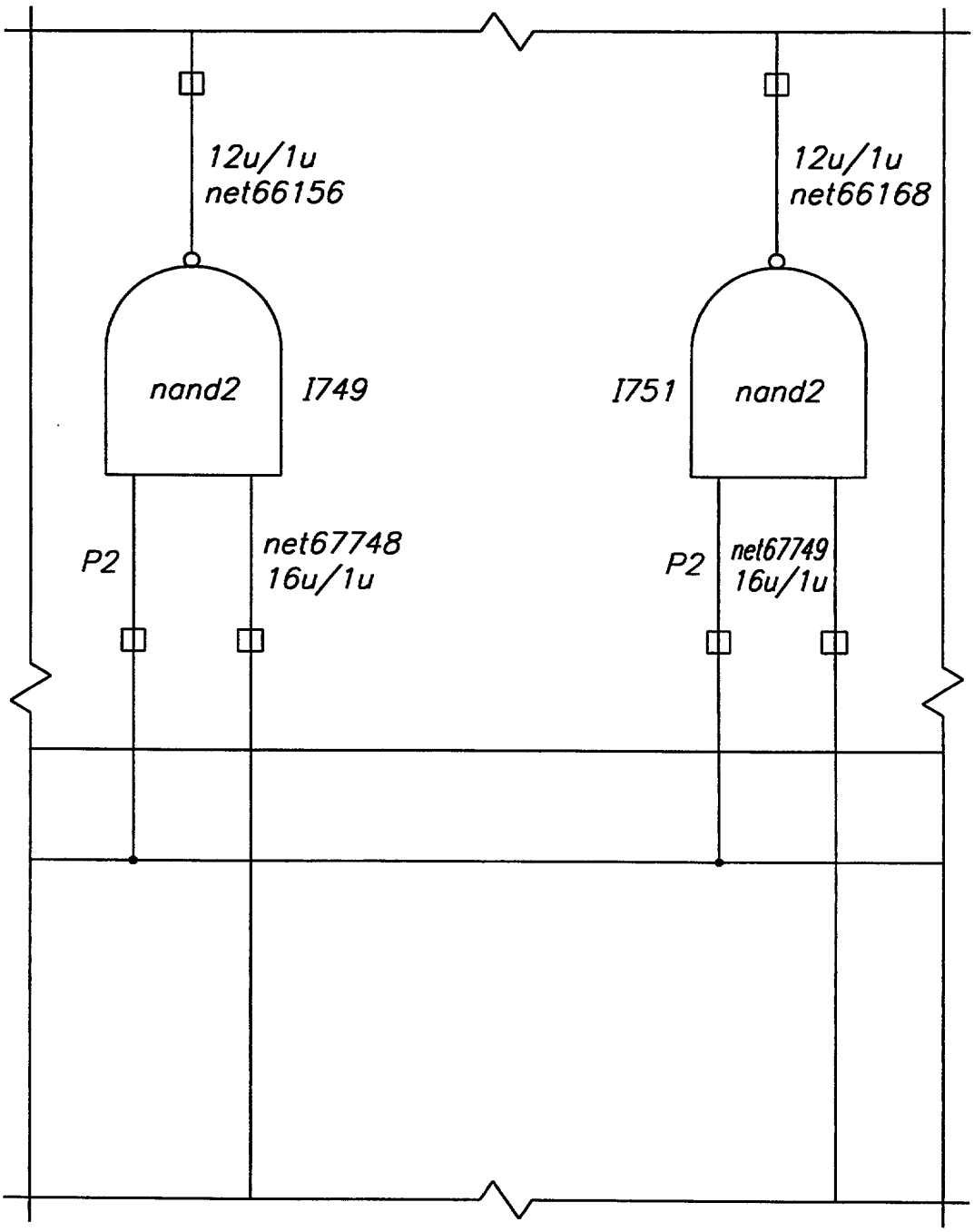


Fig 3.06018E

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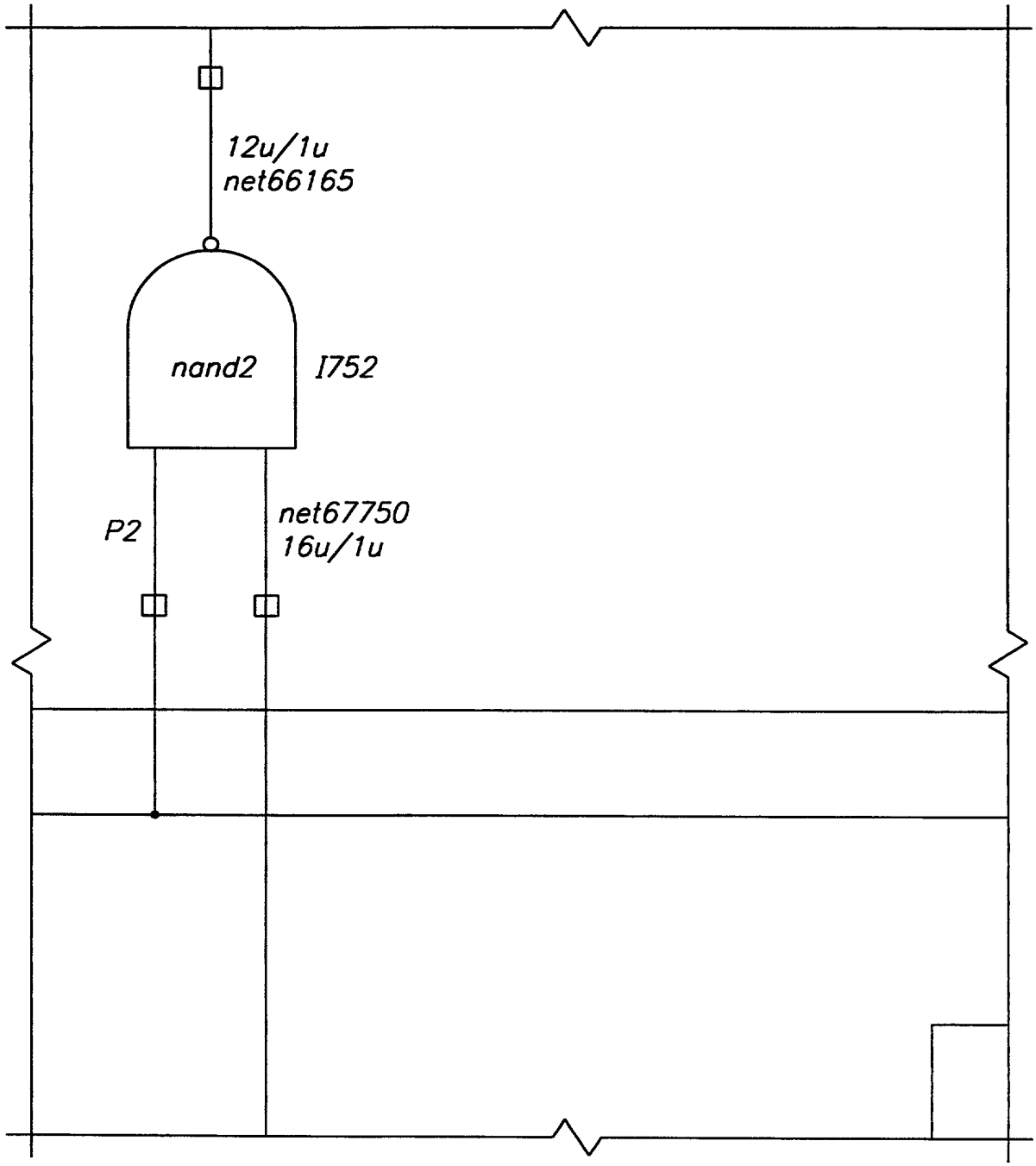


Fig 7.06018F

Patent application publication

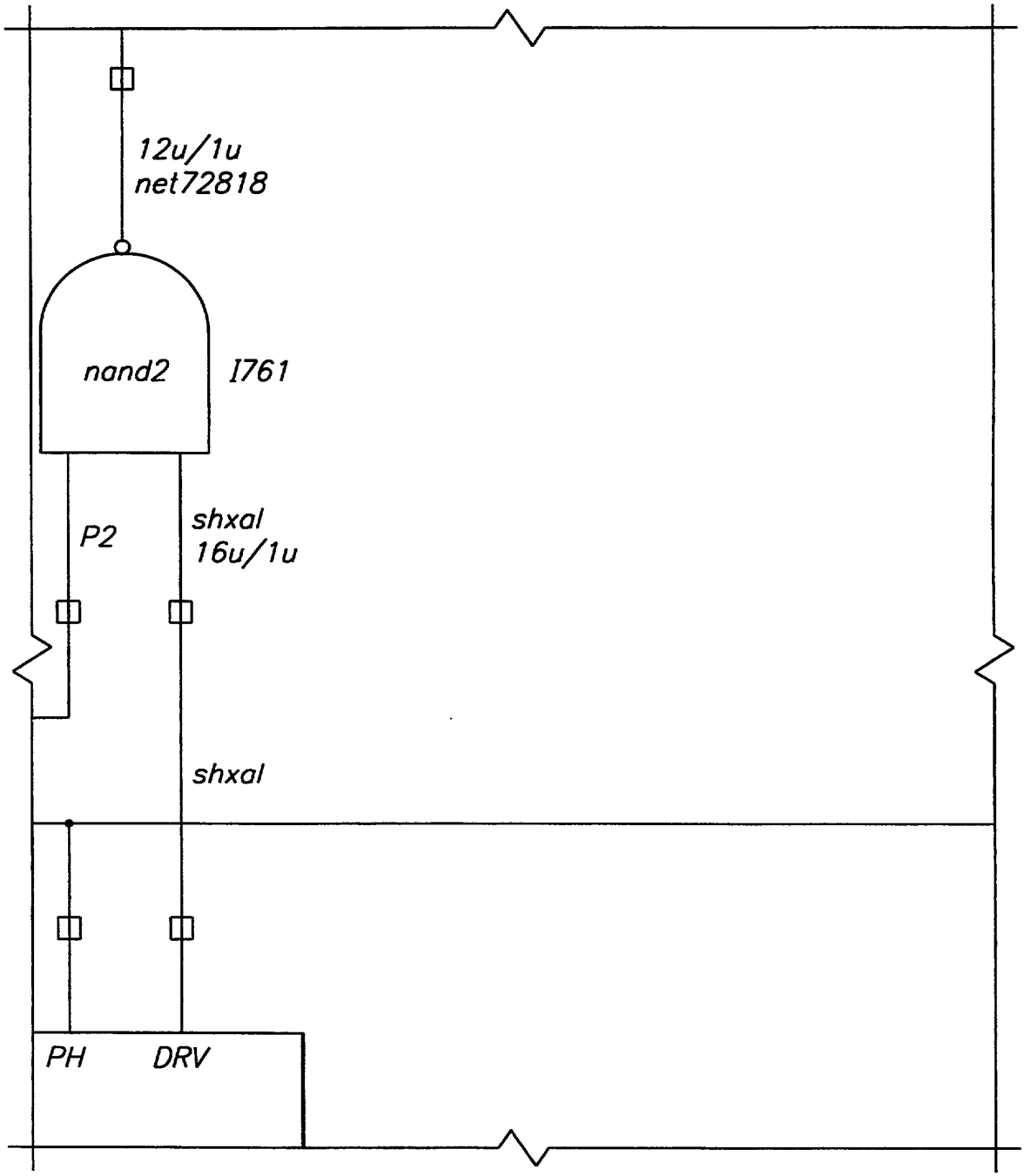


Fig 1.0601186

Patent-Datenbank

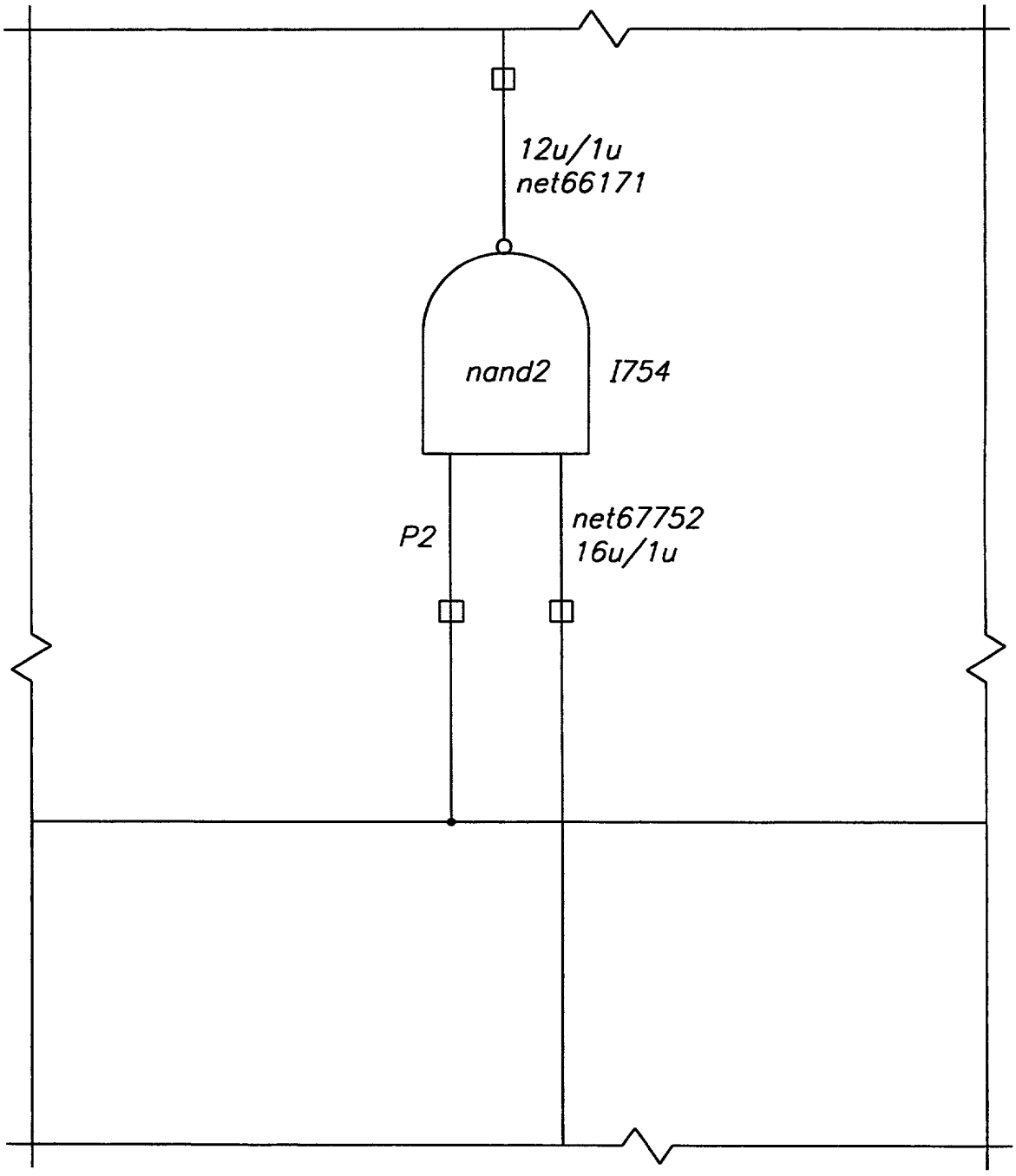


Fig 1.0601BH

Patent Document

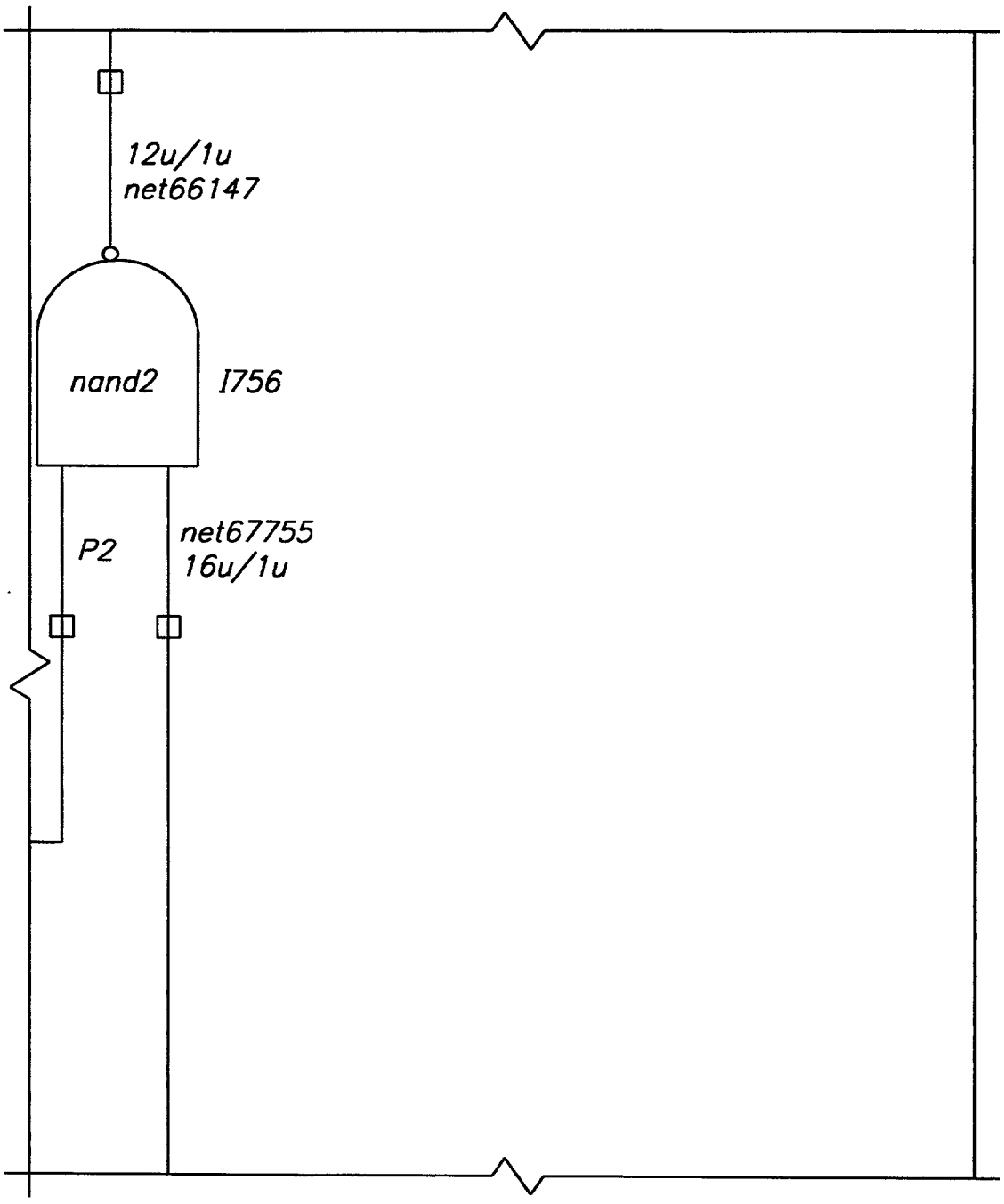


Fig 7.06011B1

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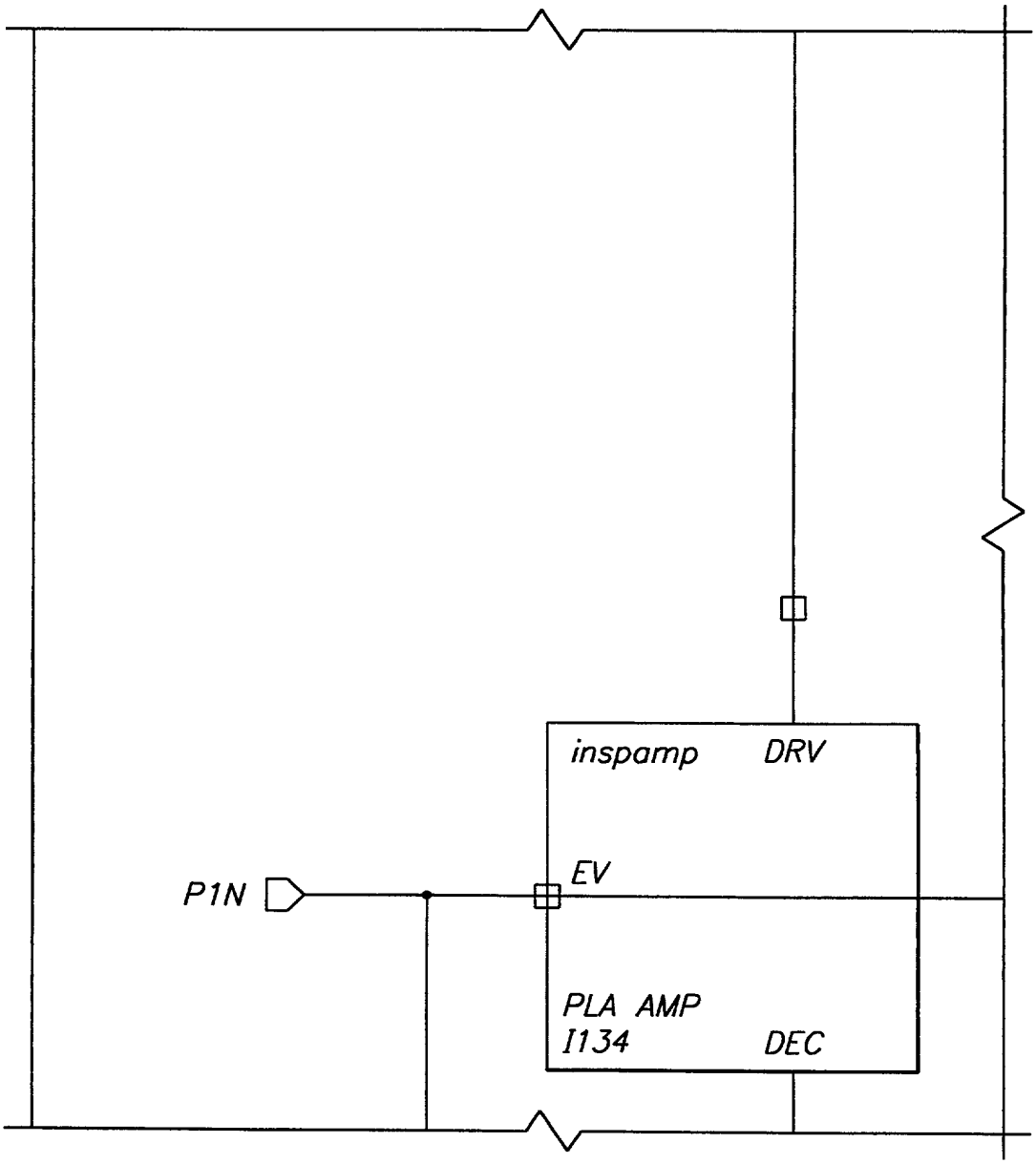


Fig 1.0601CA

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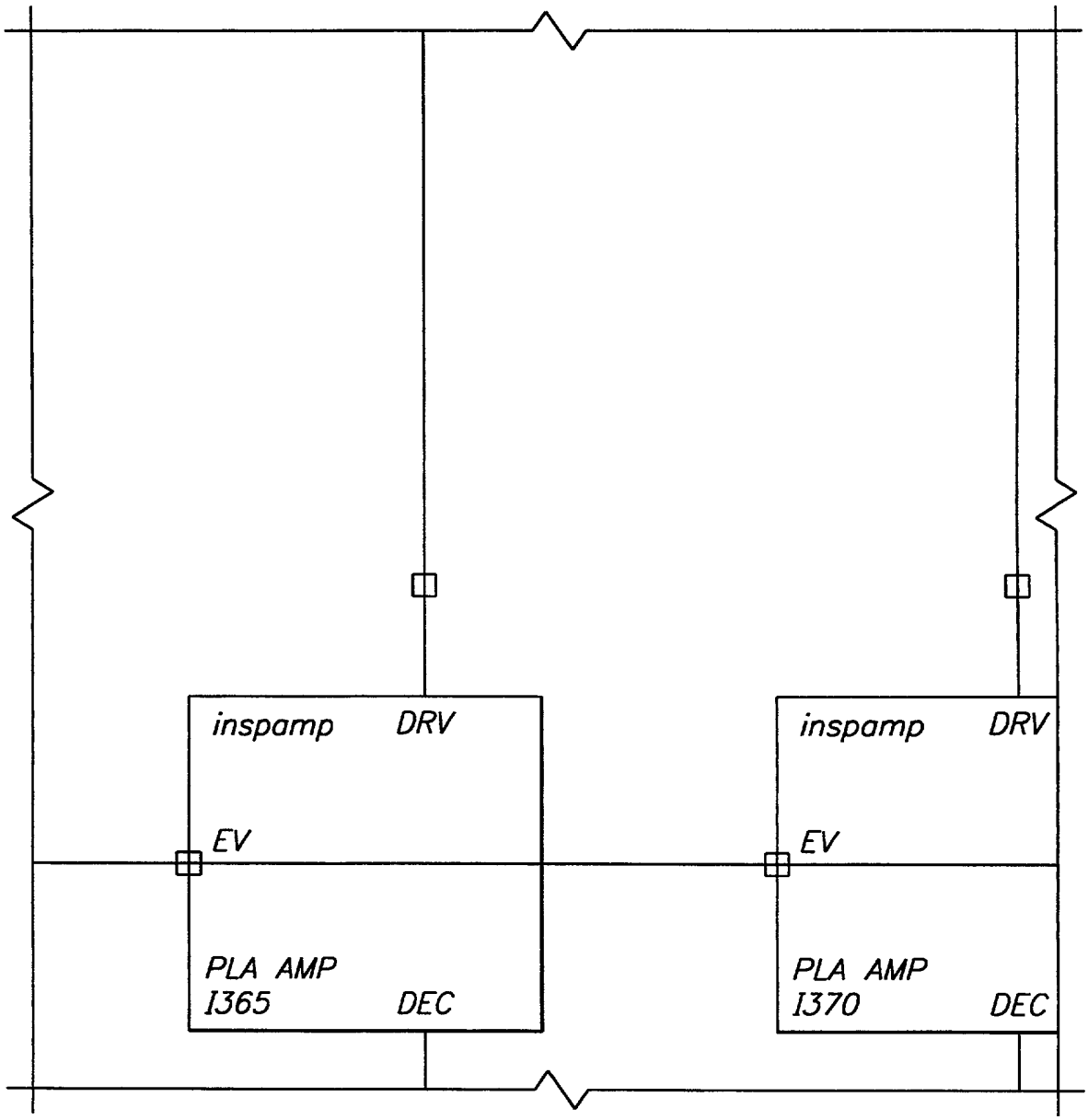


Fig 1.060ICB

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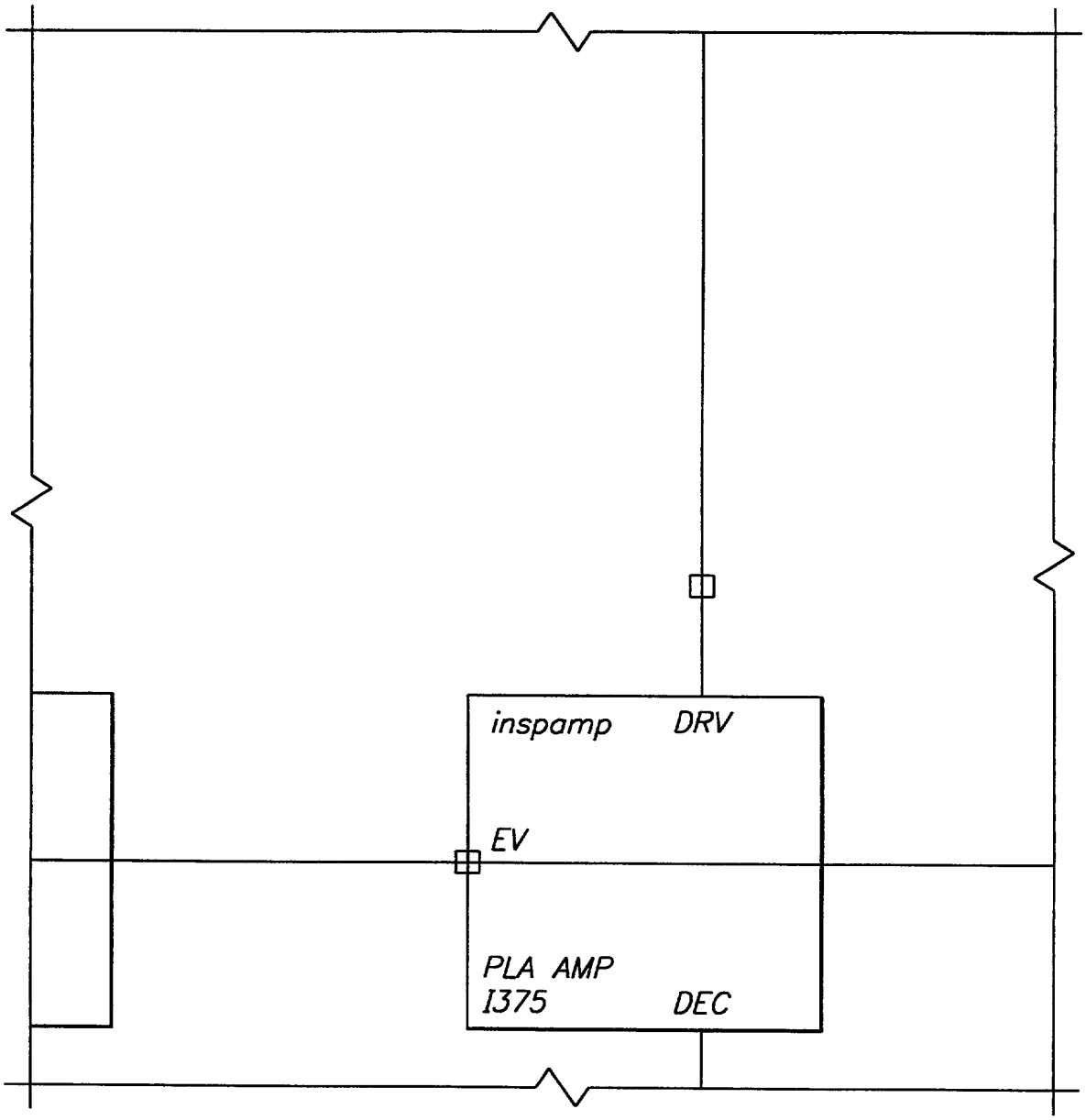


Fig 1.060ICC

Document 3273/511

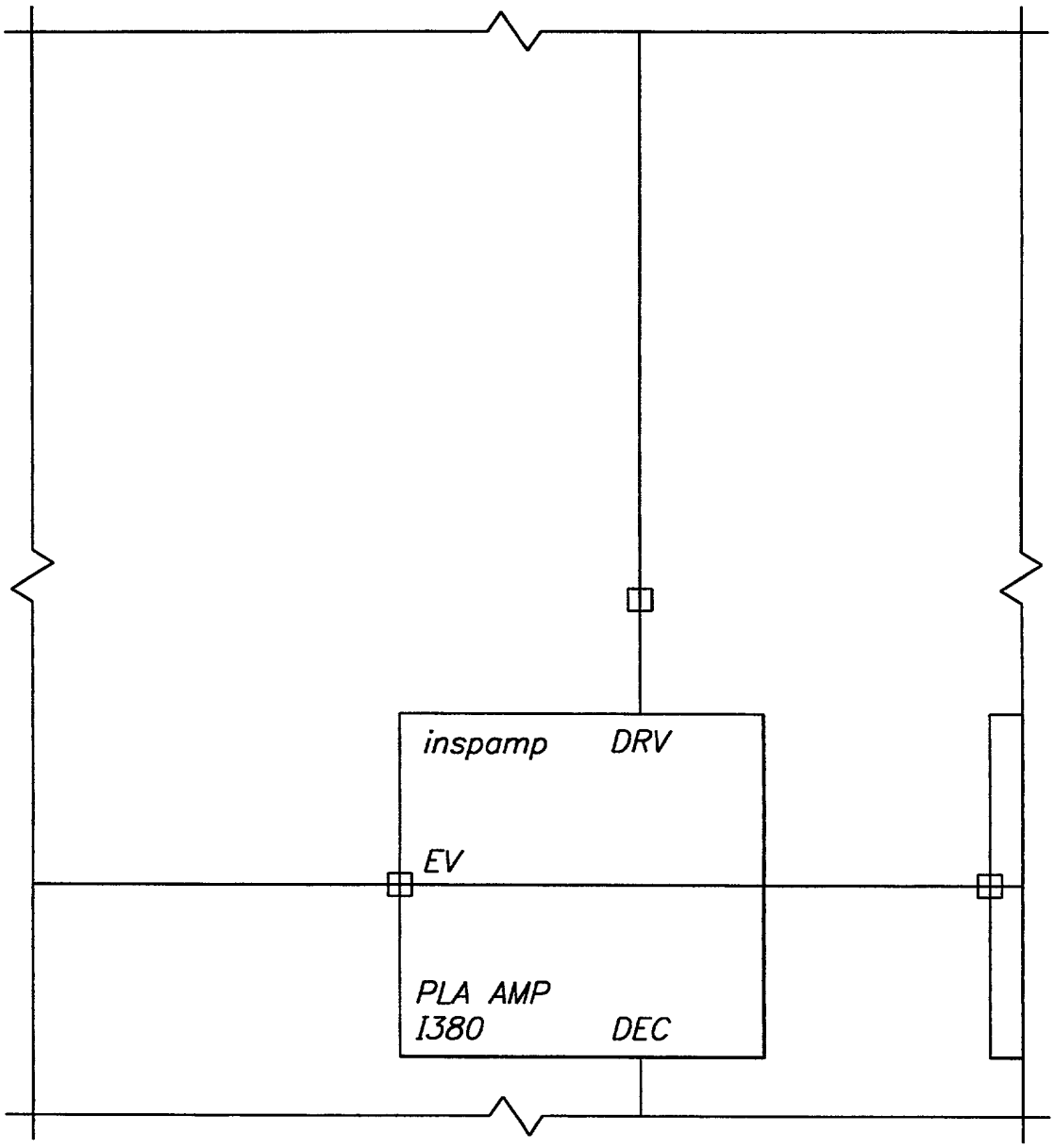


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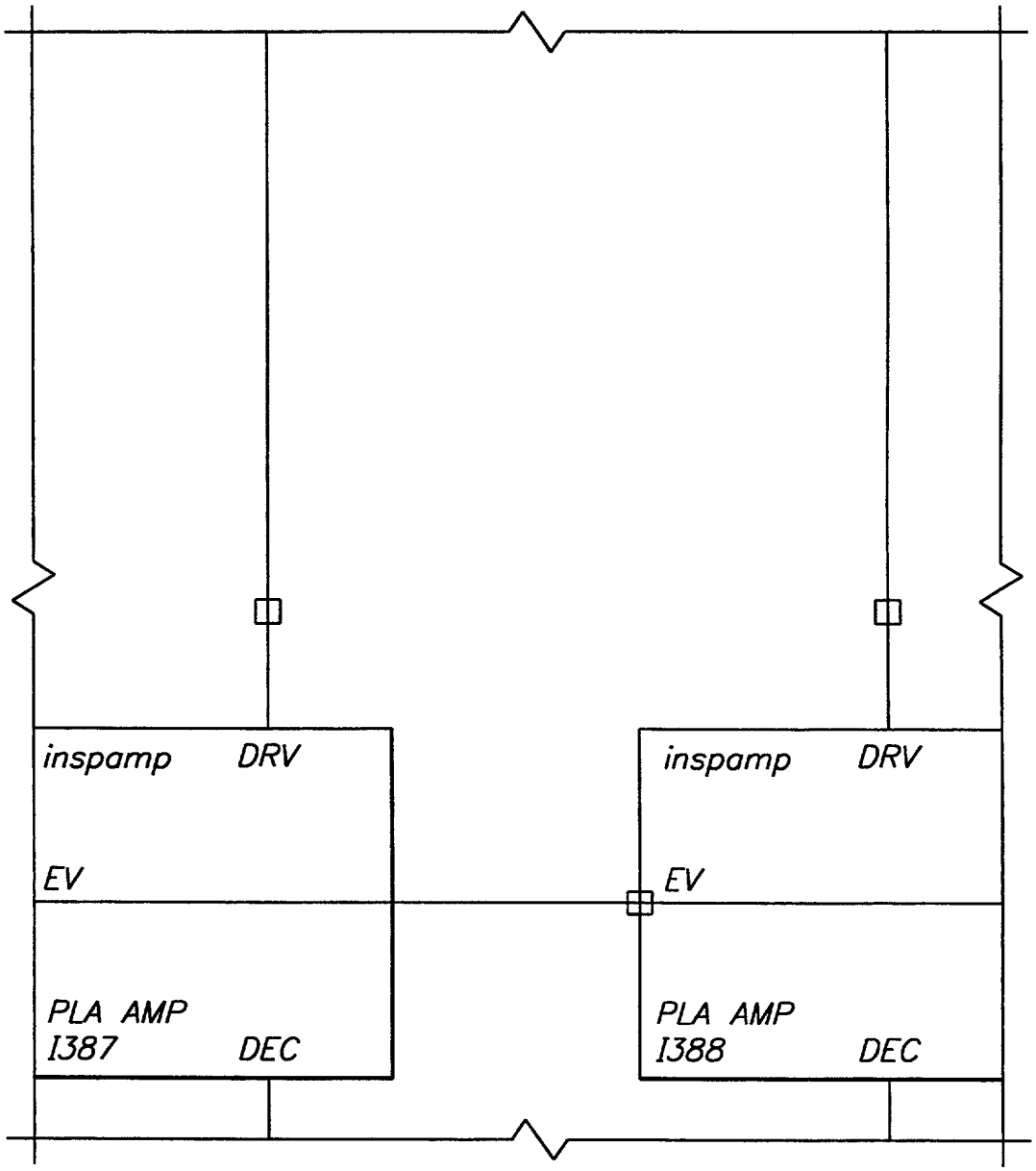


Fig 1.060ICE

Copyright Escort Ltd 1995

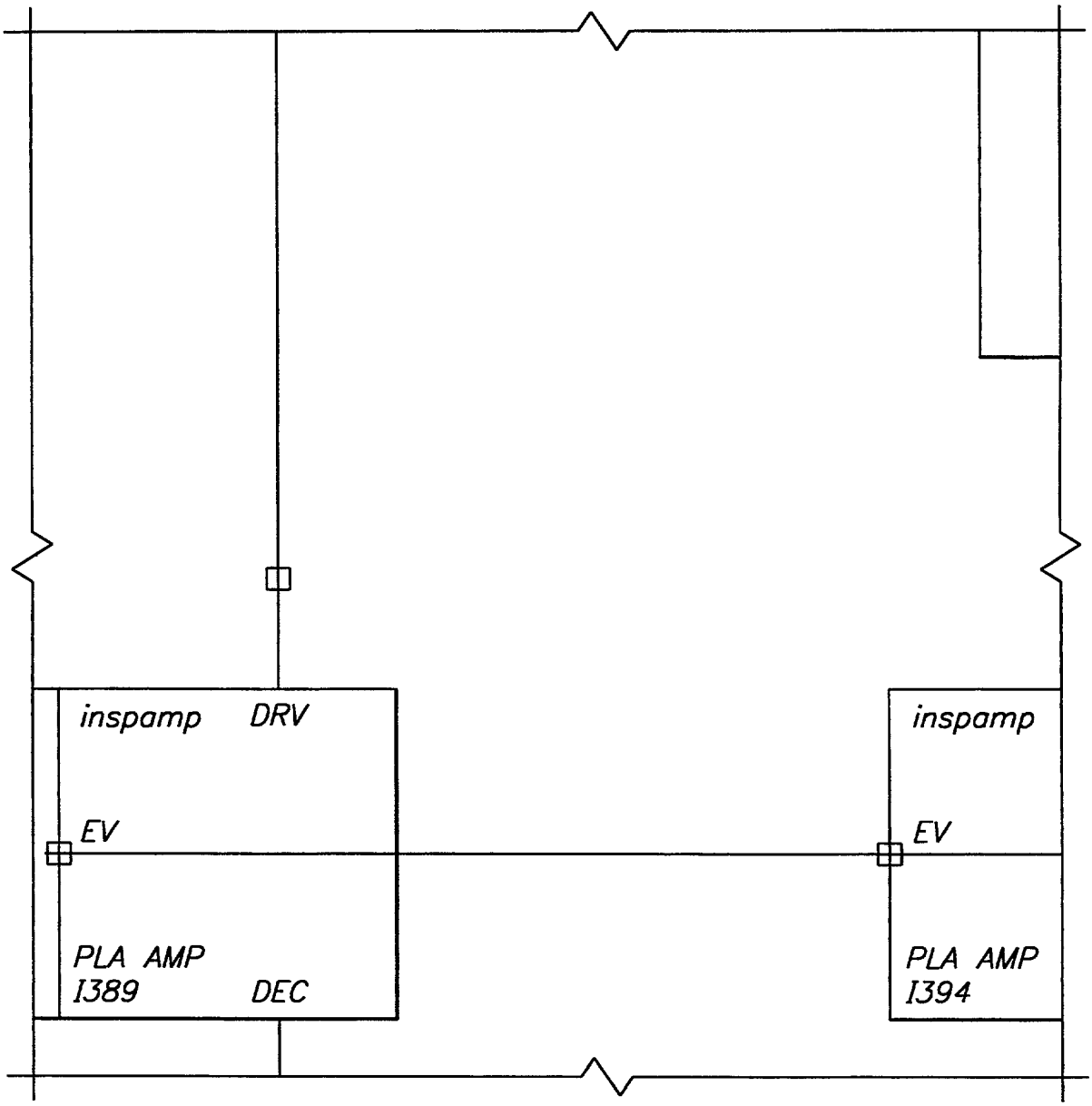


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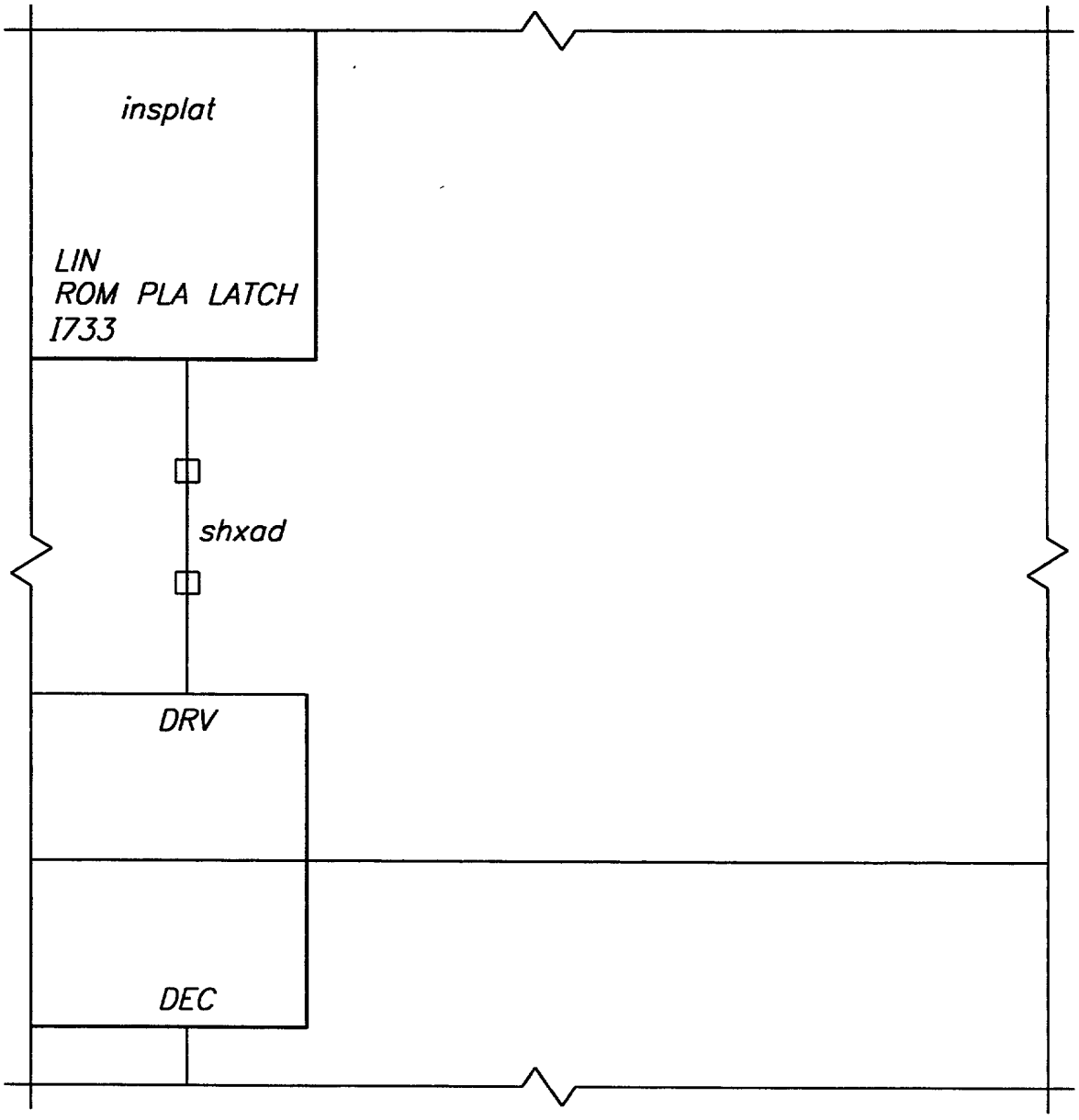


Fig 1.06016

US5295259

0582505 05454

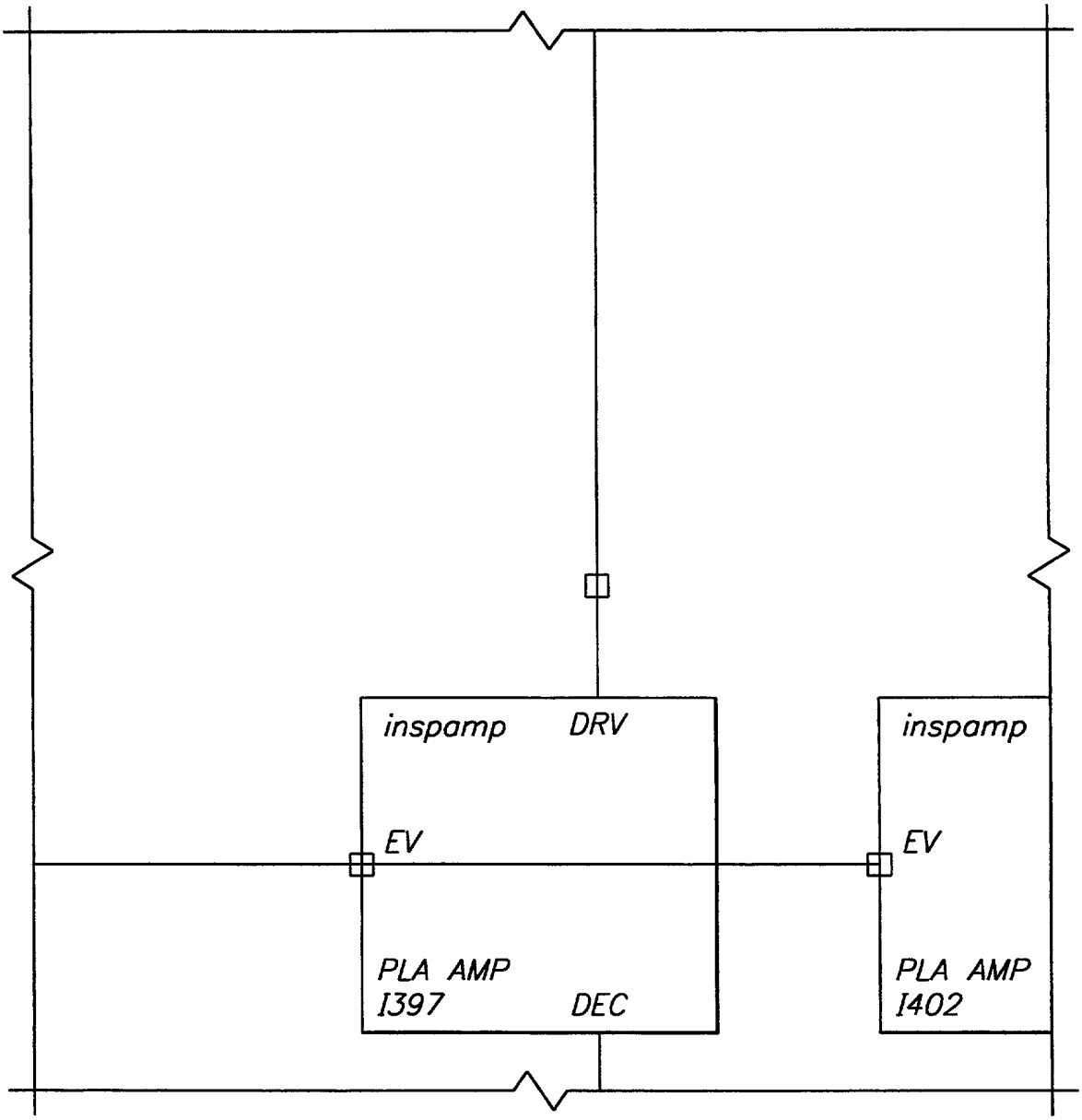


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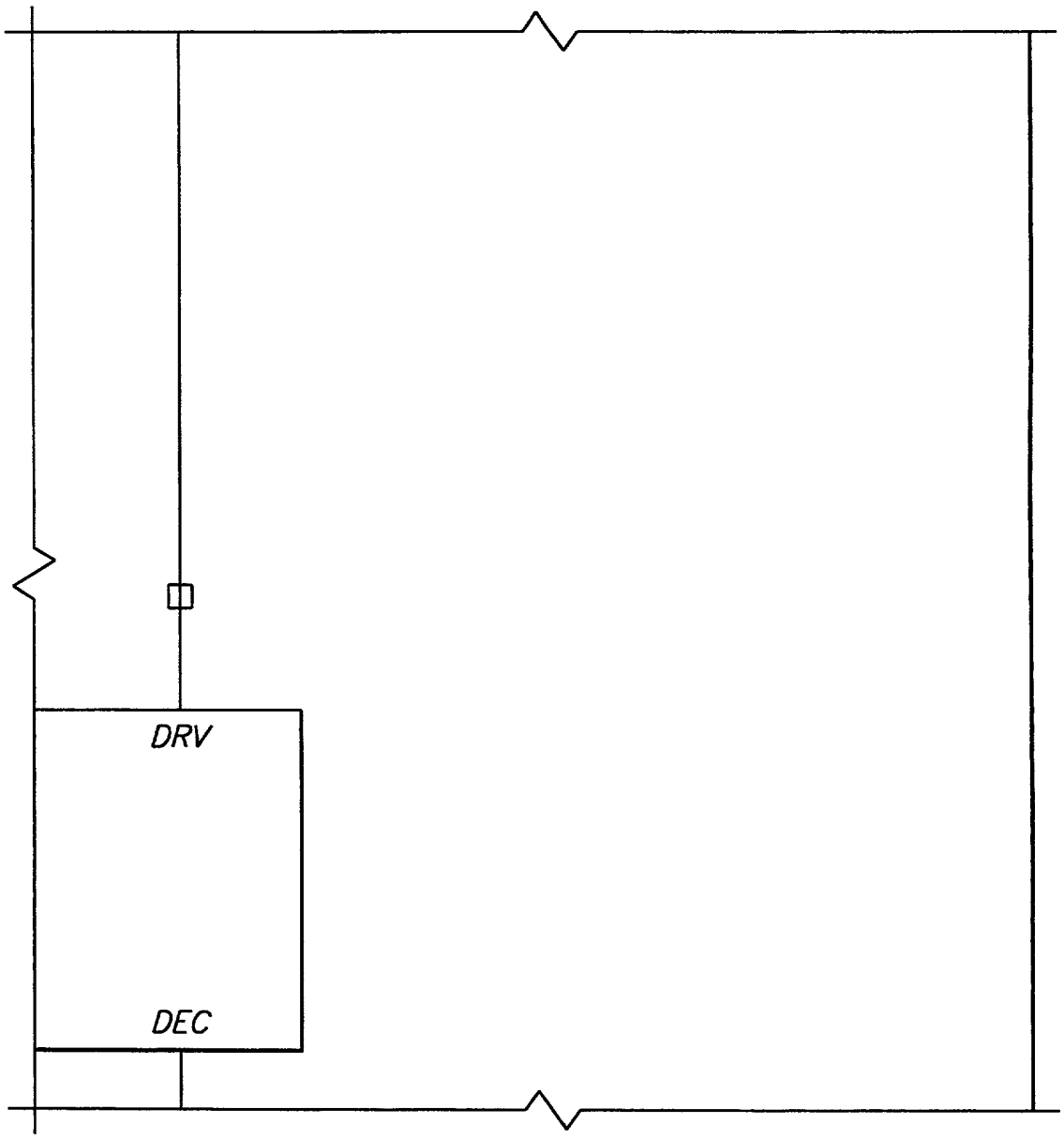


Fig 1.060101

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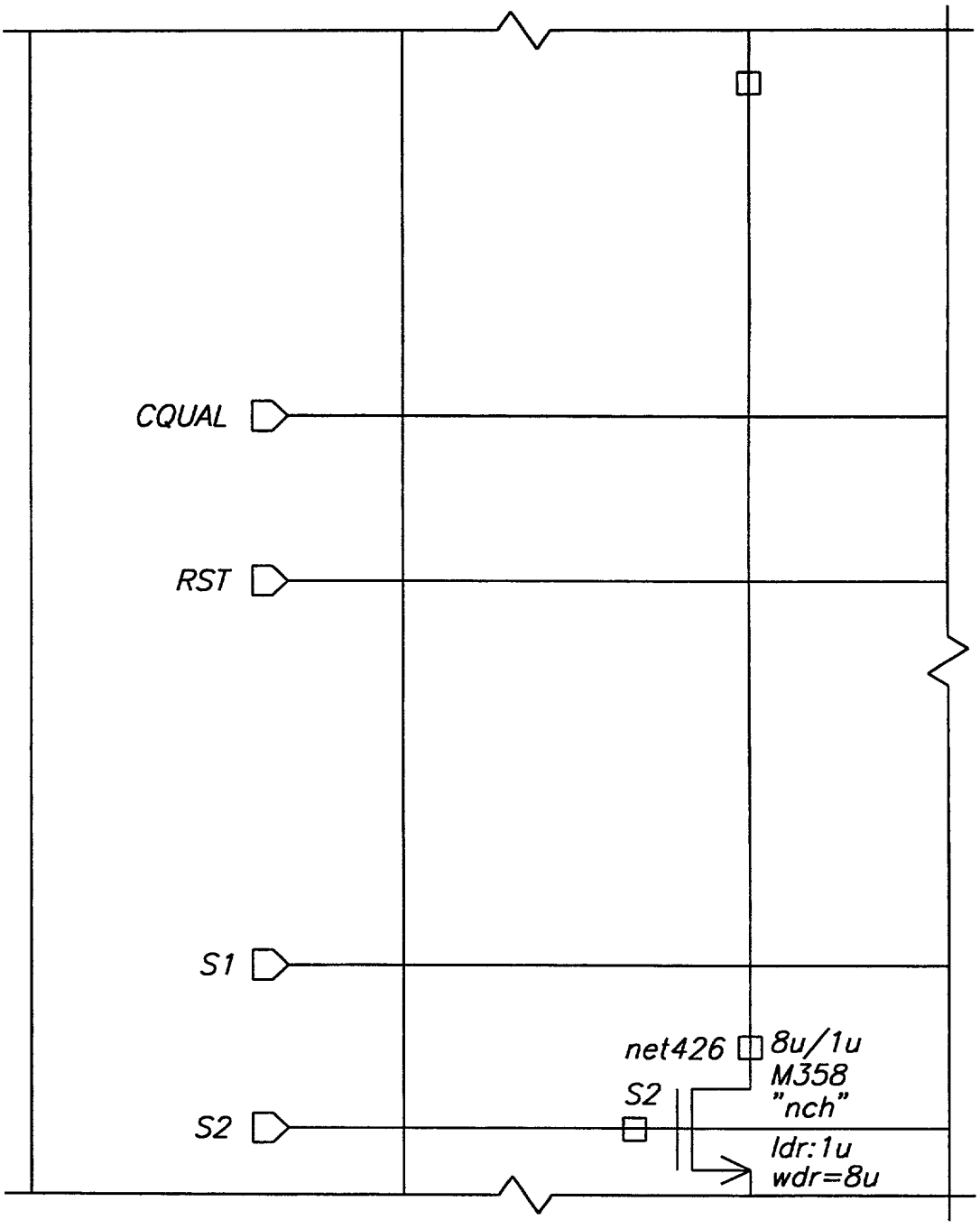


Fig 7.06010A

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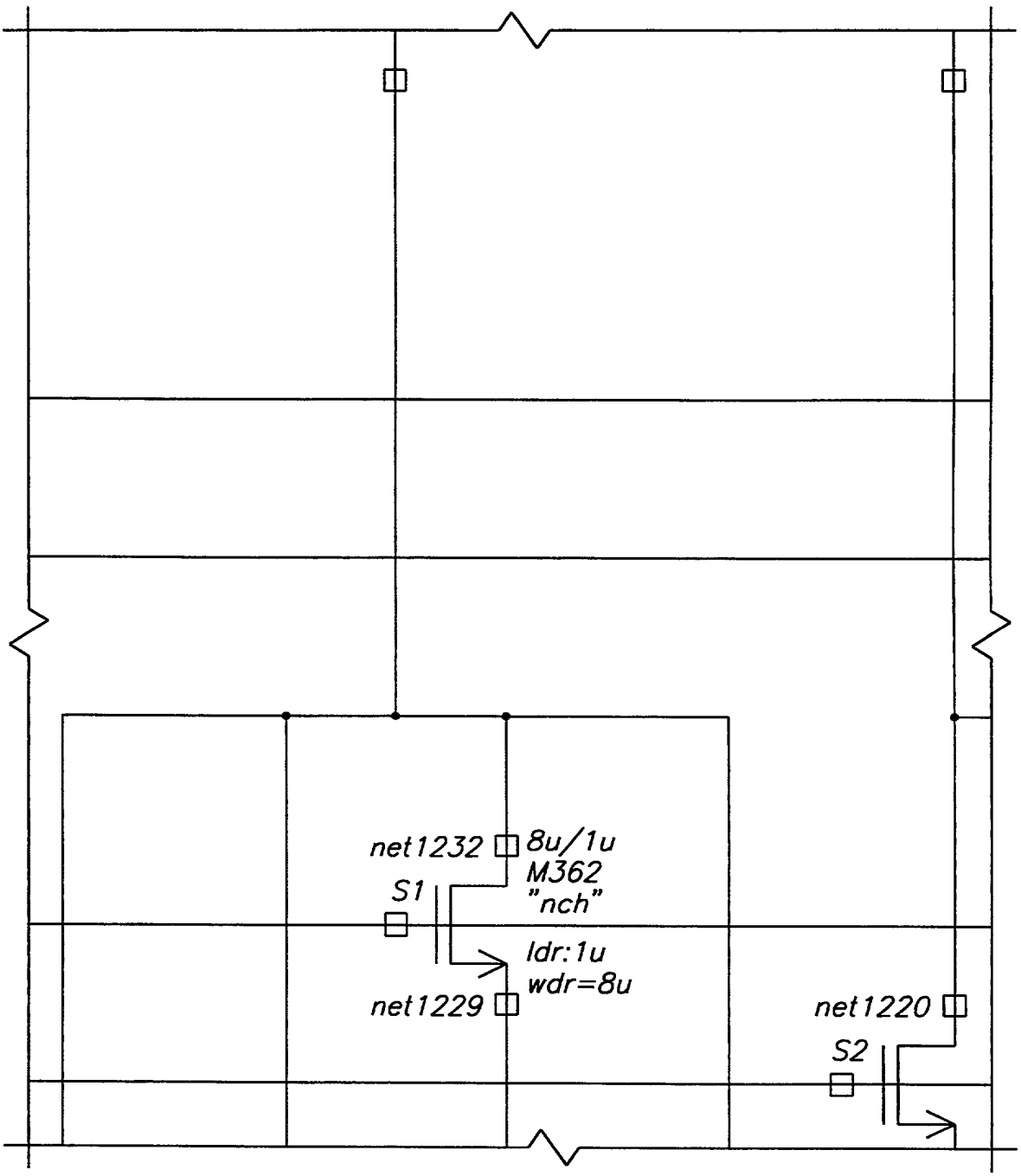


Fig 7.06010B

US PTO 2005122005

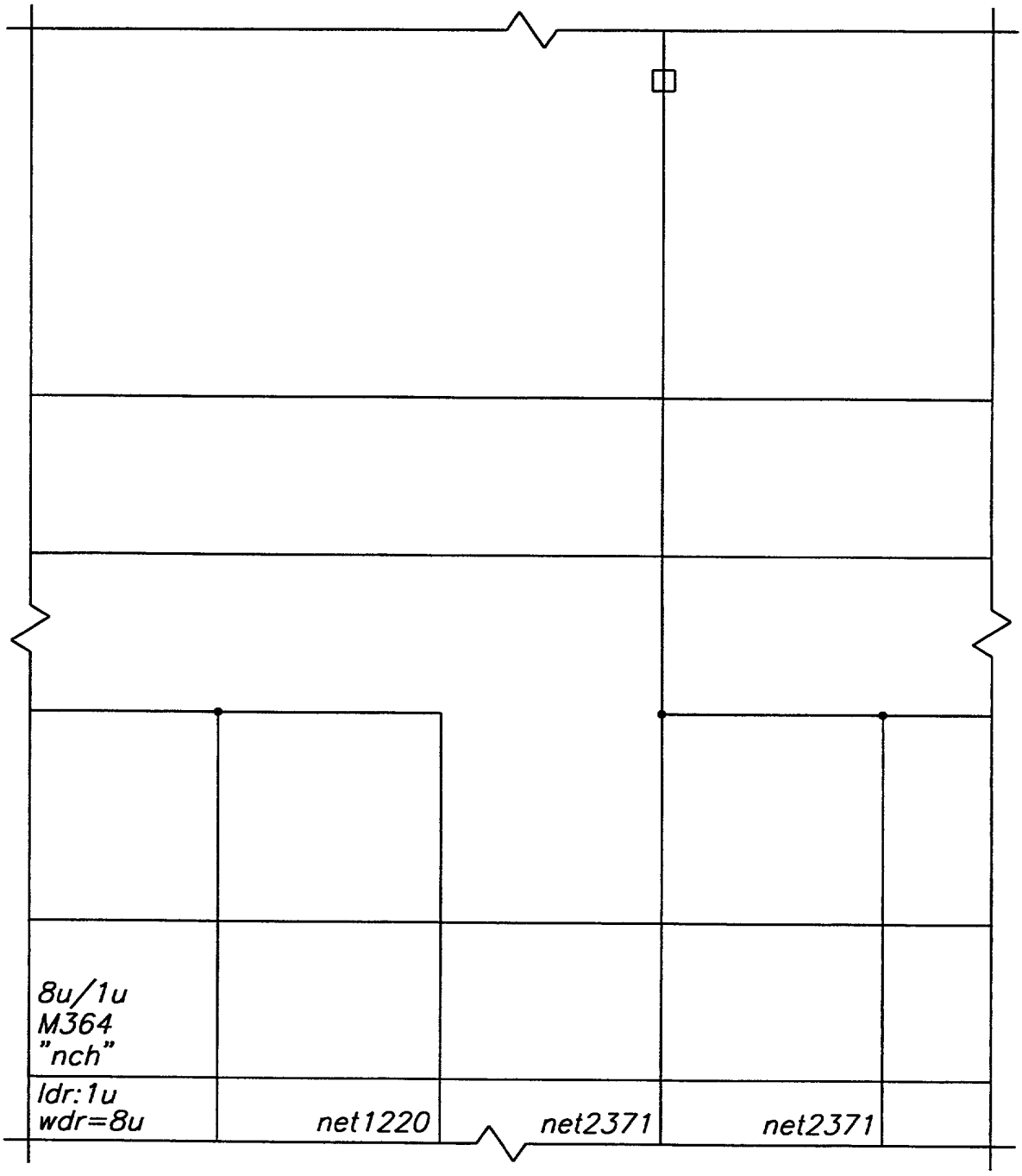


Fig 1.060100

1074950 3522995

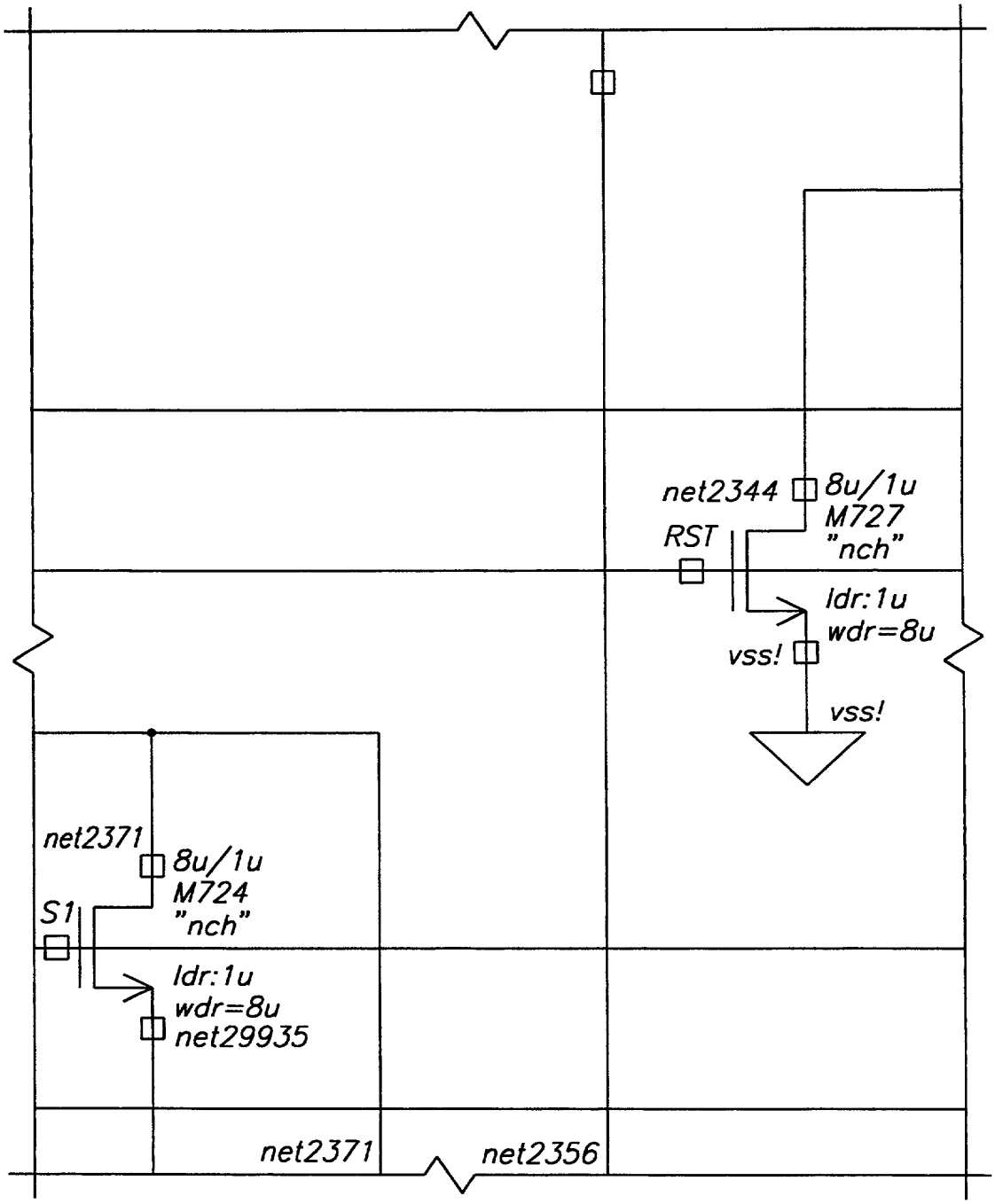


Fig 1.0600100

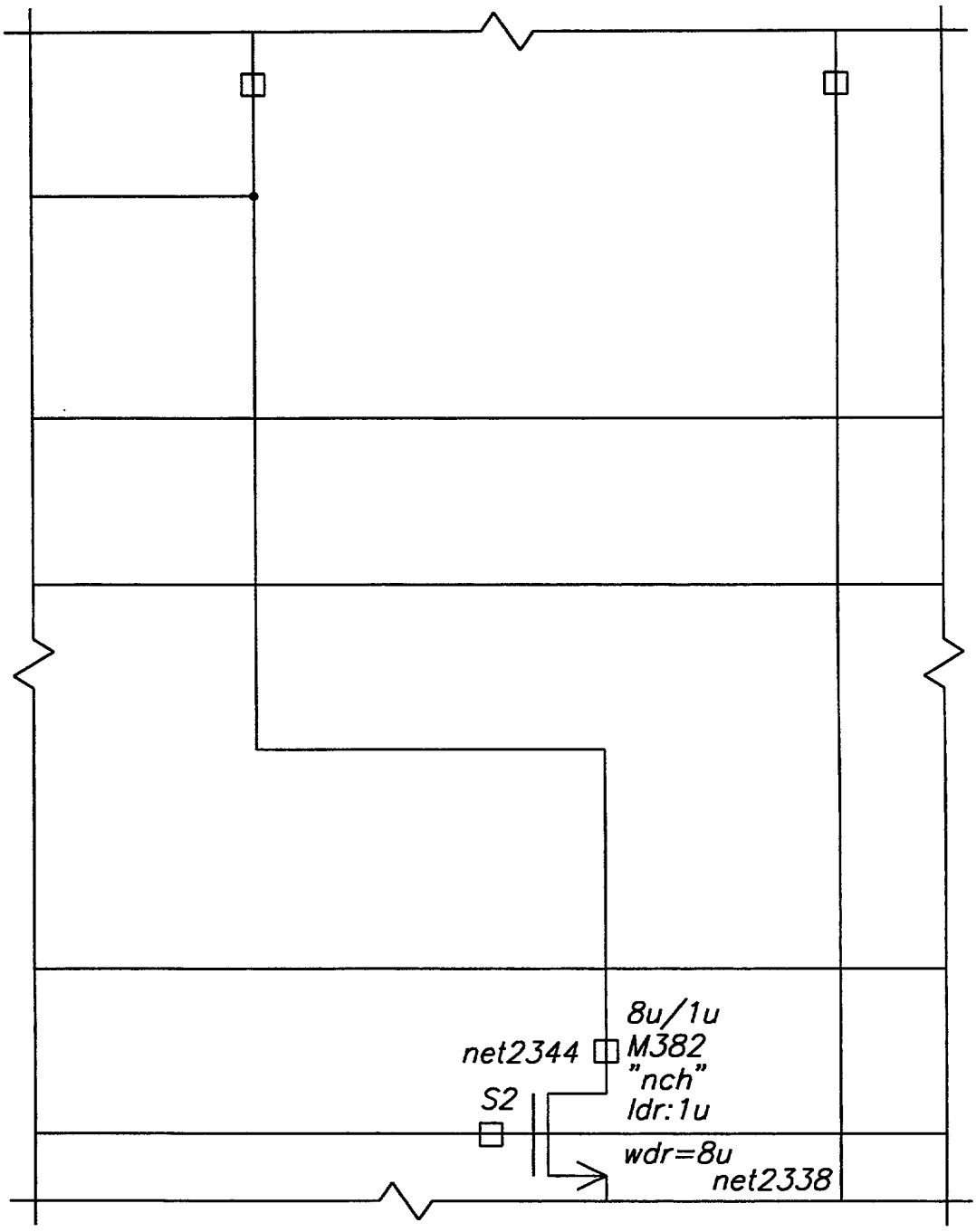


Fig 7.0601DE

Patent-05734169

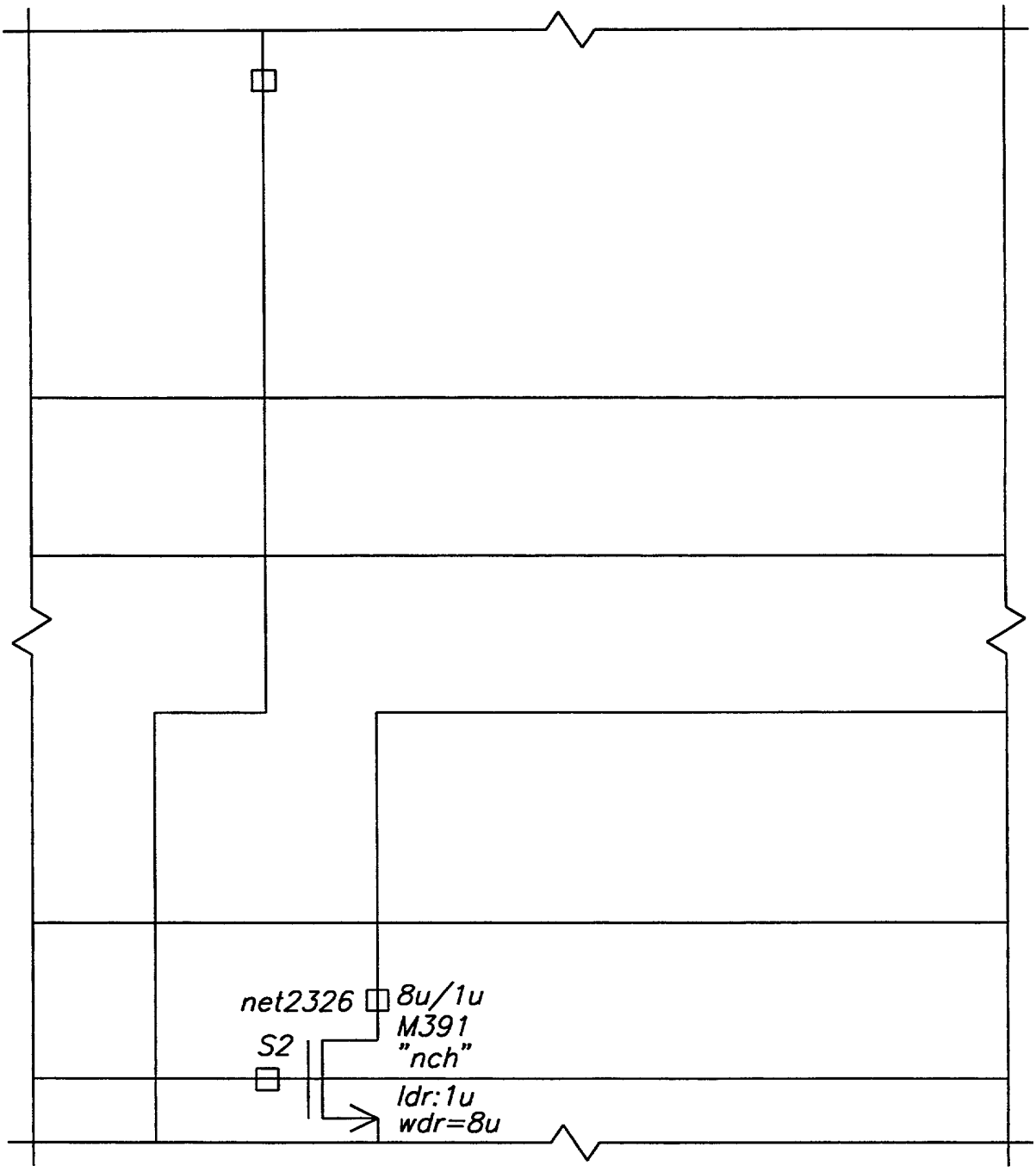


Fig 1.0601DF

Patent 5,952,694

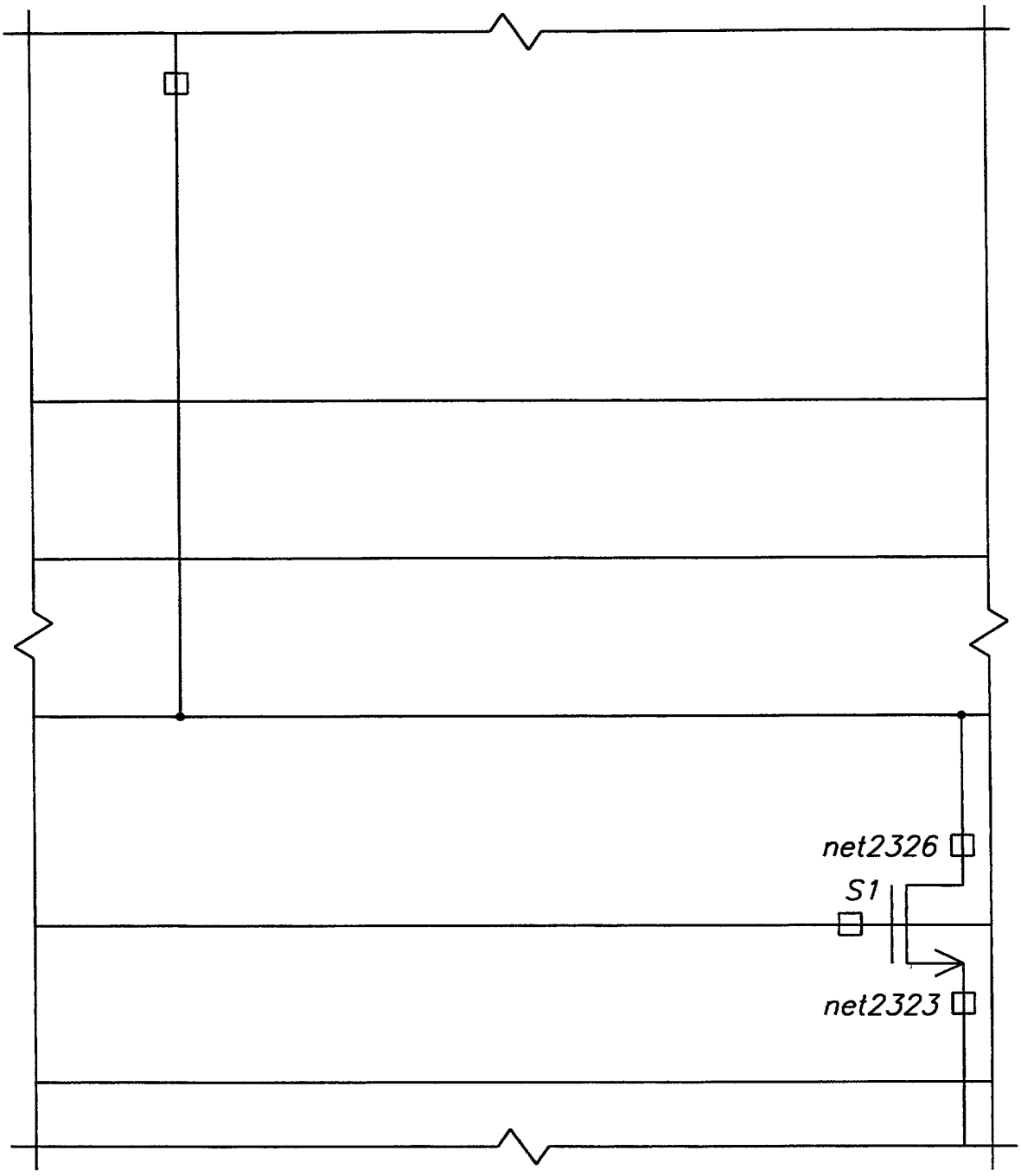


Fig 1.0601106

Document Center, Inc.

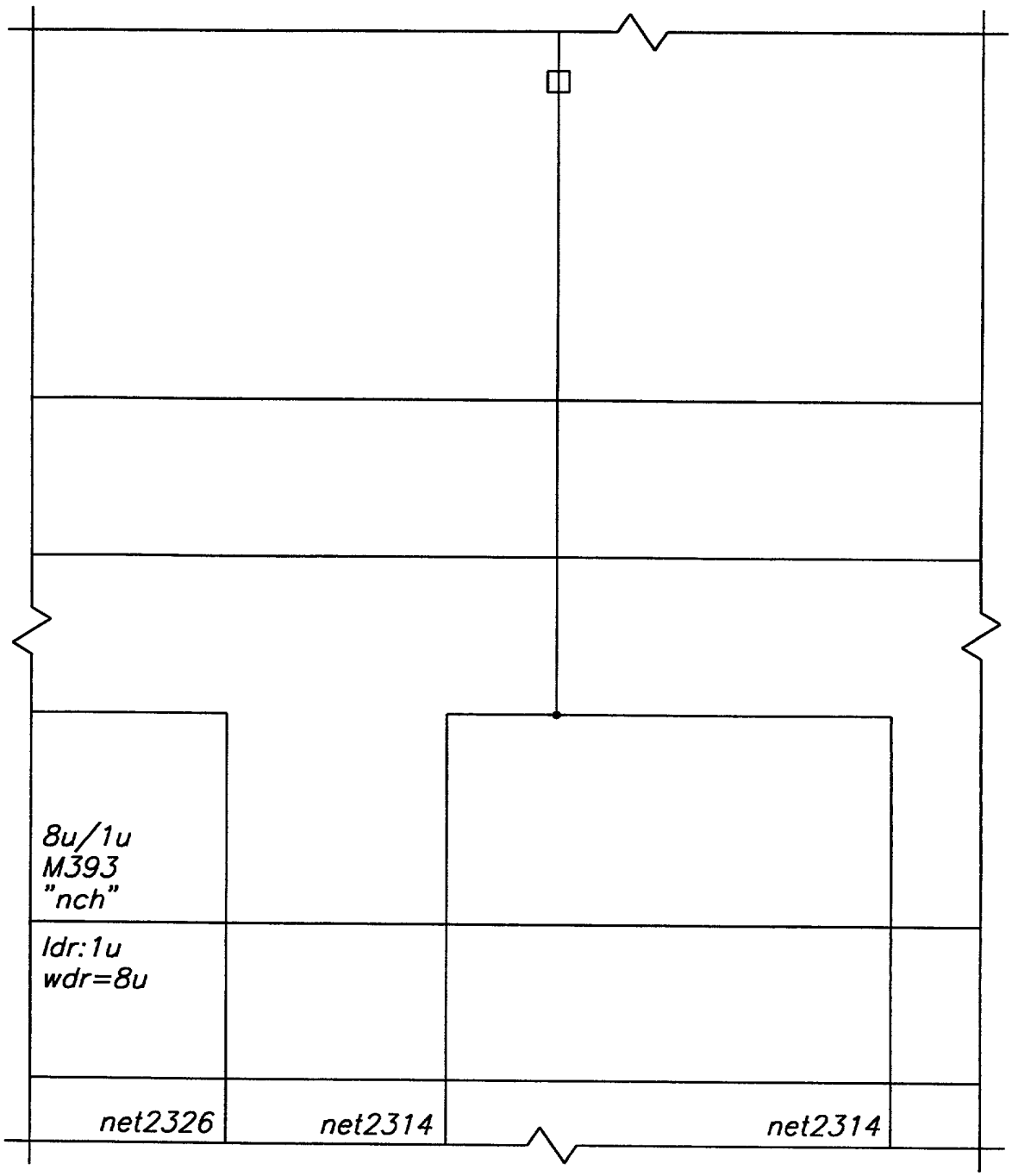


Fig 1.0601DH

US5122856

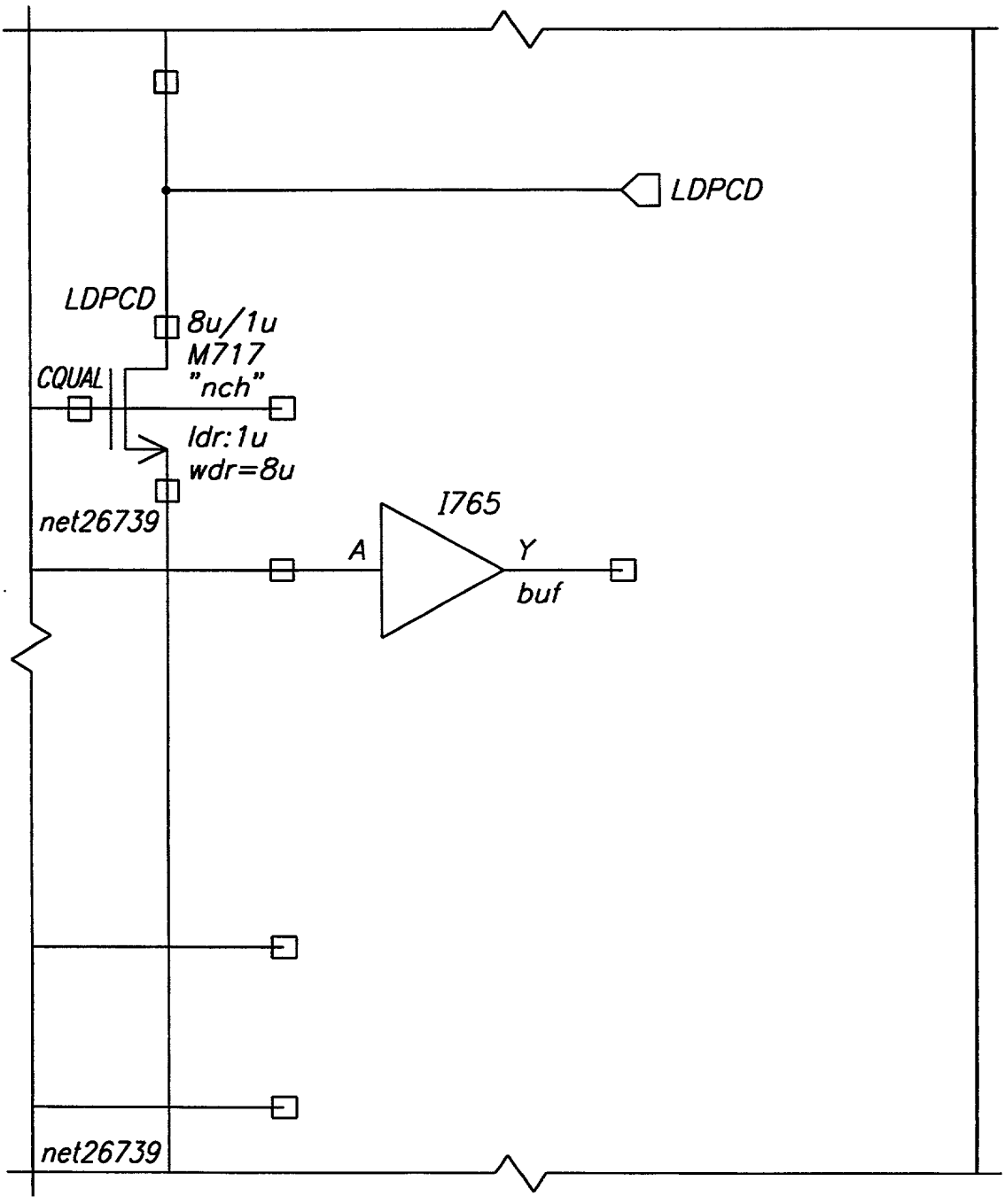
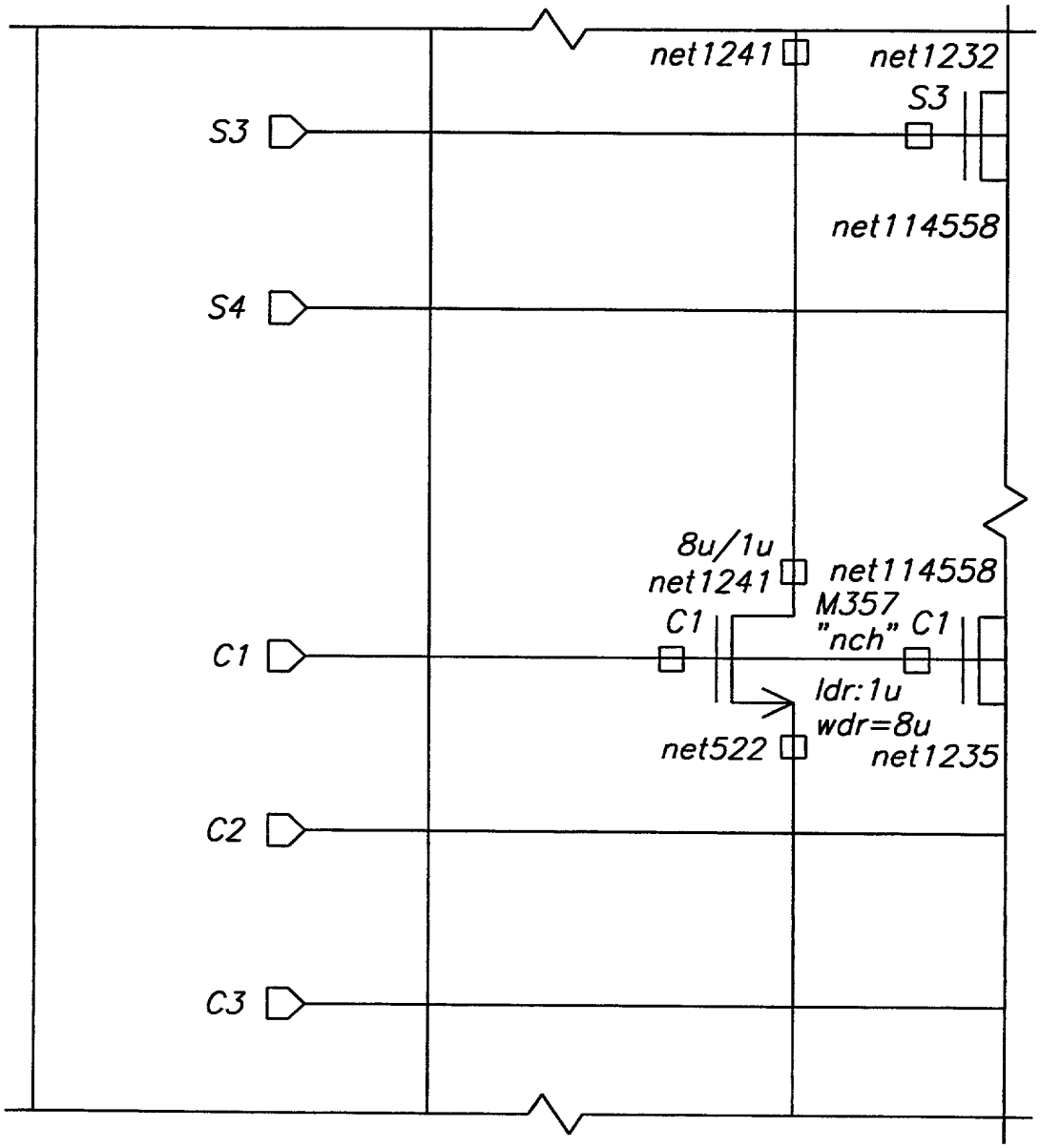


Fig 1.0601101


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S4
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C1
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C3

Фиг 1.060ЦЕА

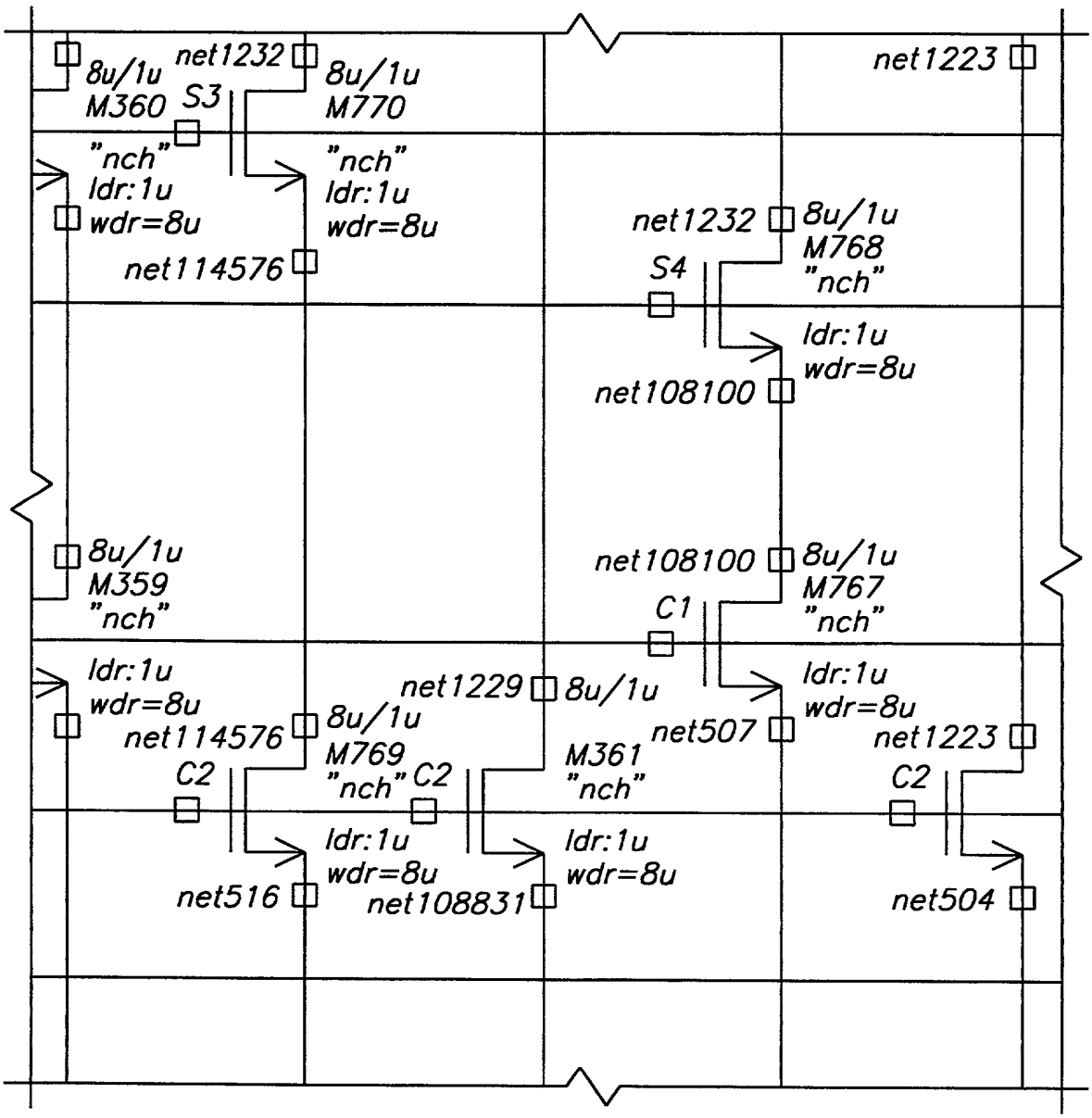
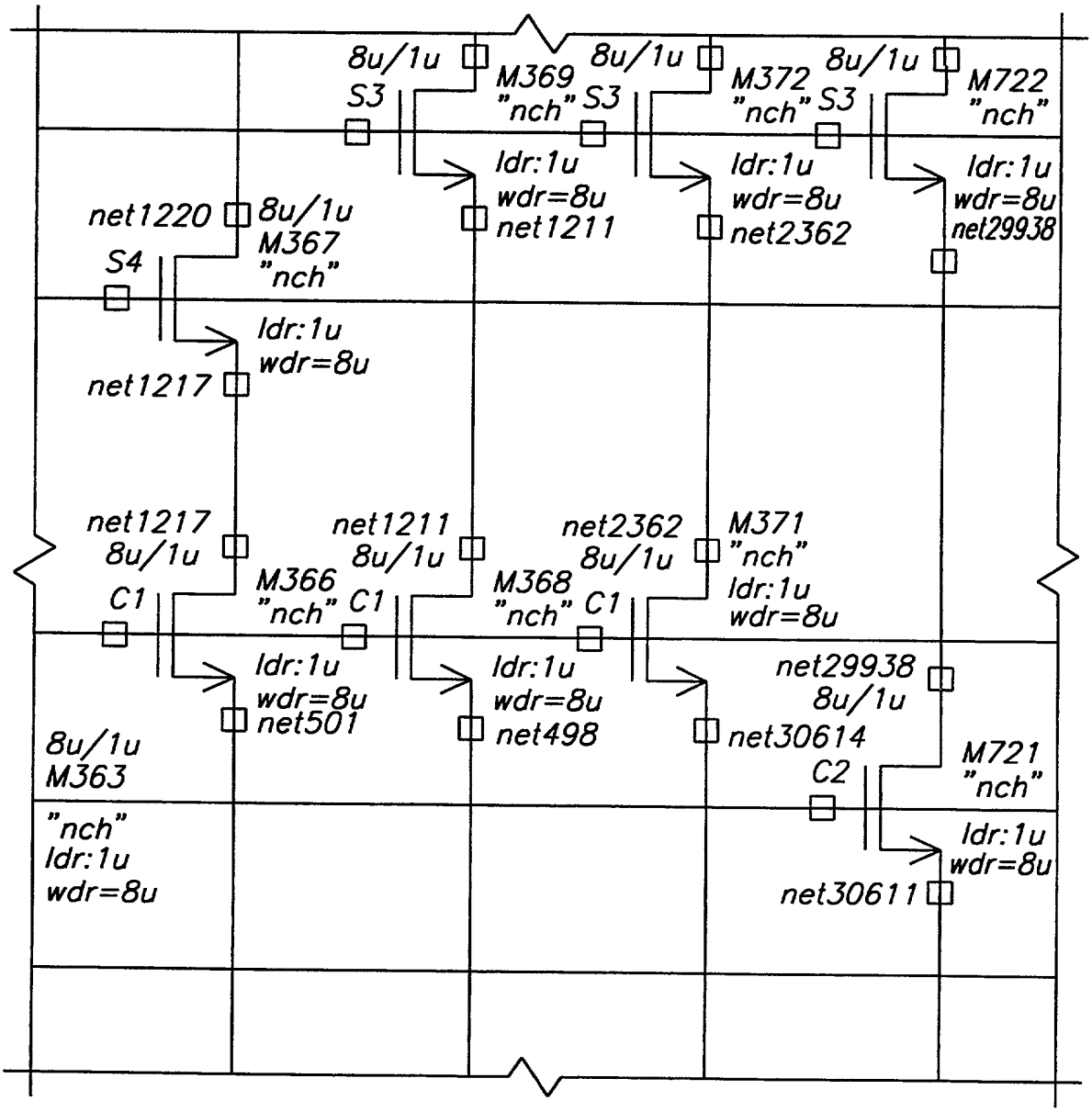

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Fig 1.0601EB


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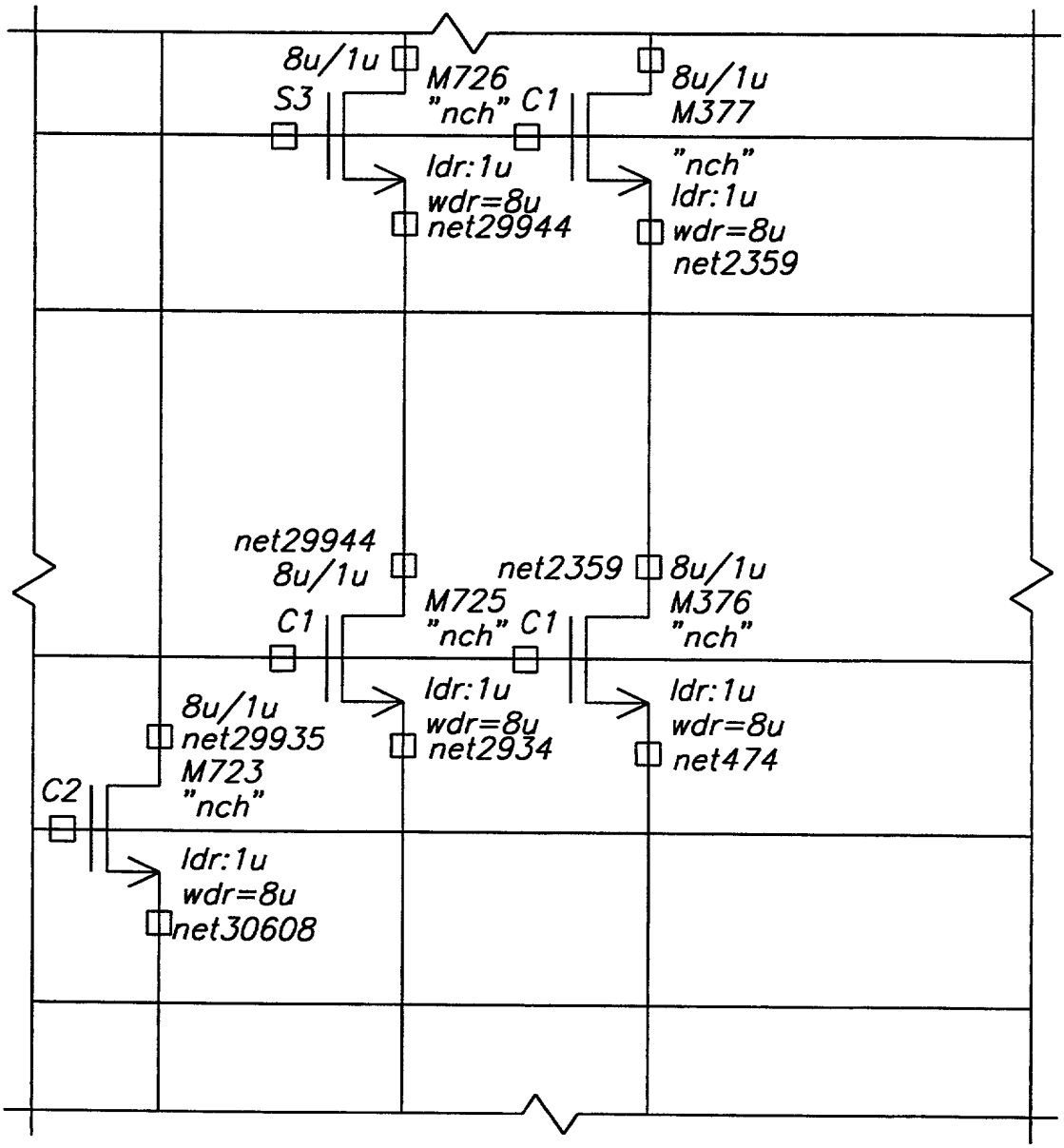


Fig 1.0600IED

5,952,595 - 05 Sep 1995

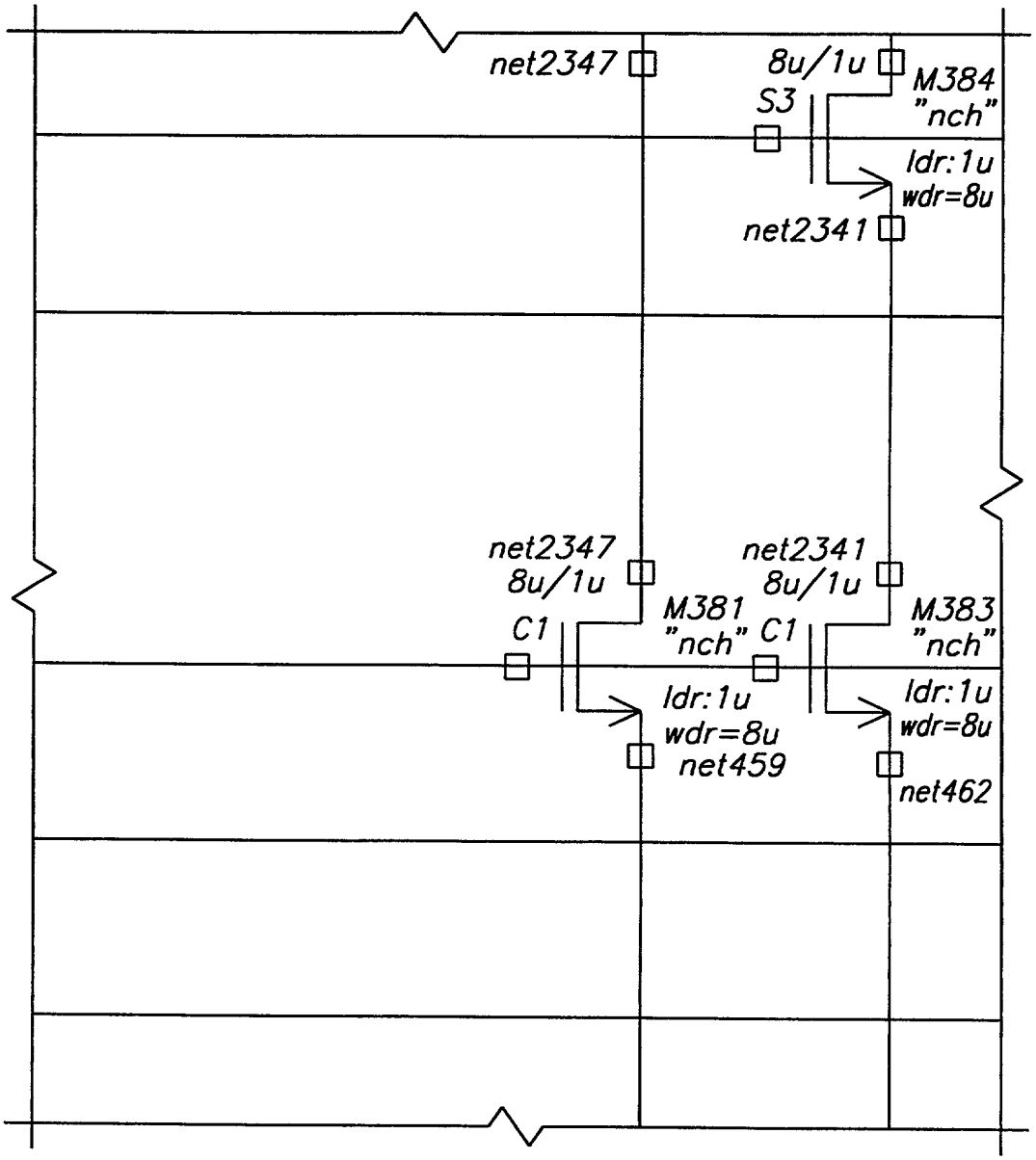


Fig 1.0610E

Patent Application Publication

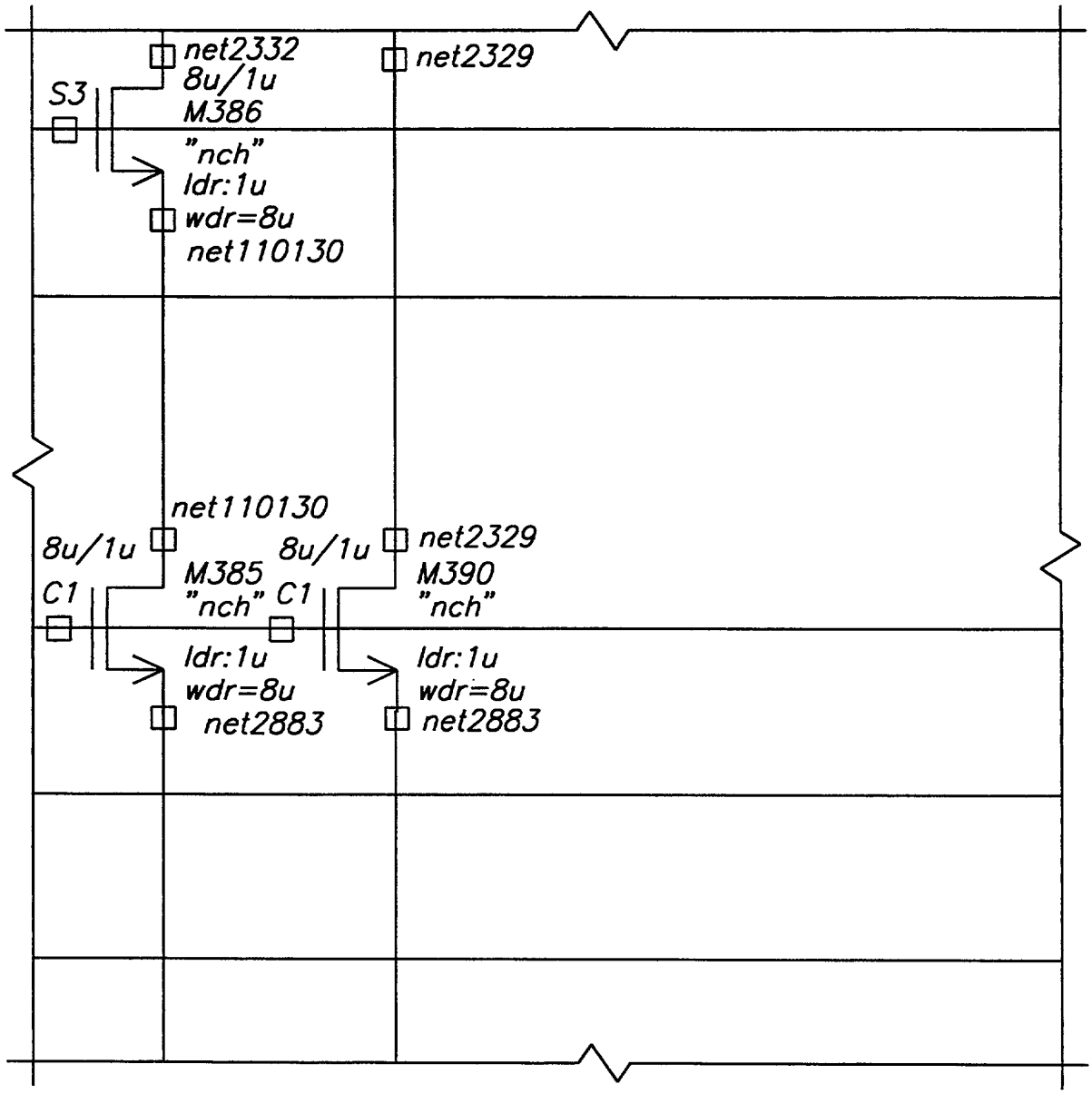

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Fig 1.060IEF

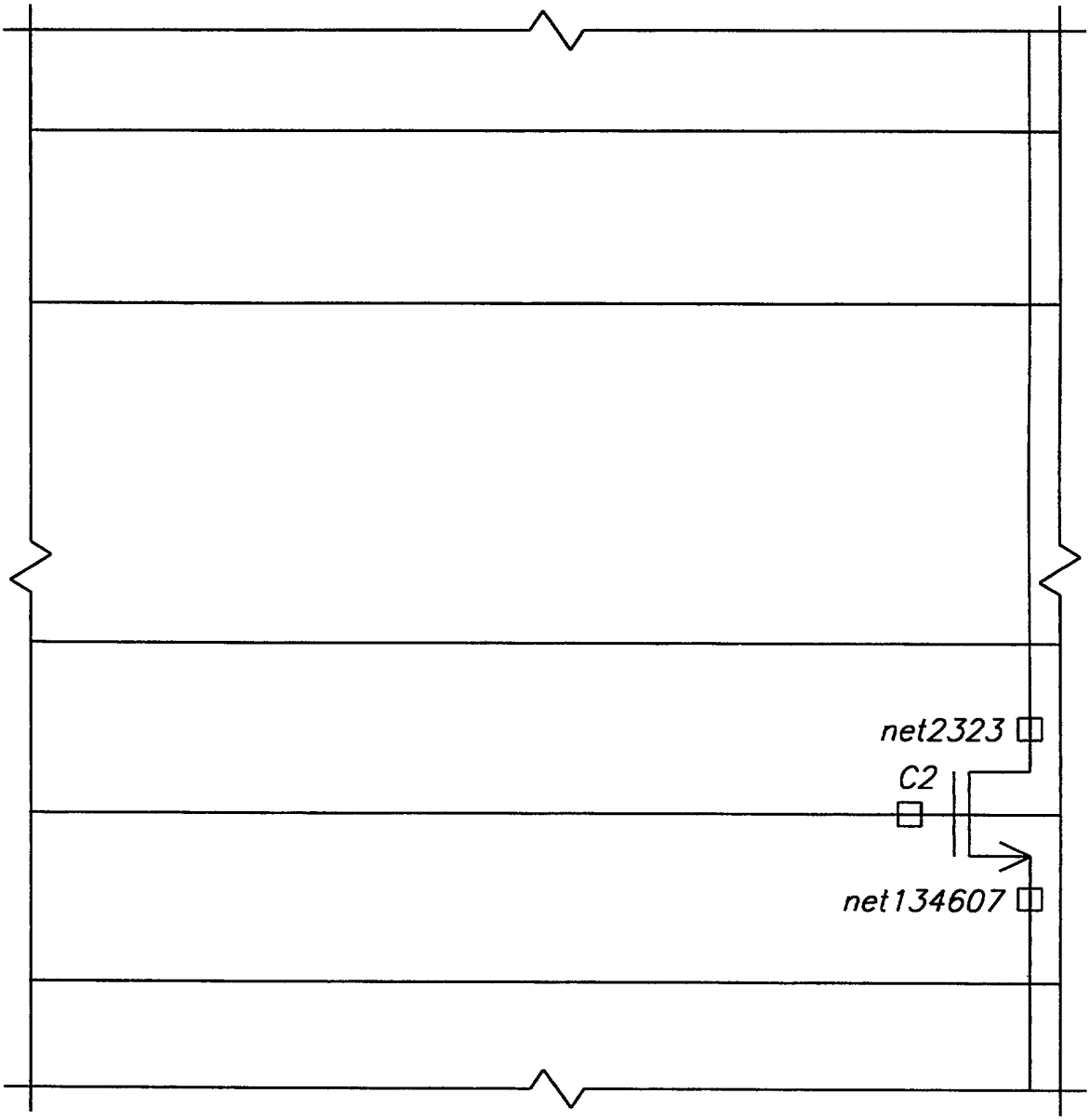
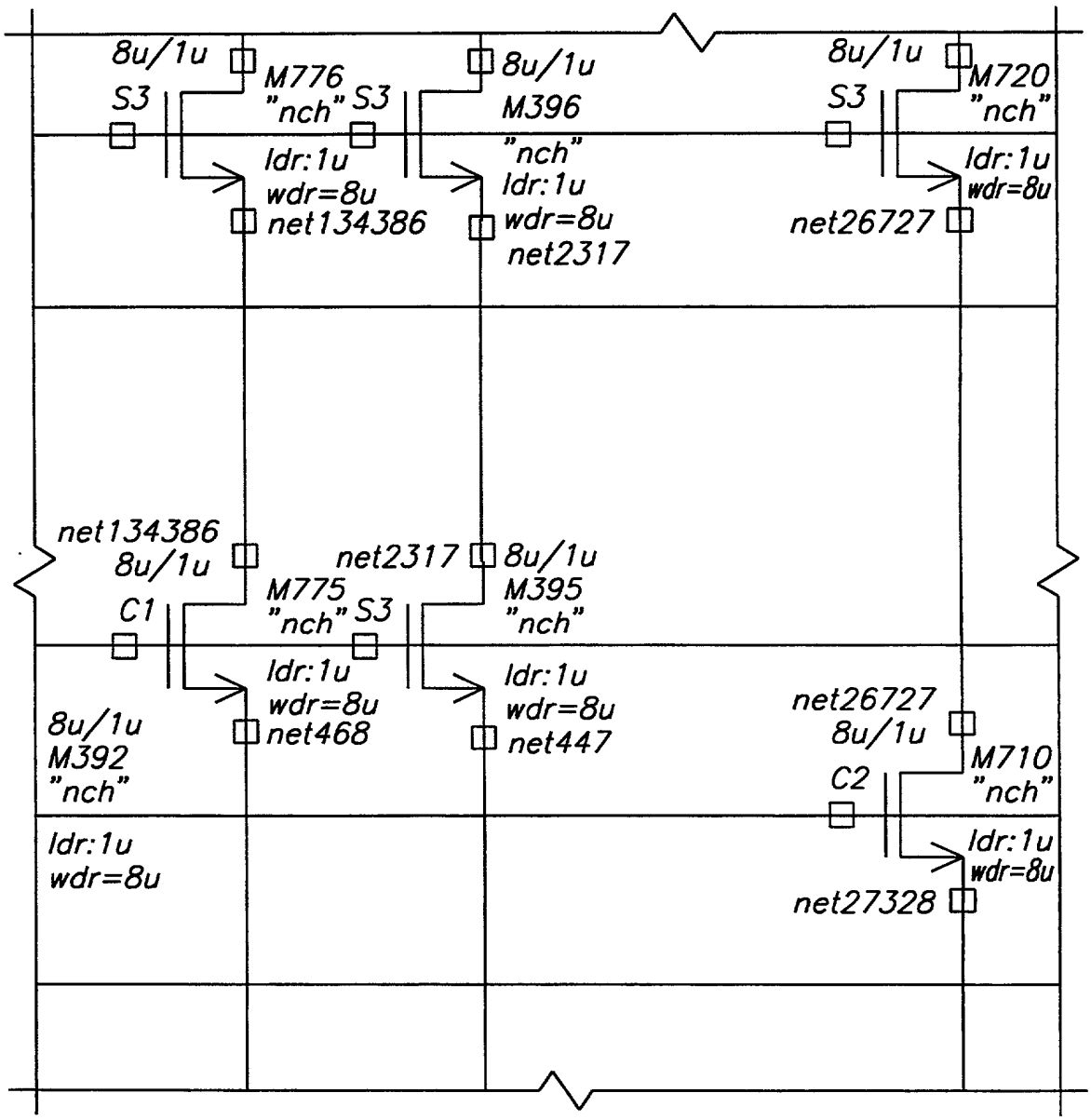


Fig 1.0601E6

Patent application publication



Фиг. 1.0600IEH

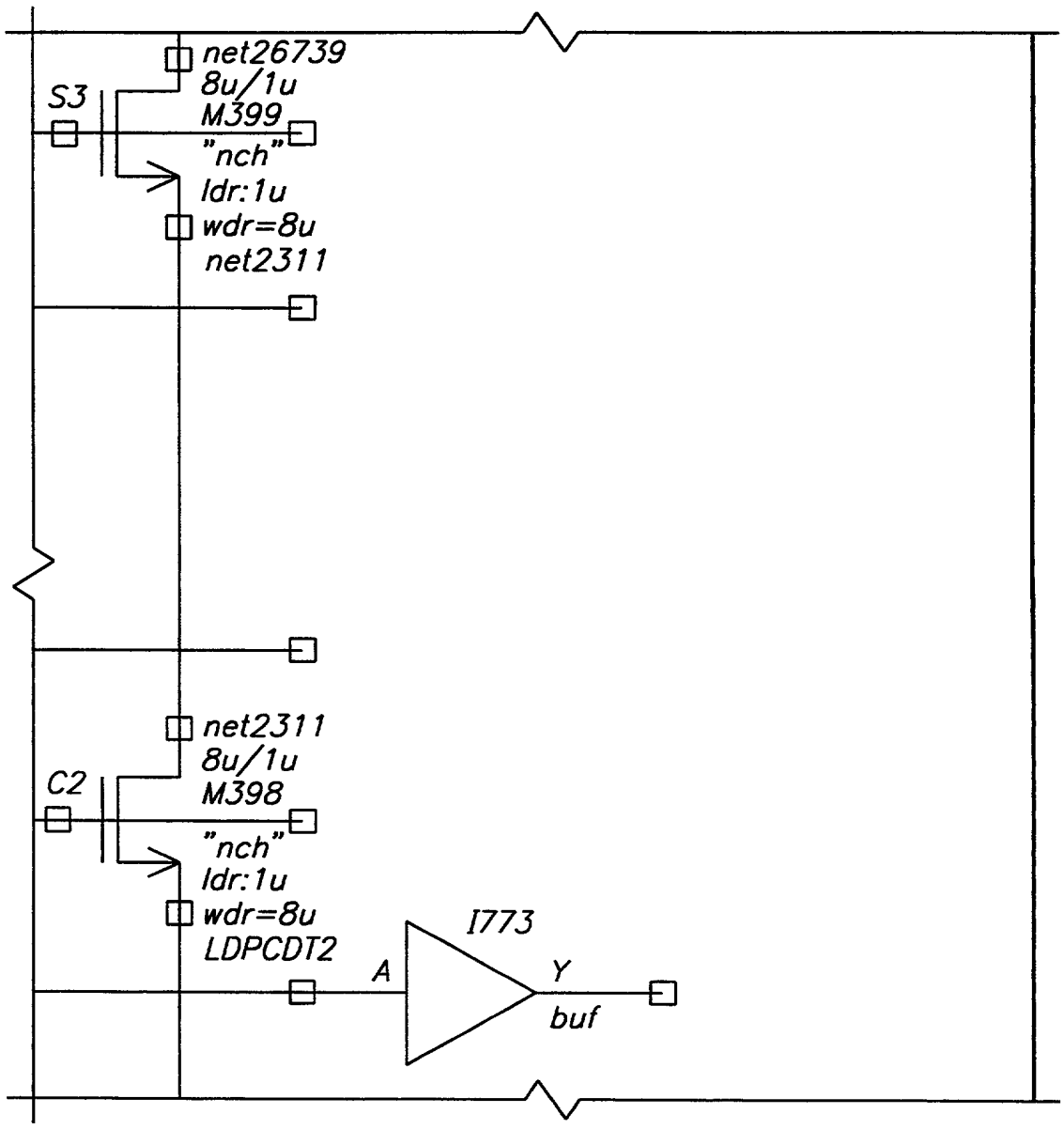


Fig 1.0601E1

US 6,952,359 B1

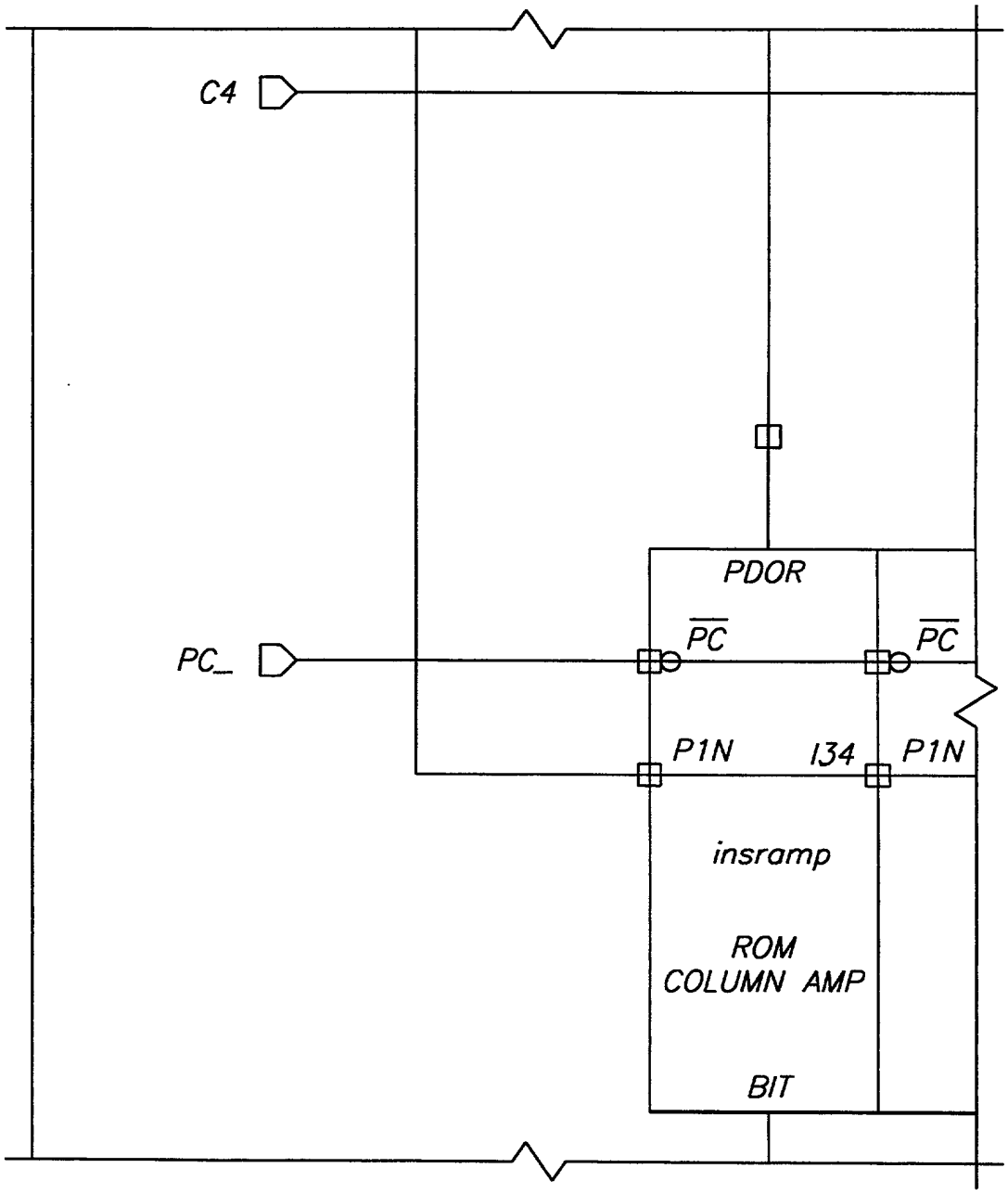


Fig 7.0601FA

Patent Application Publication

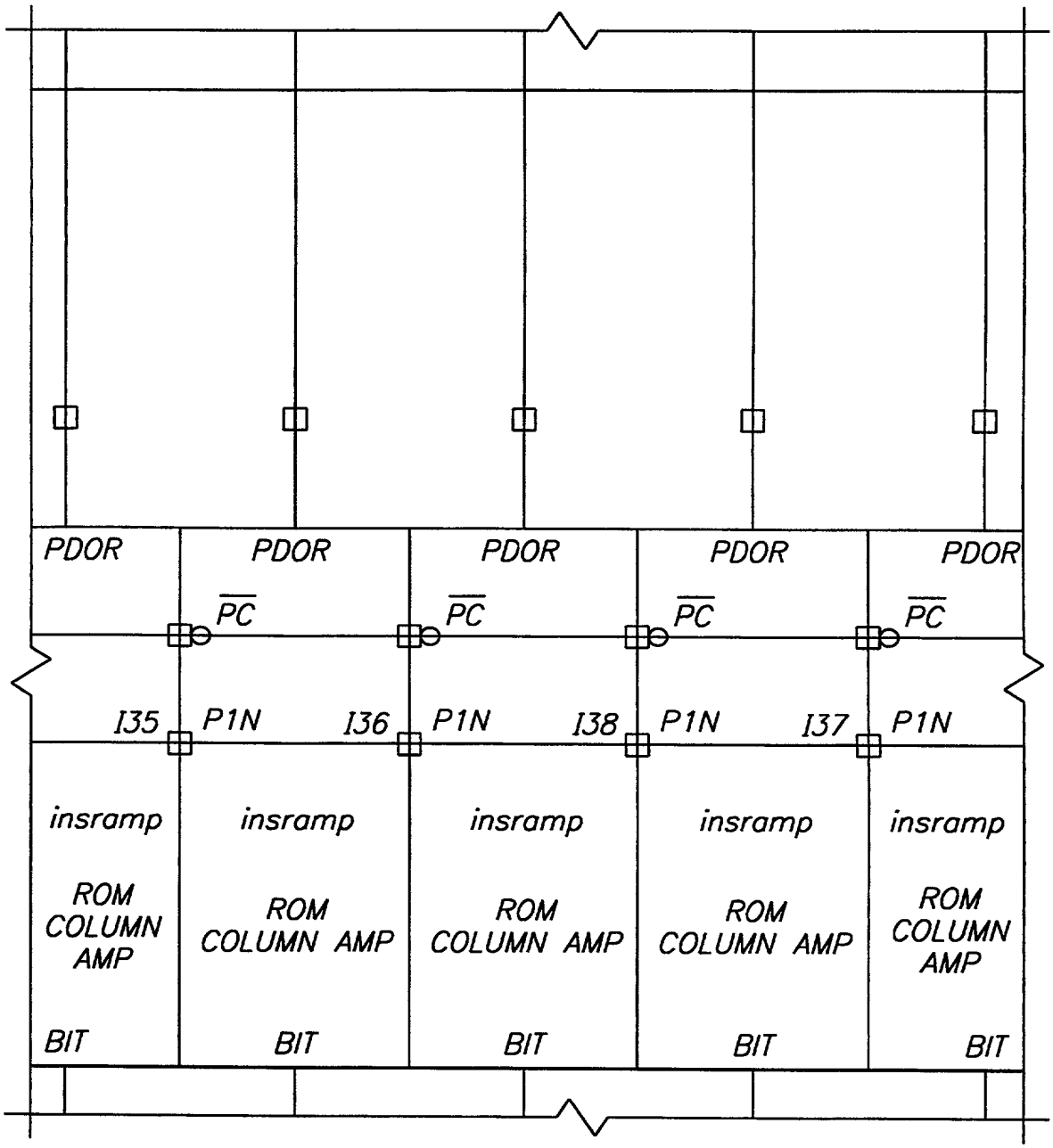


Fig 1.060118

US005963473A

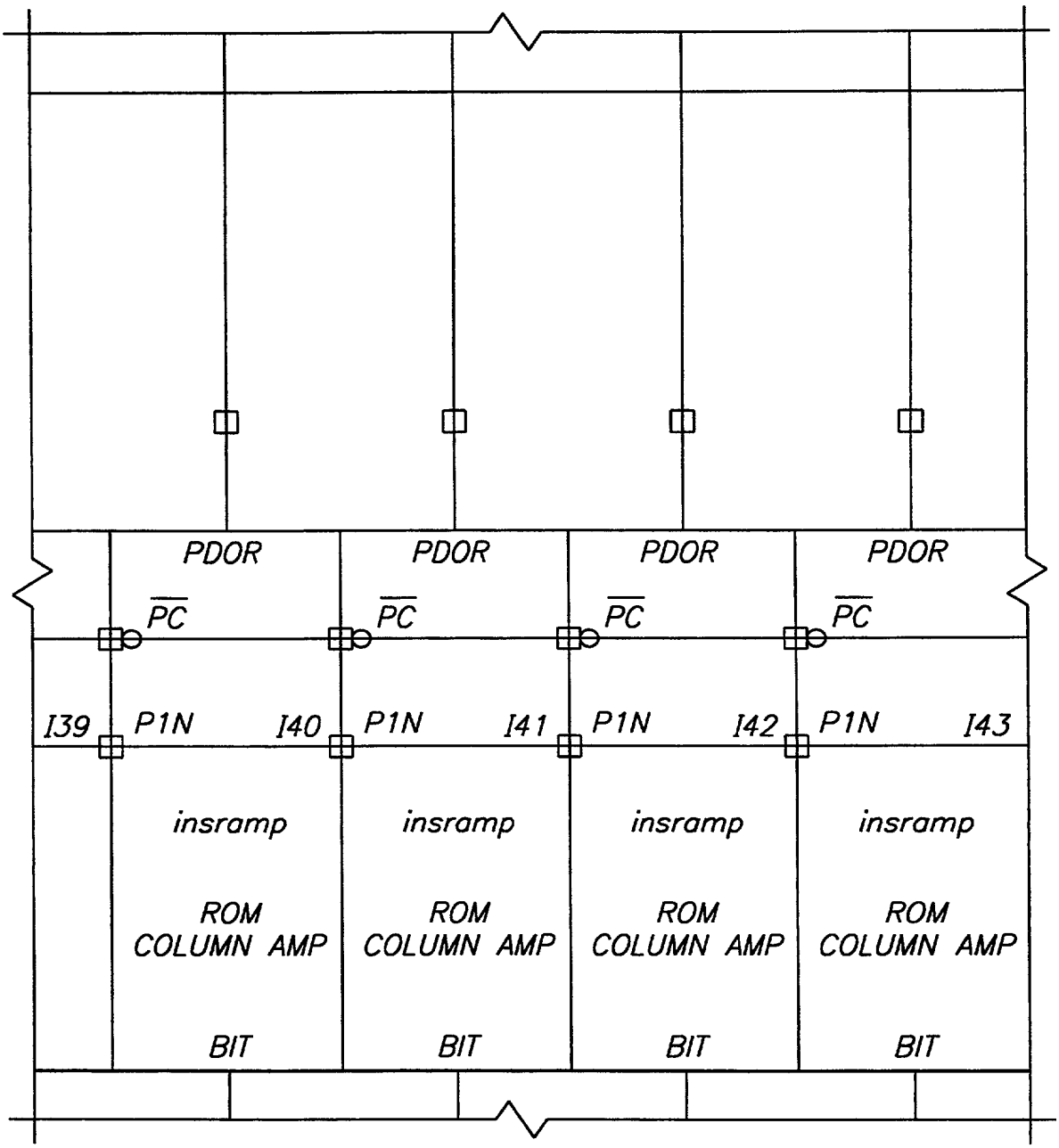


Fig 1.06011FC

Patent 5,952,694

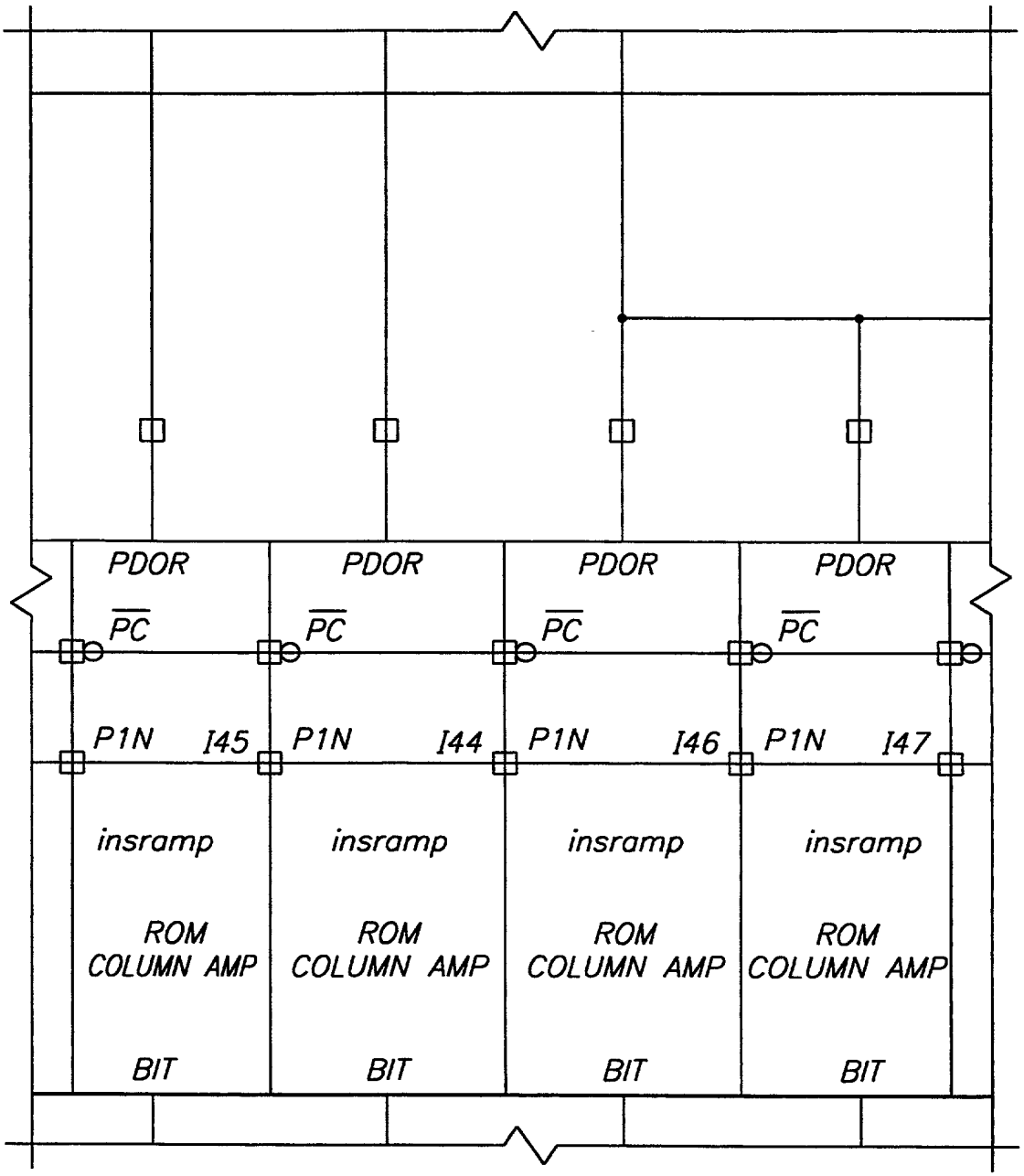

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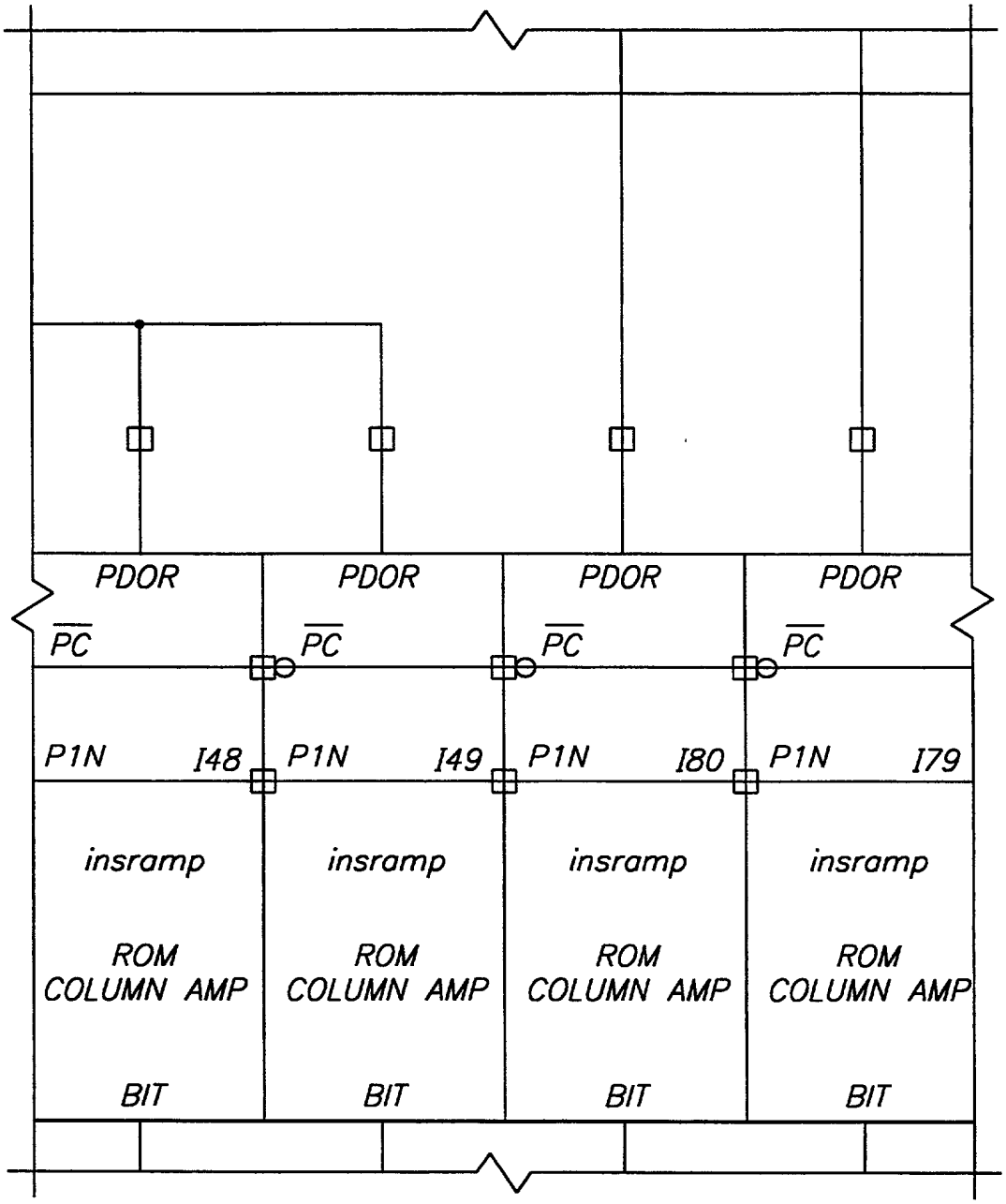

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Fig 3.06011E

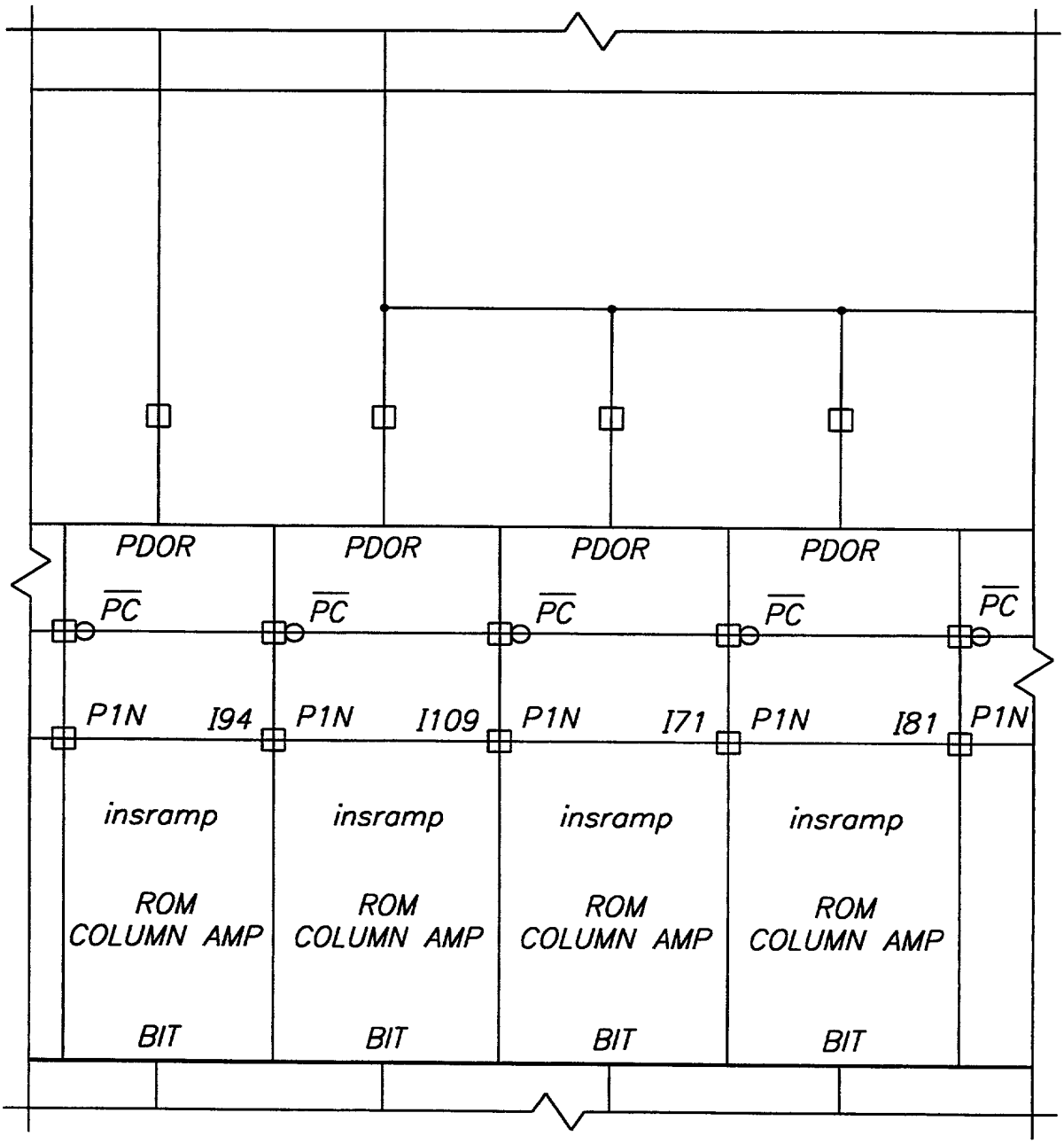

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Fig 1.06011F

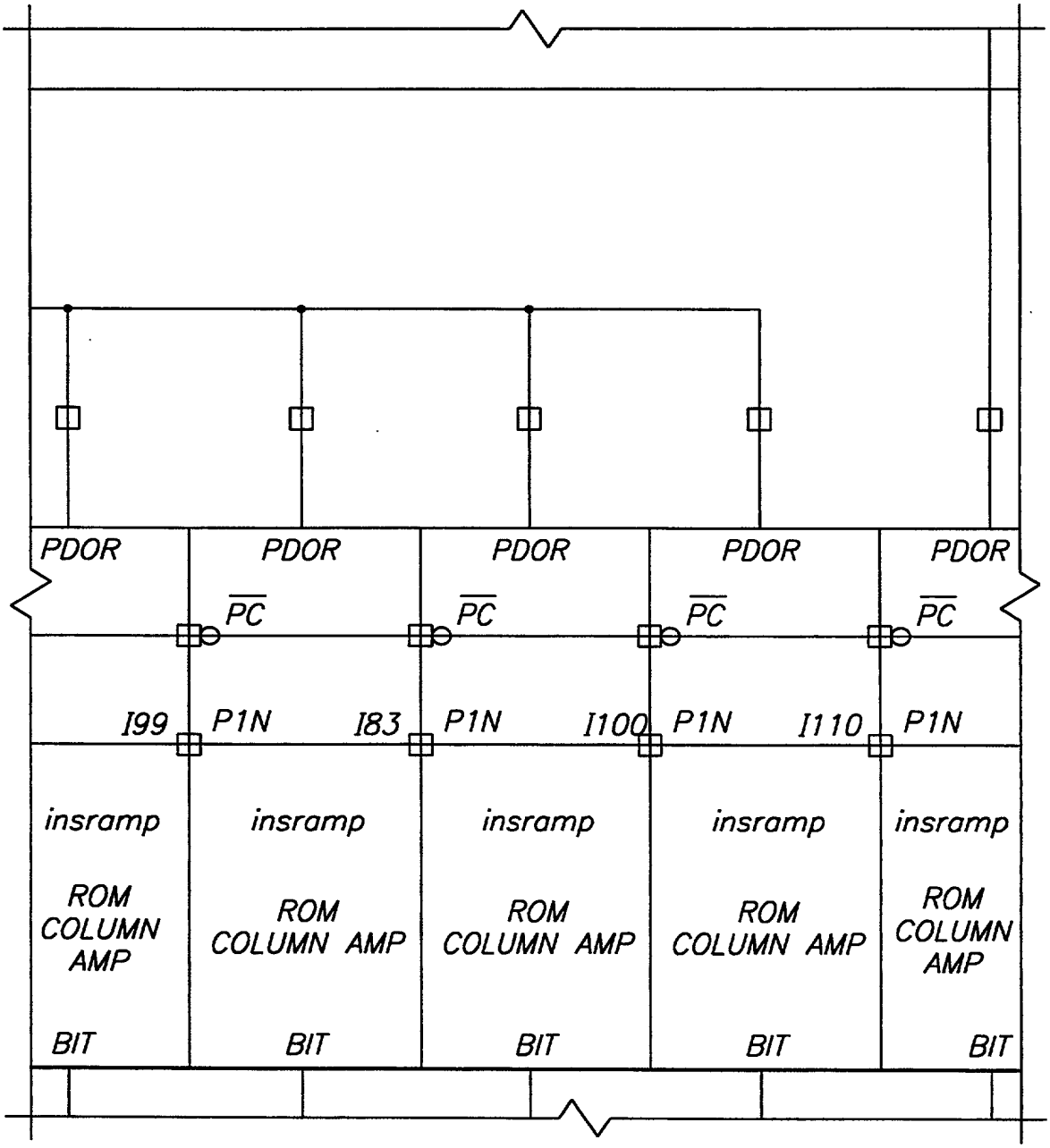


Fig 1.06011F6

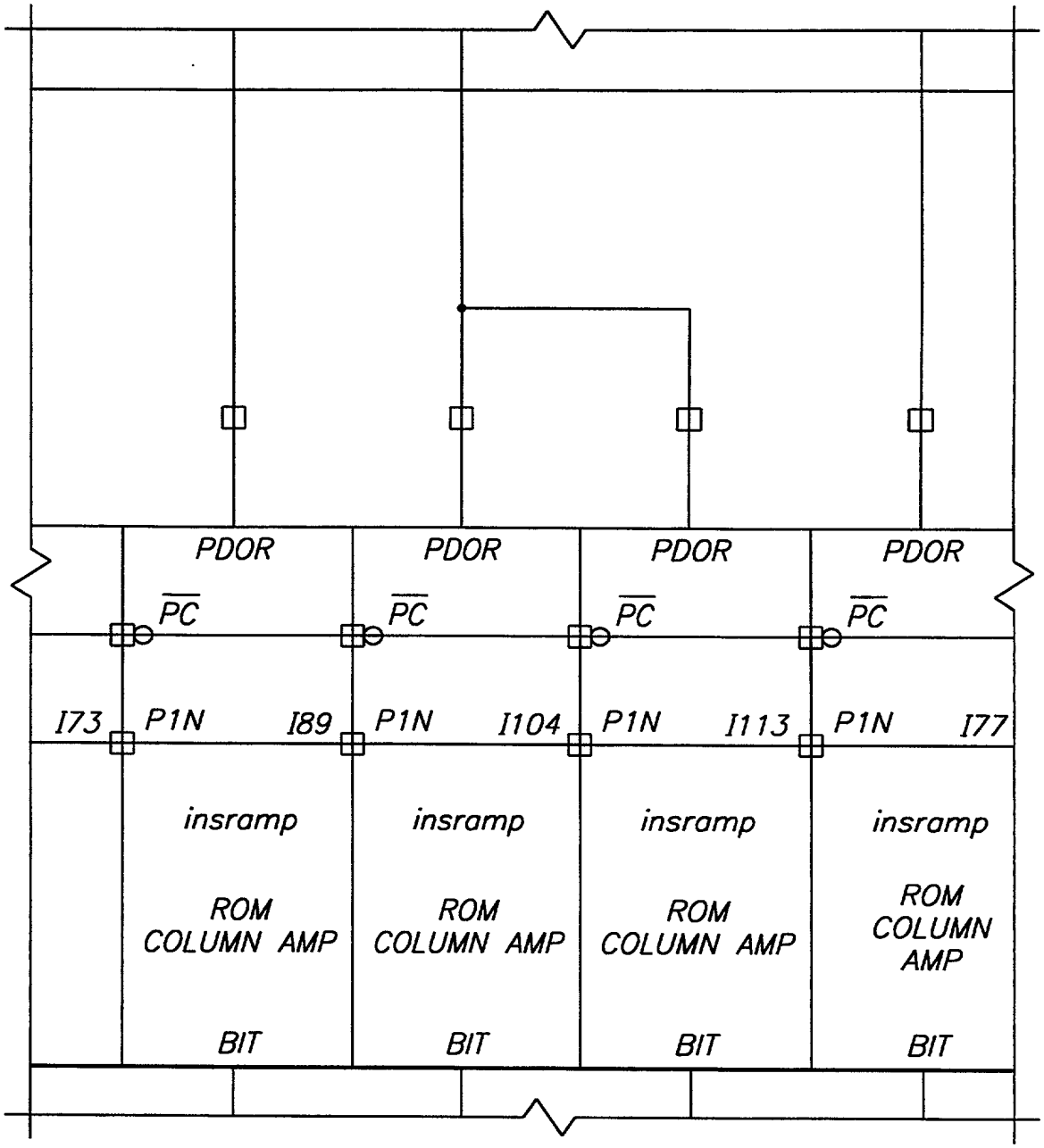


Fig 3.06011FH

4,951,259 - 05-11-1990

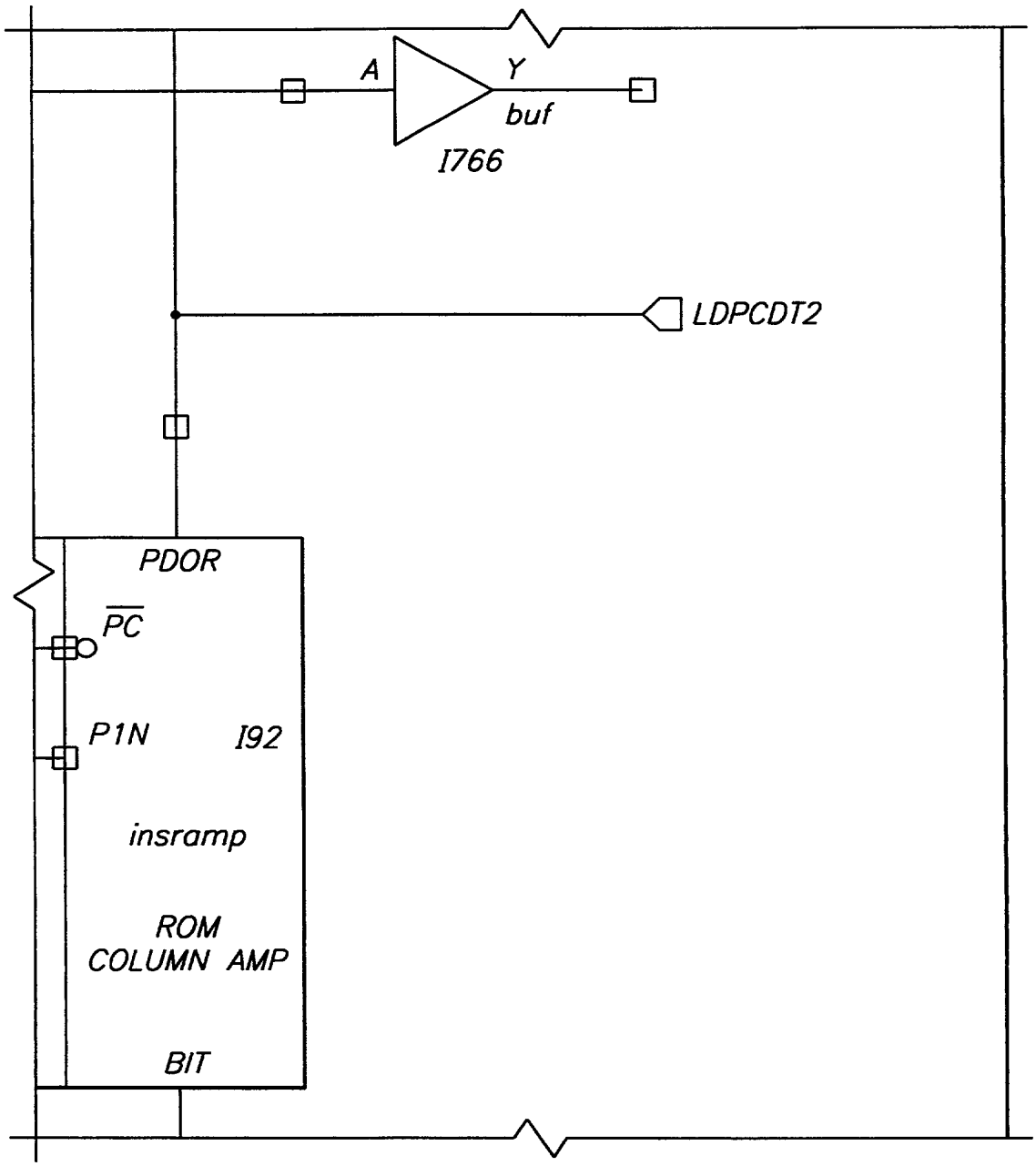
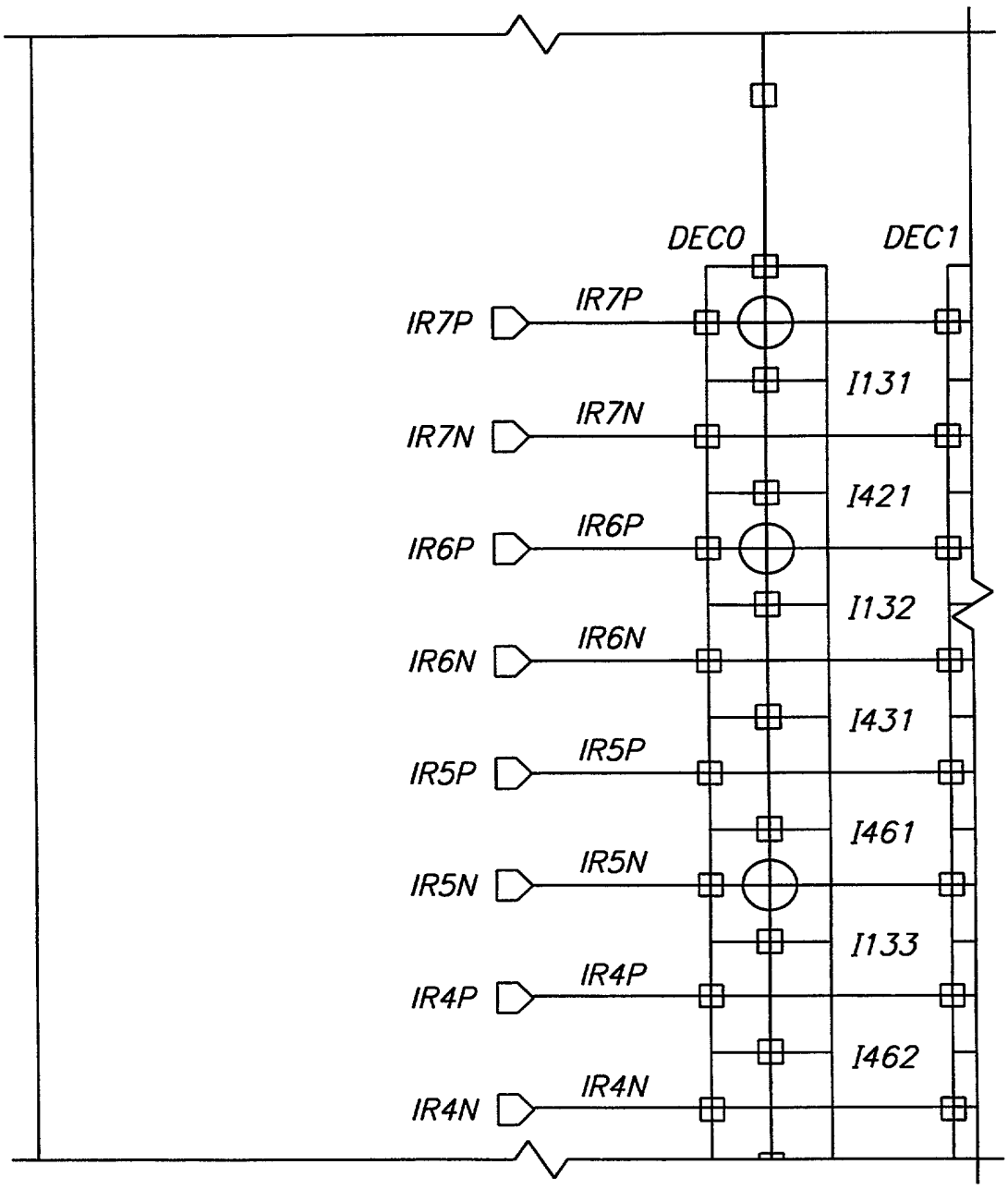


Fig 1.0601F1

Patent - US 5,959,929



Фиг 1.06016А

Patent-2005-05-31

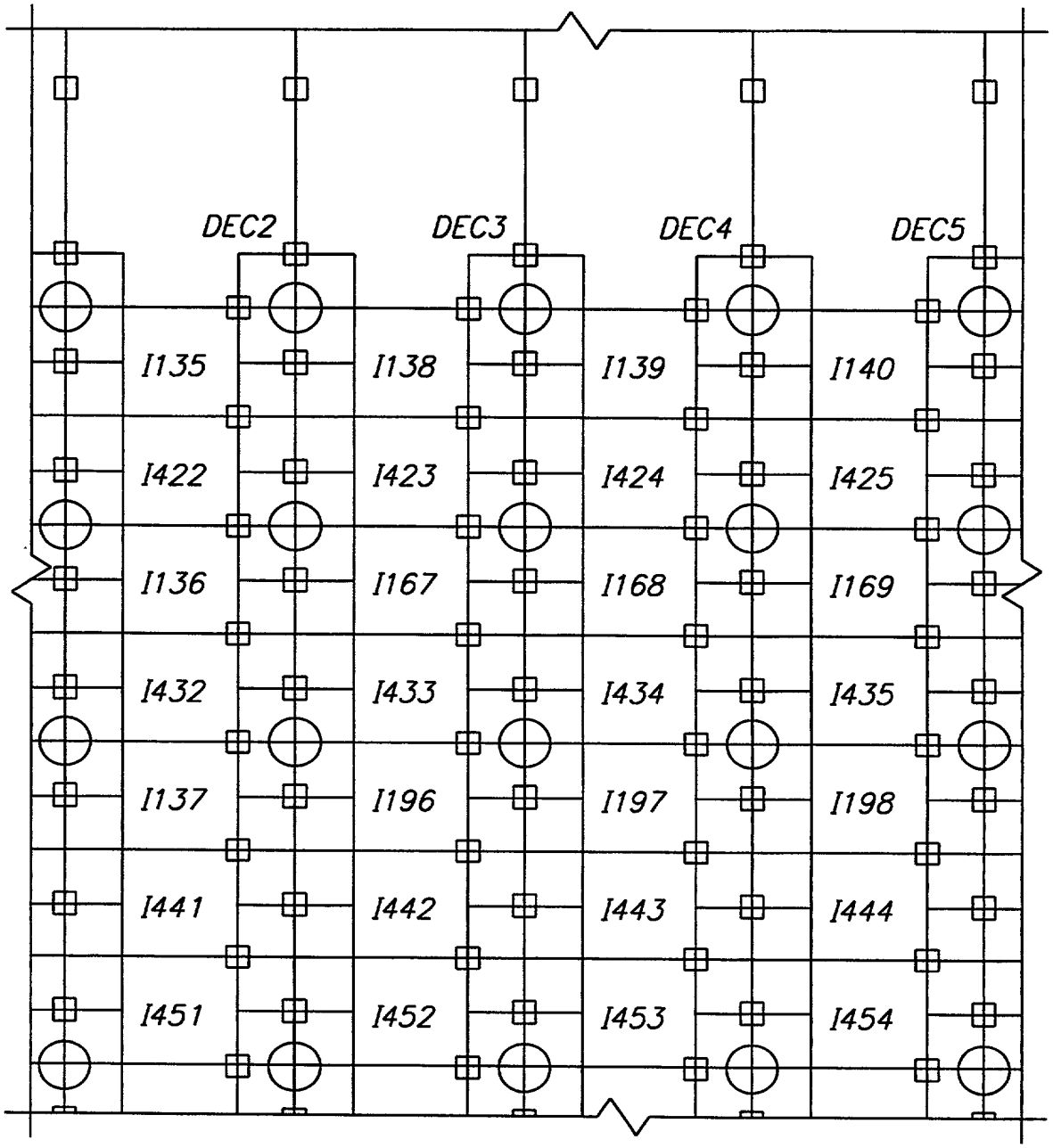
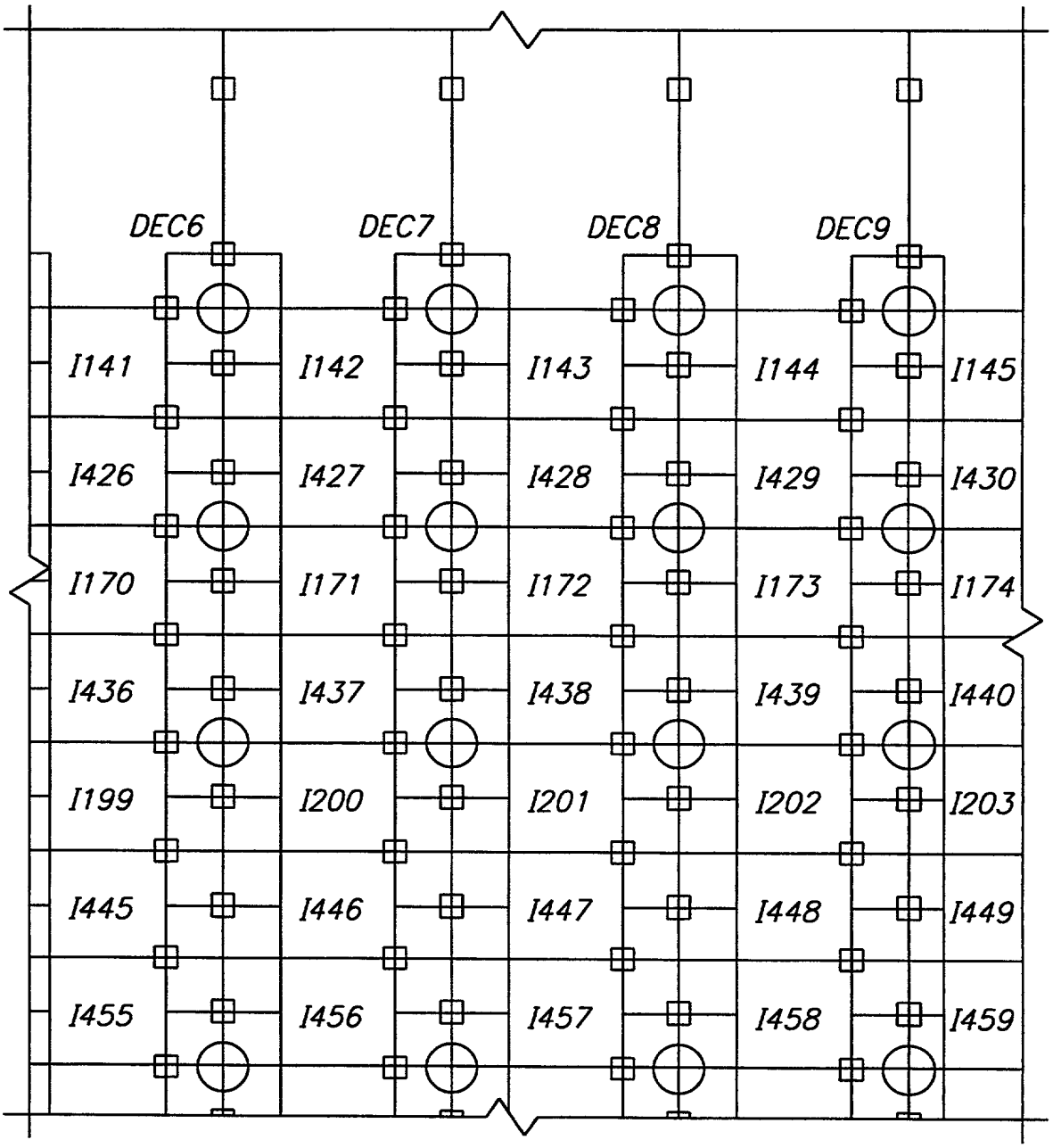


Fig 1.0600168

patent-publication



Фиг 1.0600106

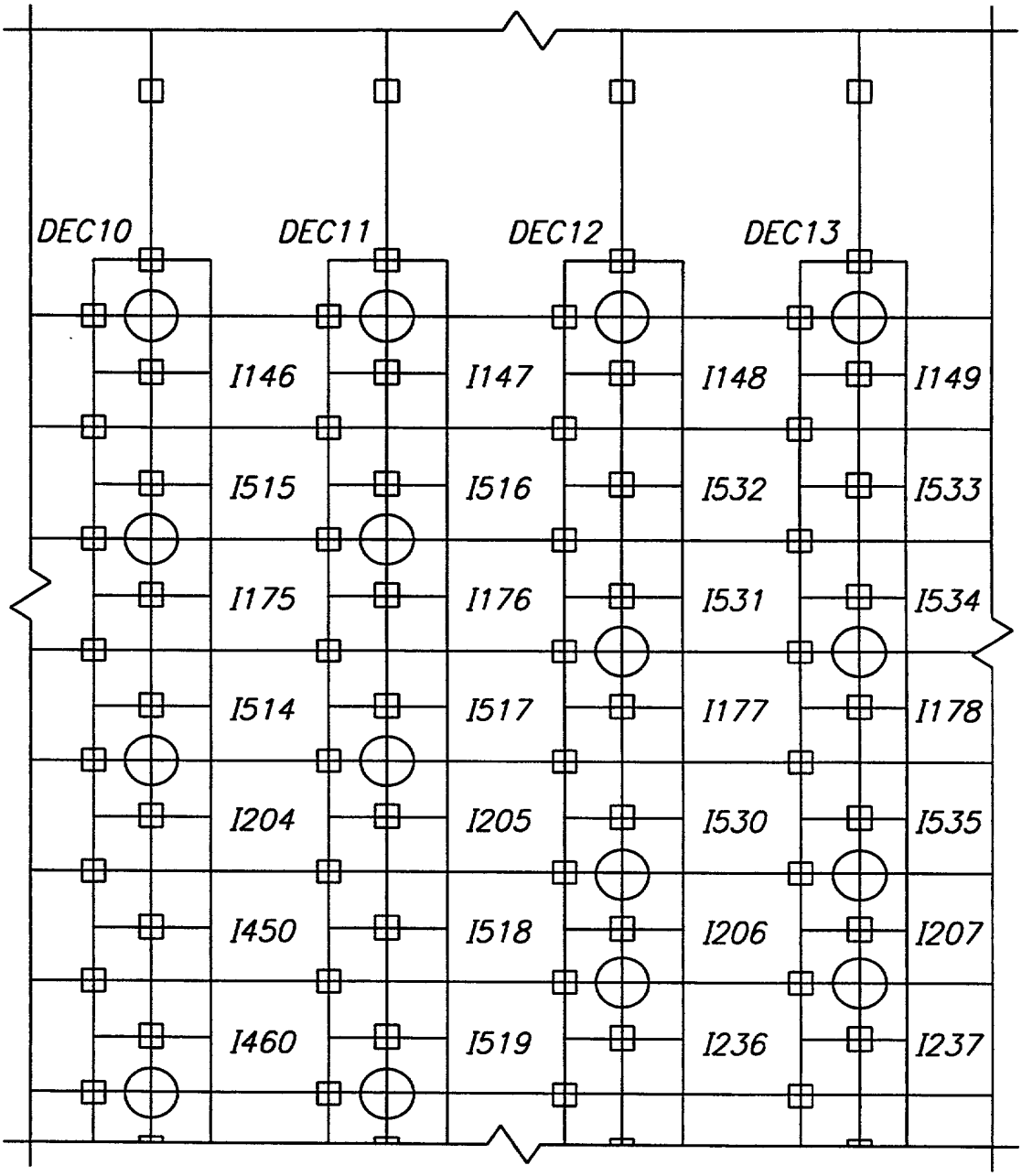


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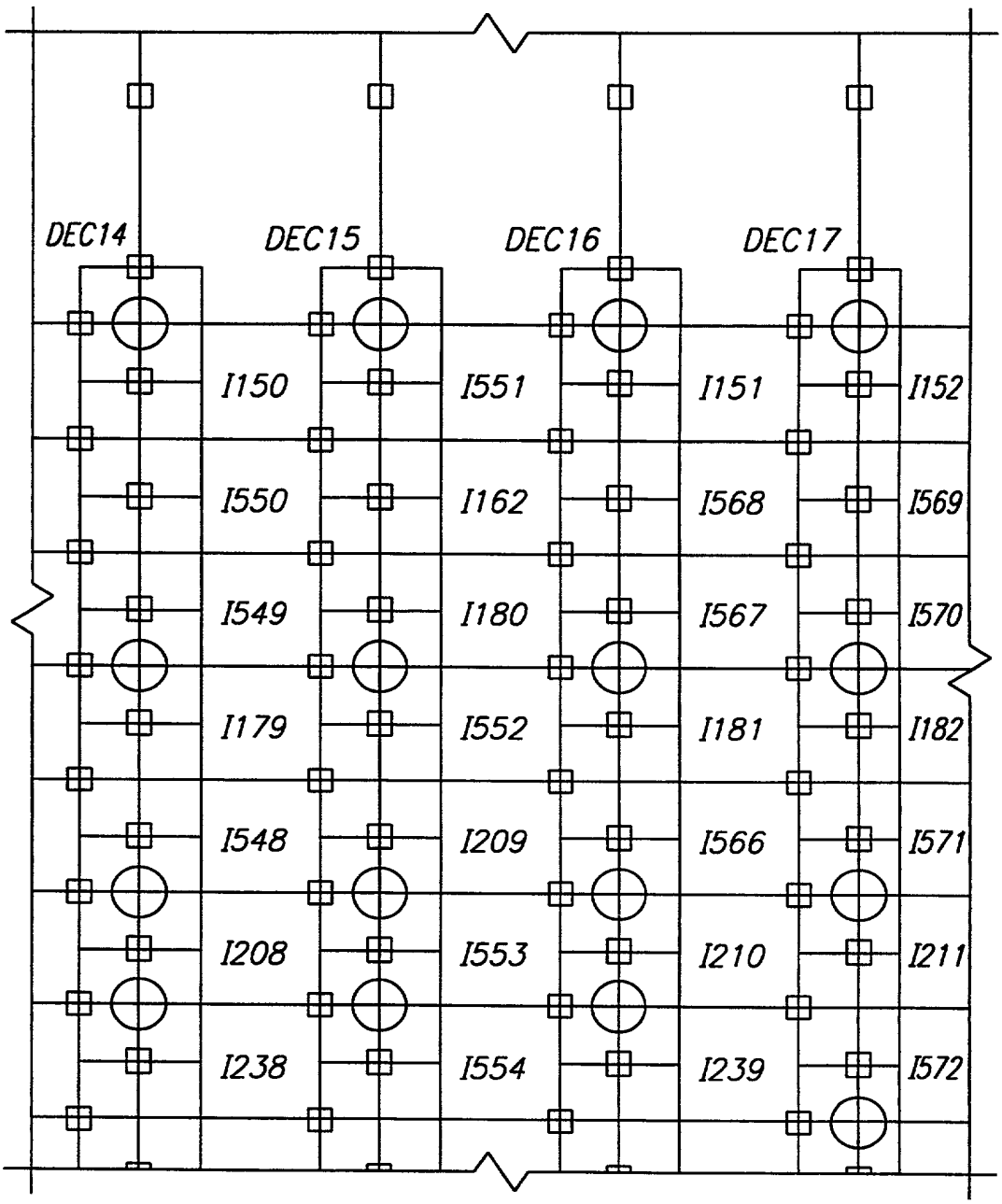

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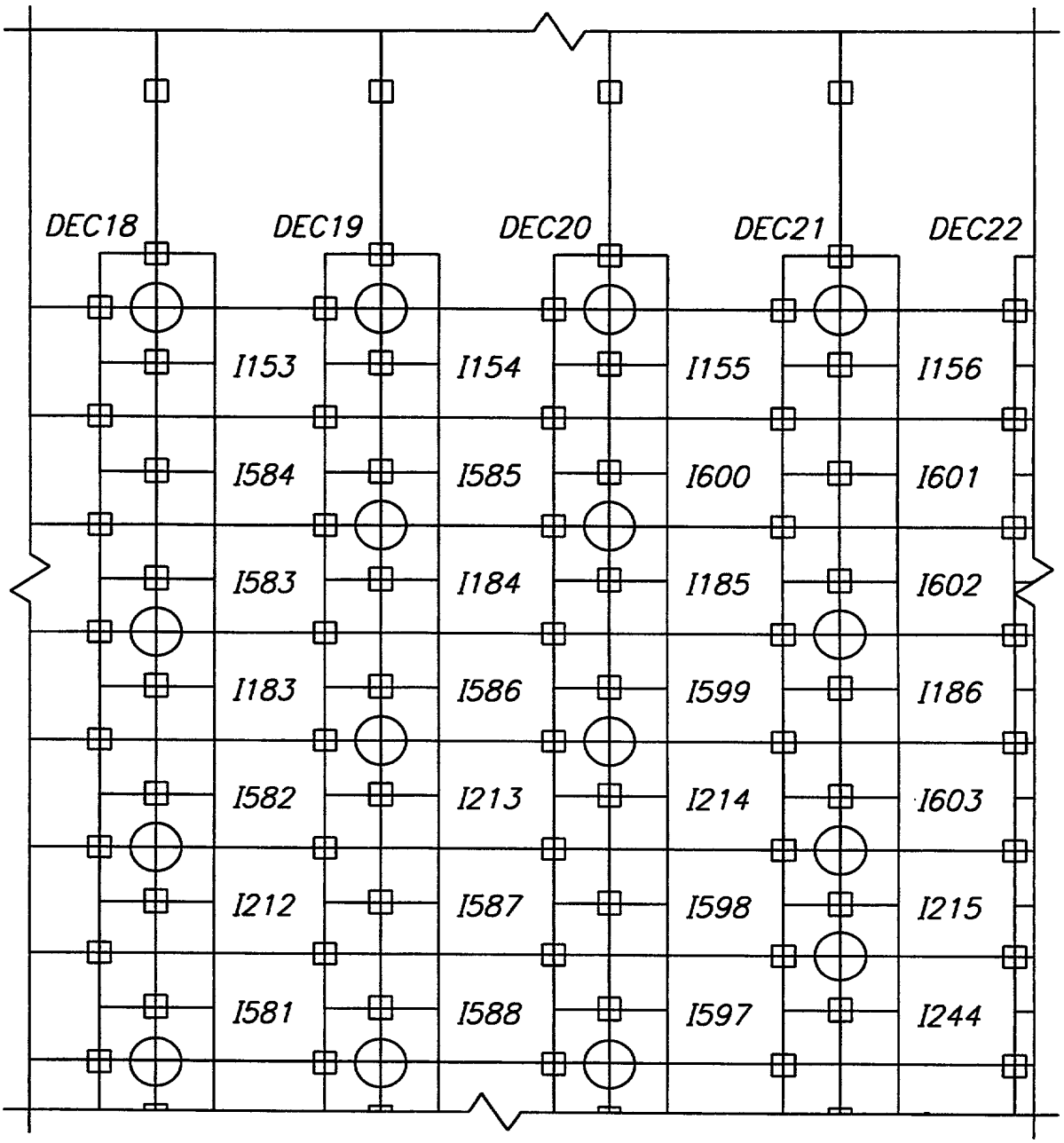


Fig 1.060116F

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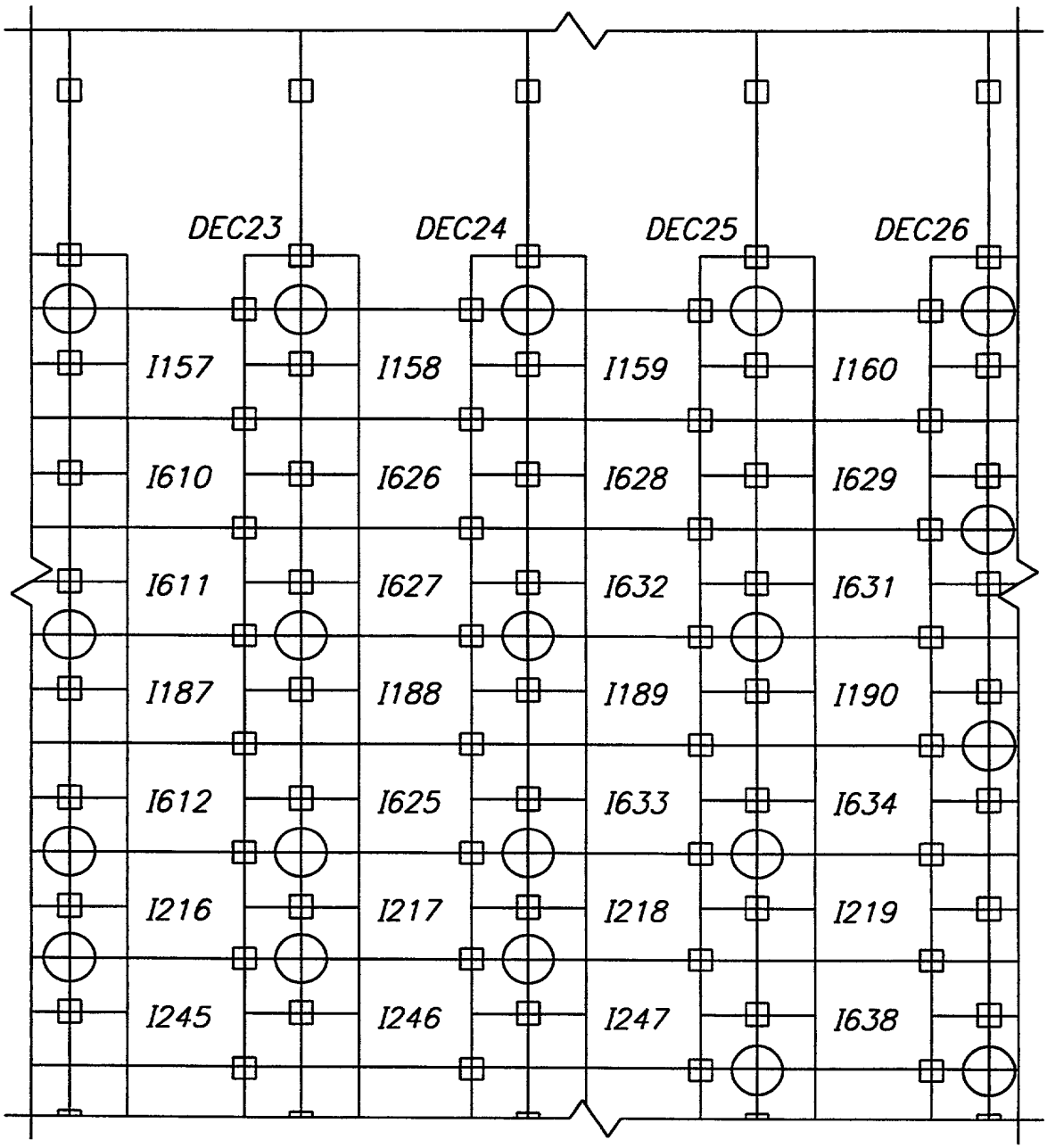
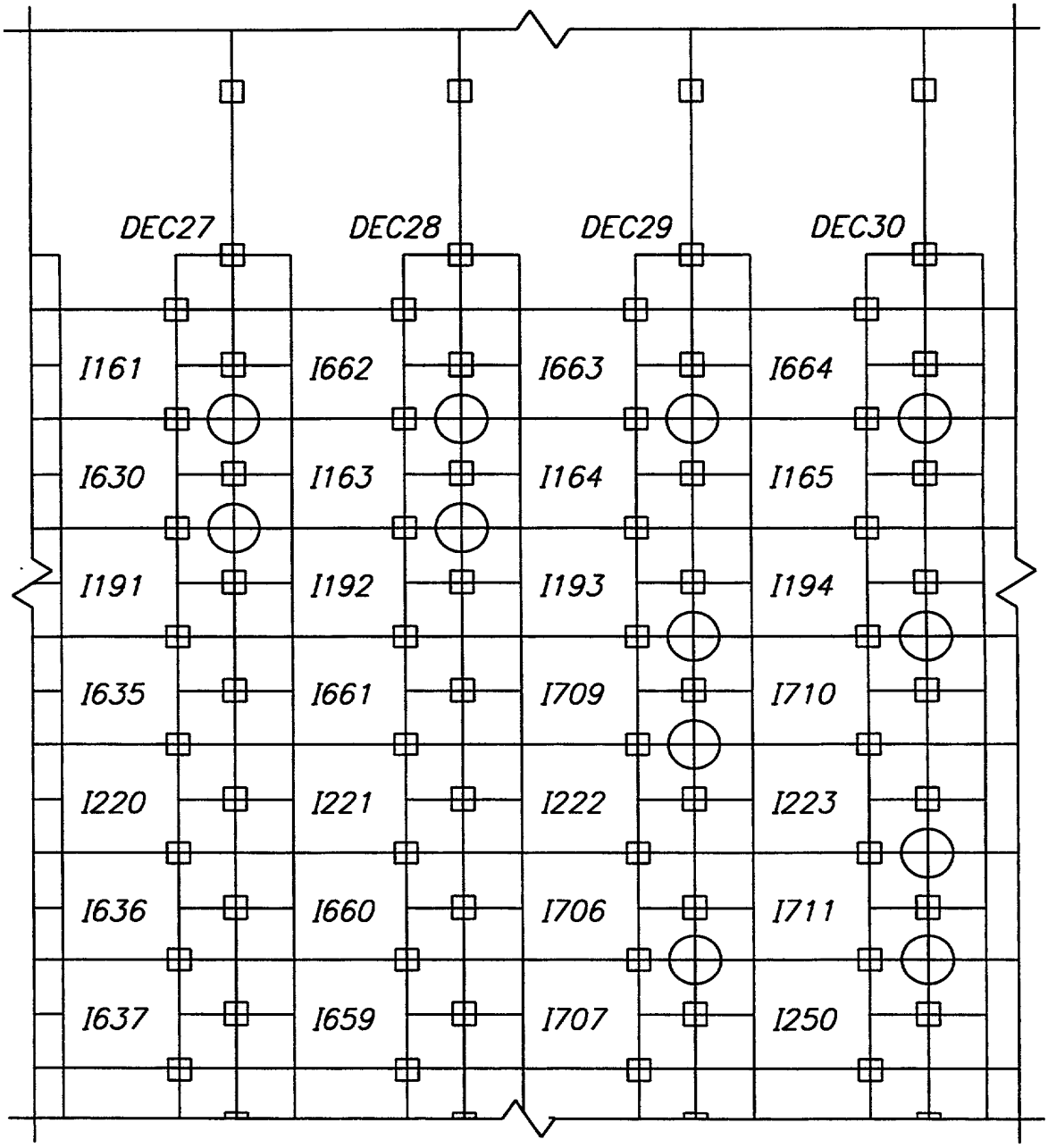


Fig 1.0601166



Лист 1.060110Н

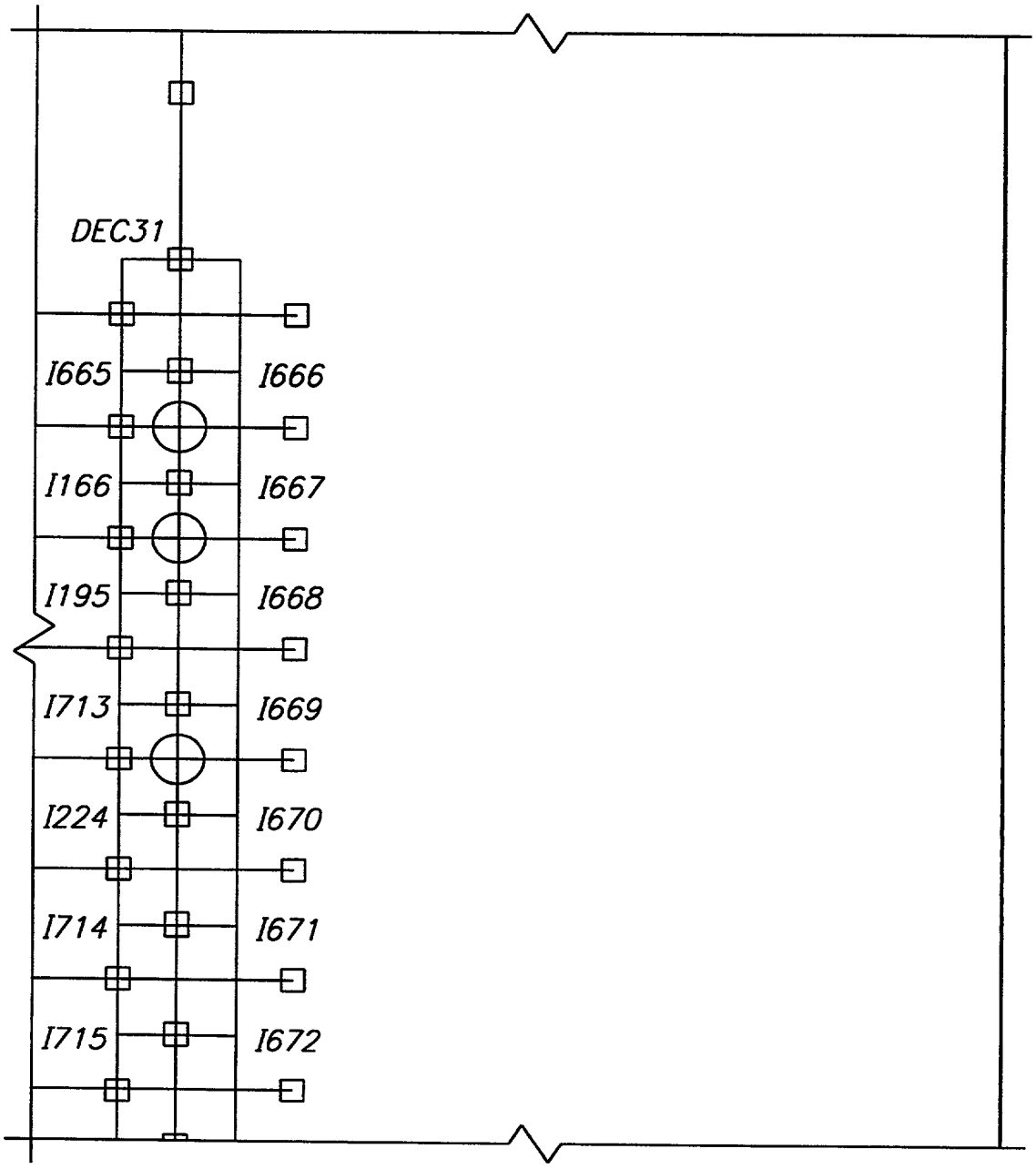

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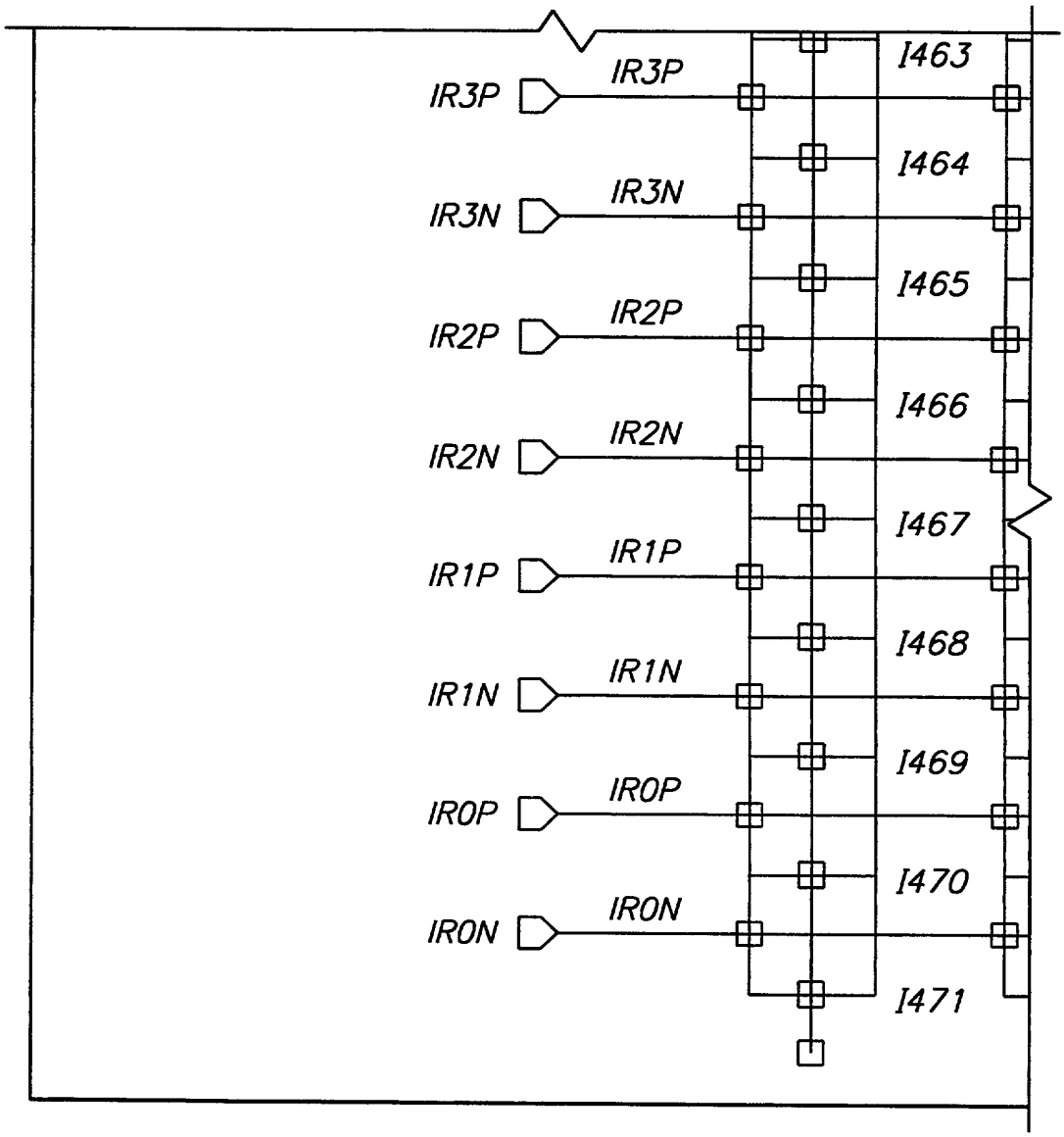
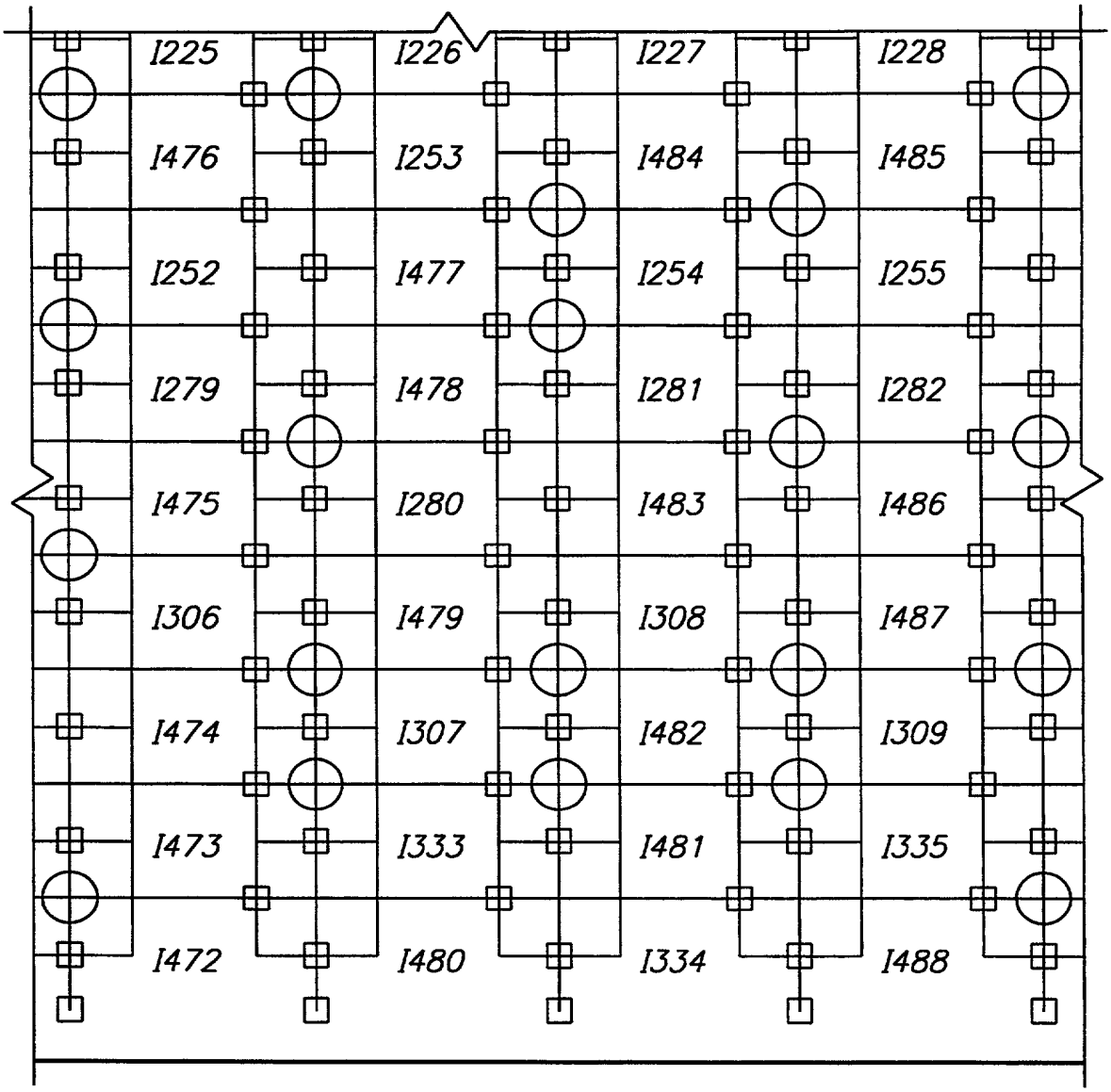


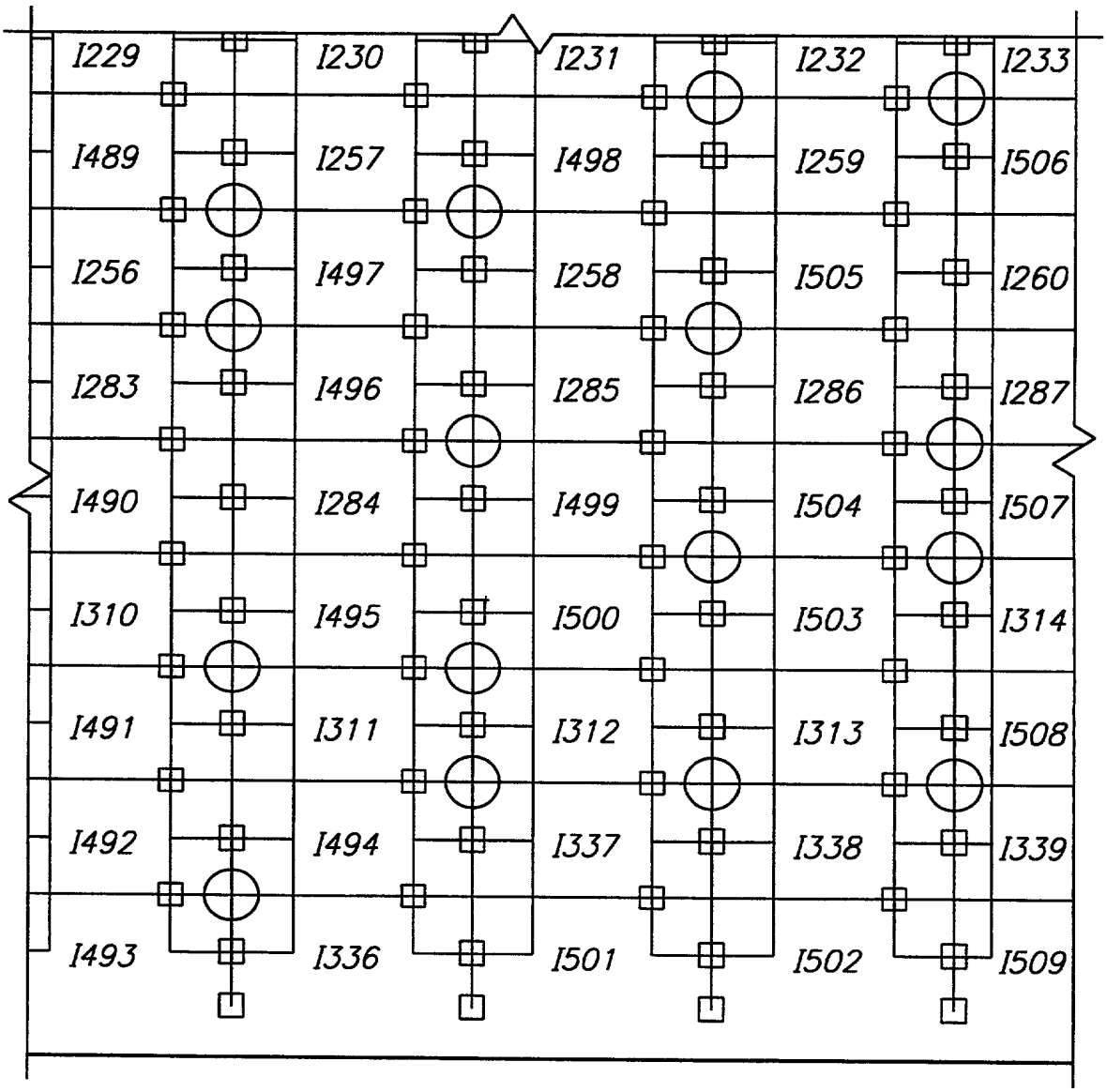
Fig 1.06011HA

555/3273



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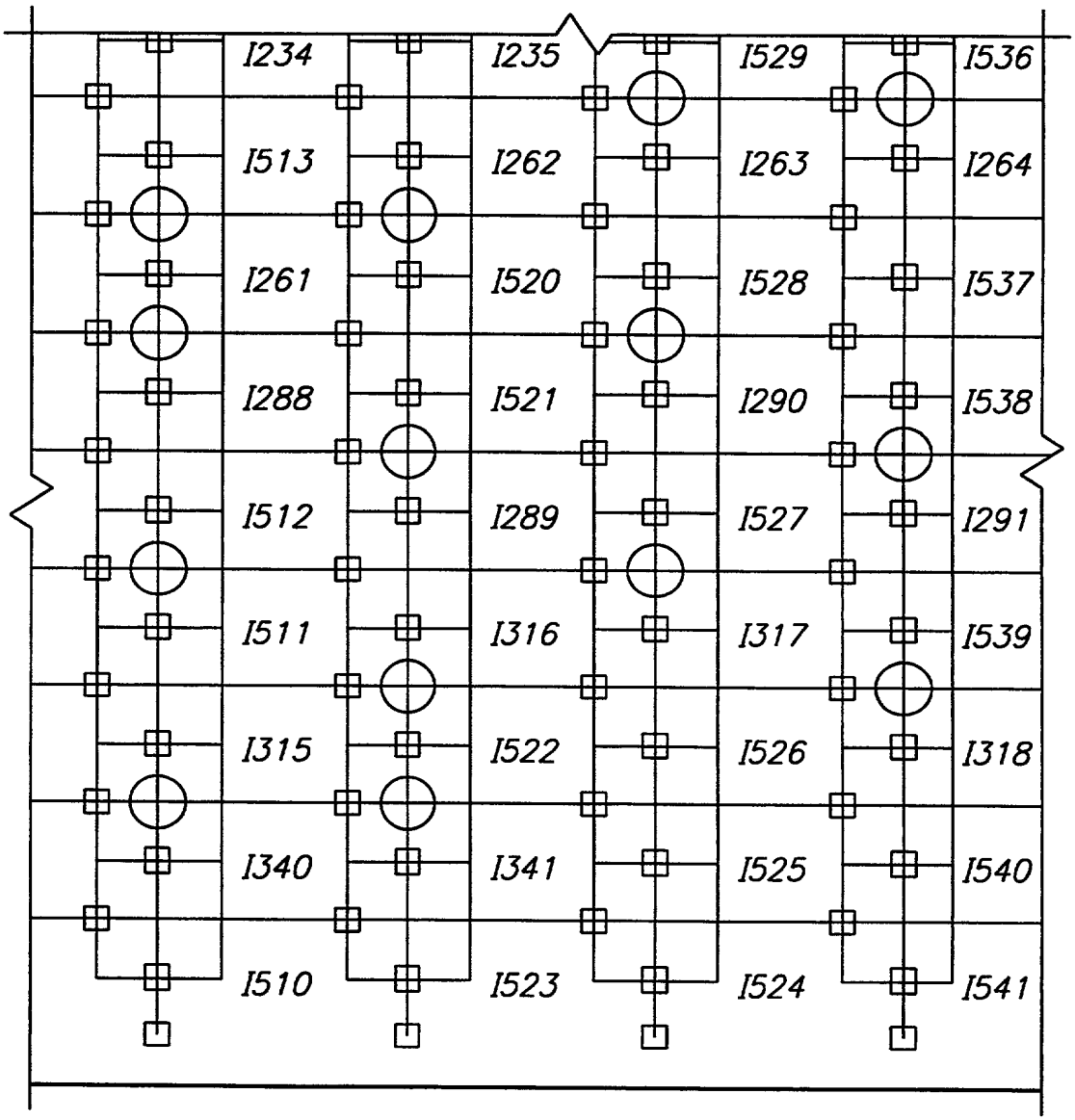
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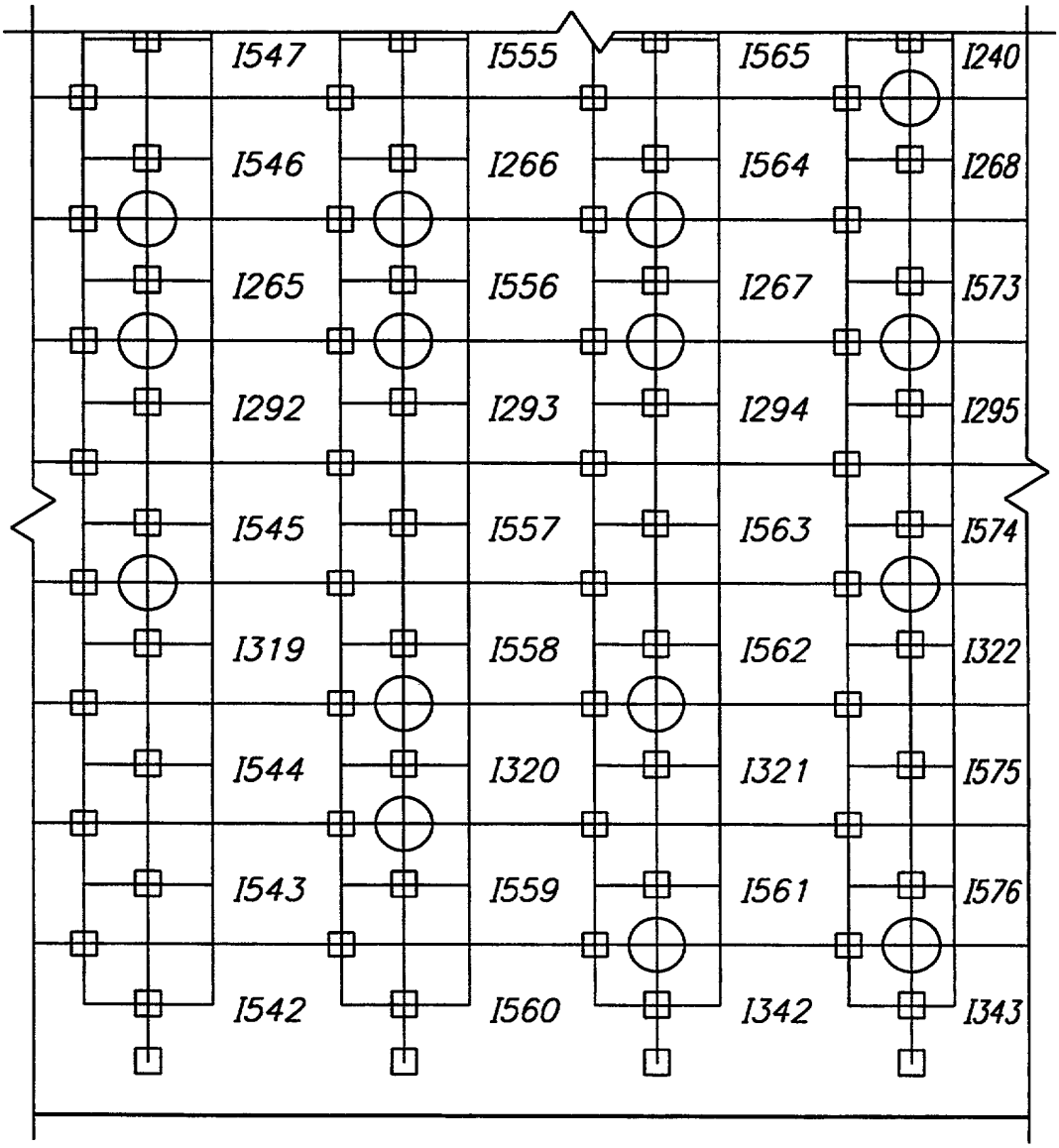
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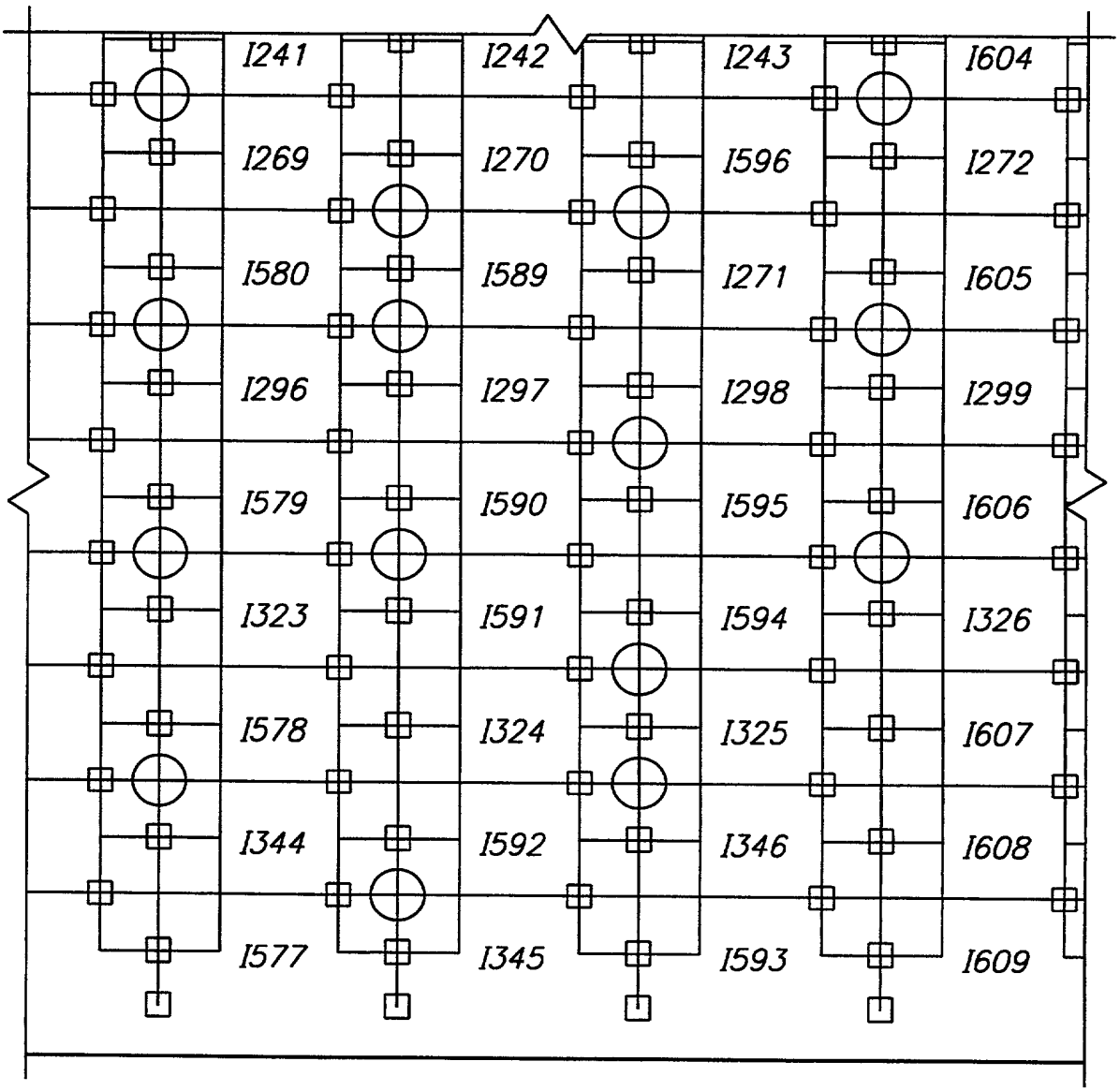


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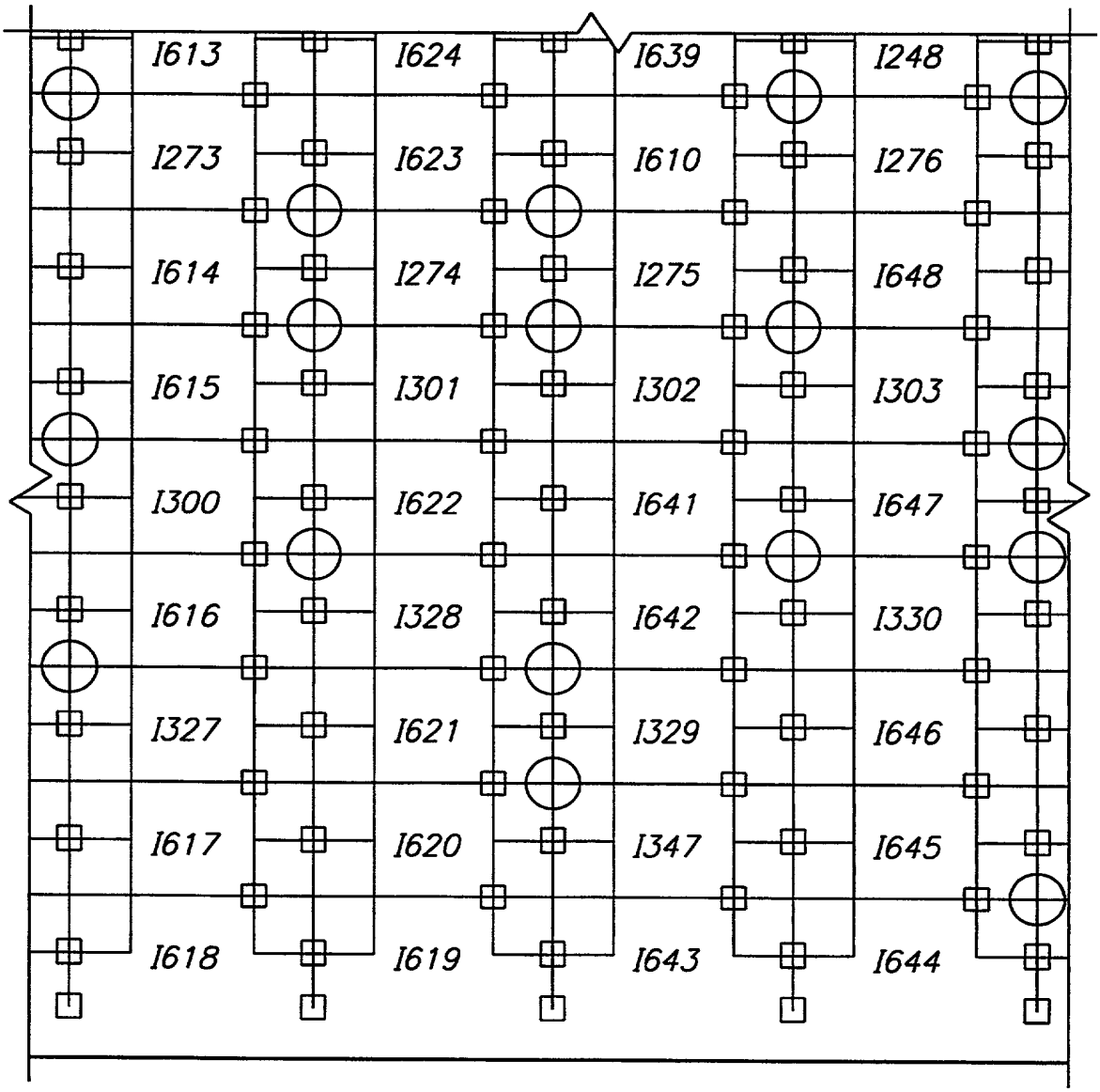


Вид Дополнительный



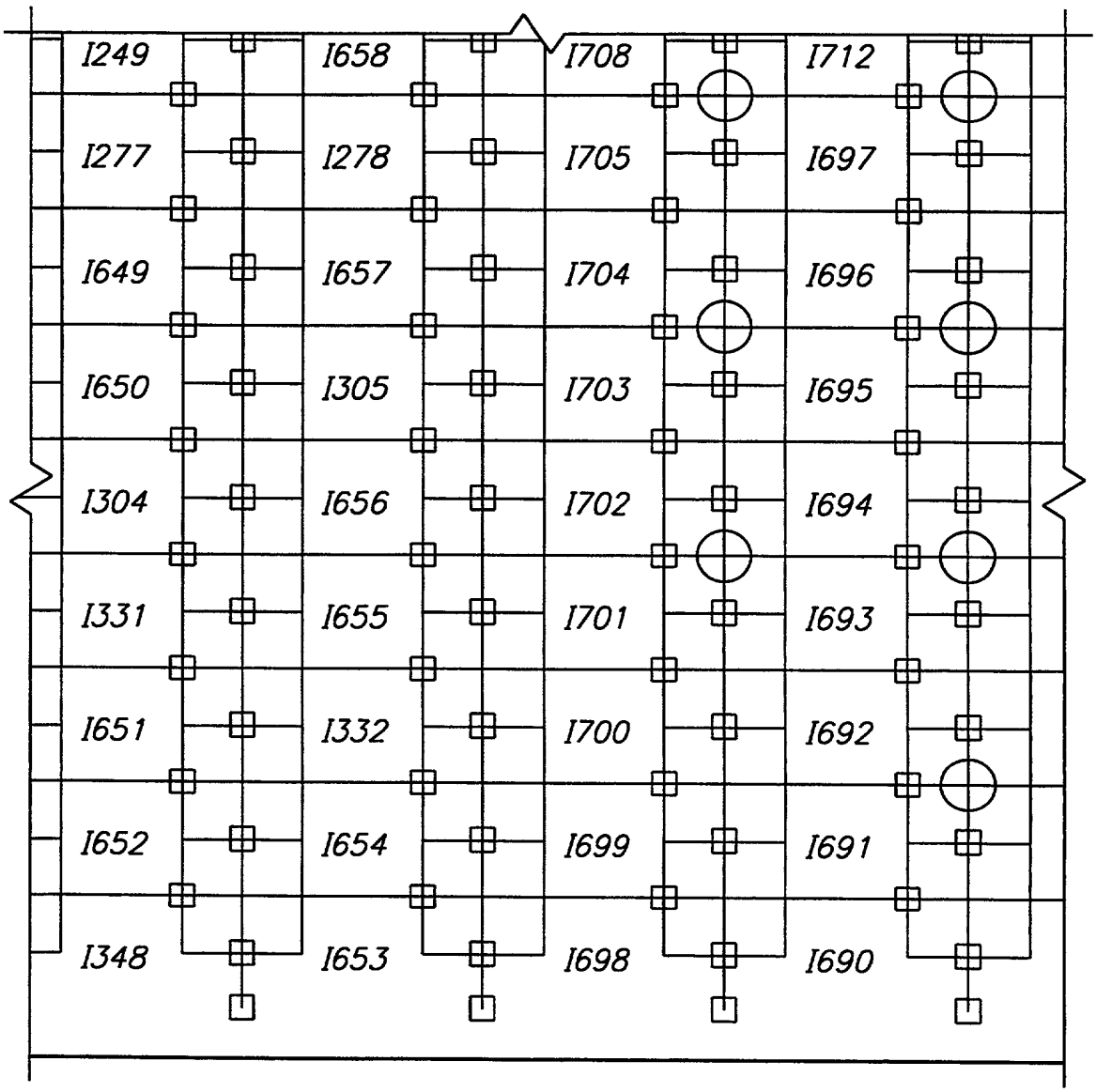
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Госстрой СССР 1990

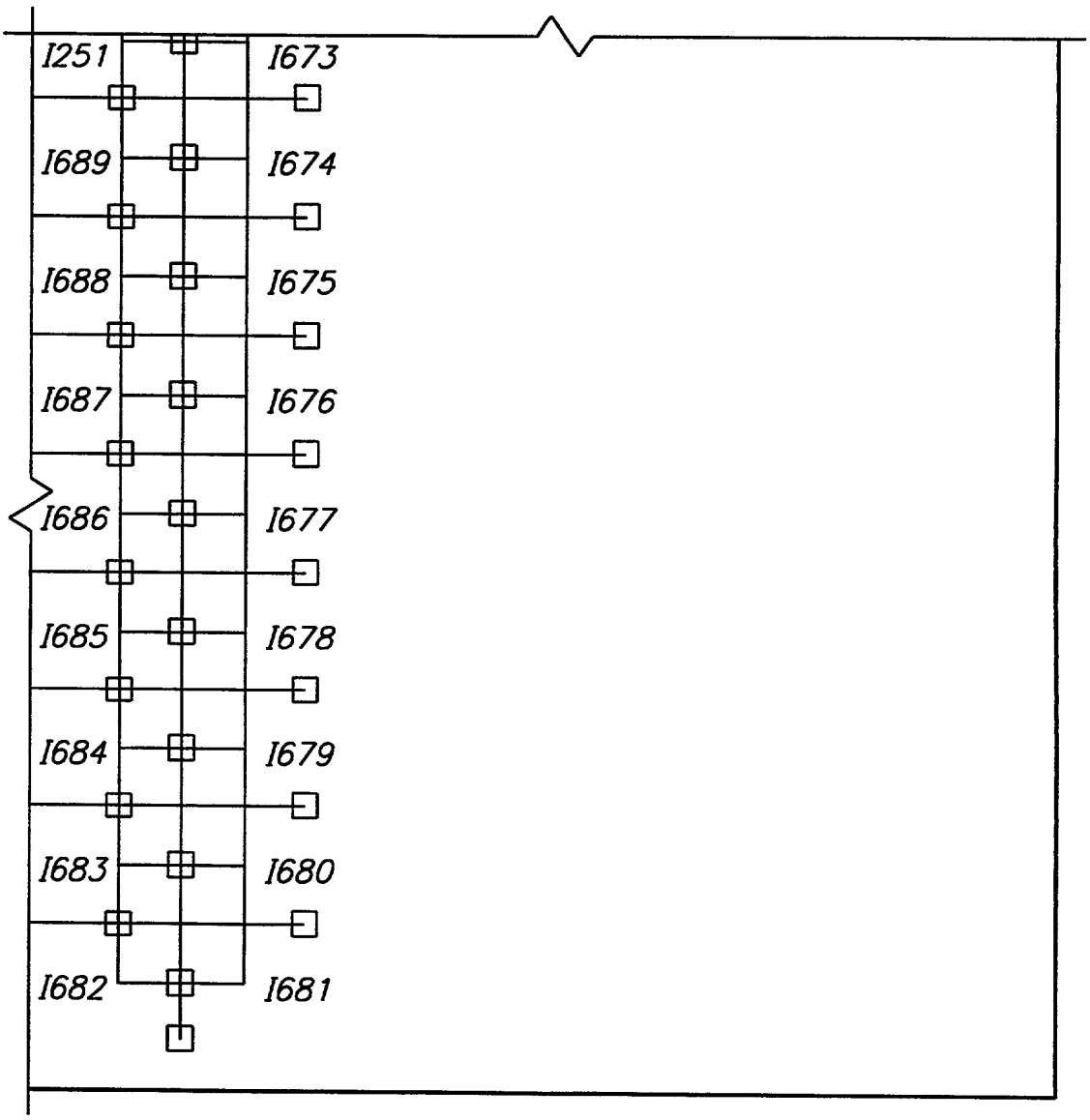


Фиг 1.0600116

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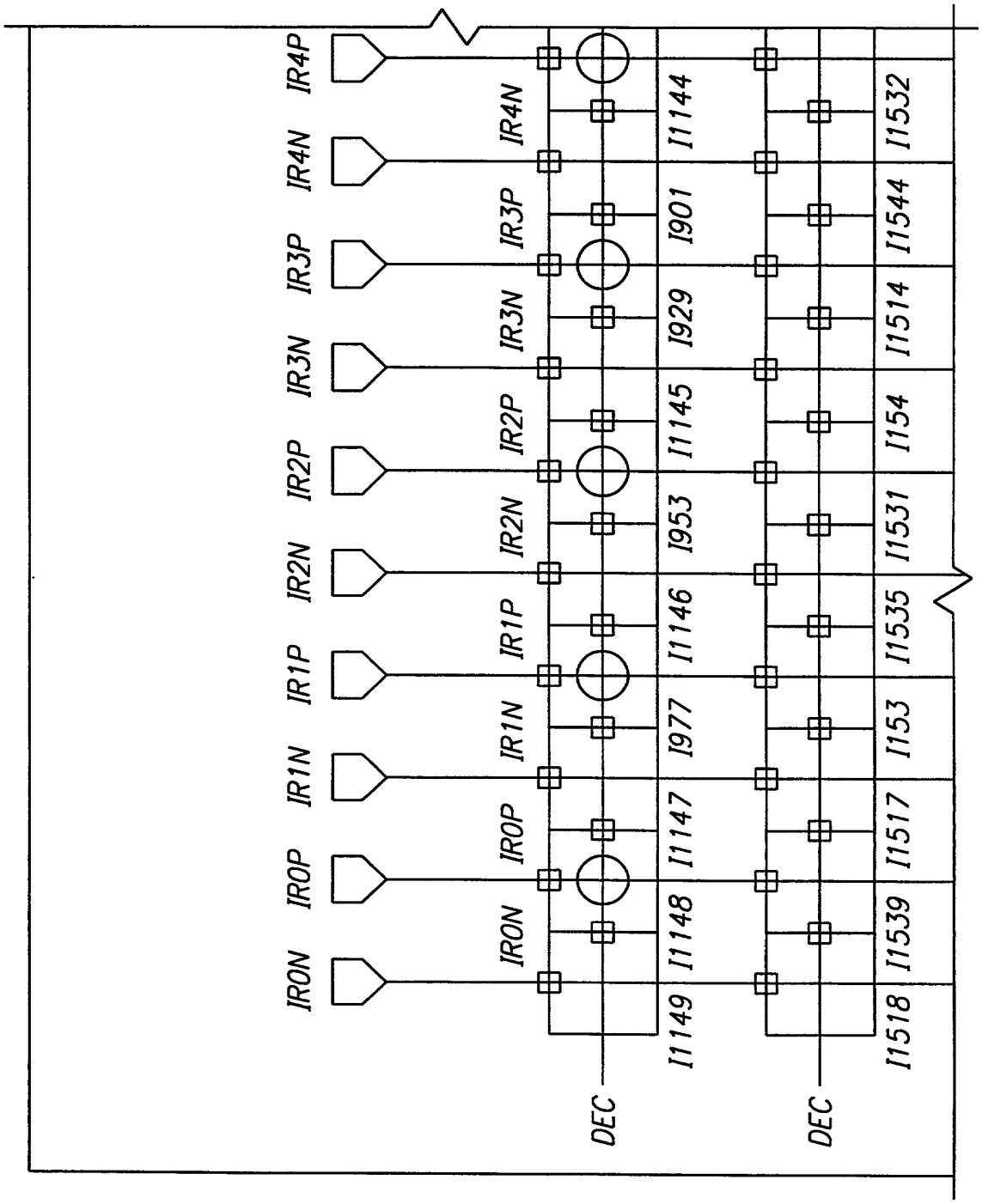
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7.0602CA	7.0602CB	7.0602CC	7.0602CD	7.0602CE	7.0602CF	7.0602CG	7.0602CH
7.0602DA	7.0602DB	7.0602DC	7.0602DD	7.0602DE	7.0602DF	7.0602DG	7.0602DH
7.0602EA	7.0602EB	7.0602EC	7.0602ED	7.0602EE	7.0602EF	7.0602EG	7.0602EH
7.0602FA	7.0602FB	7.0602FC	7.0602FD	7.0602FE	7.0602FF	7.0602FG	7.0602FH
7.0602GA	7.0602GB	7.0602GC	7.0602GD	7.0602GE	7.0602GF	7.0602GG	7.0602GH
7.0602HA	7.0602HB	7.0602HC	7.0602HD	7.0602HE	7.0602HF	7.0602HG	7.0602HH
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Fig 7.0602



Фиг. 1000

FOTTSO:20020640

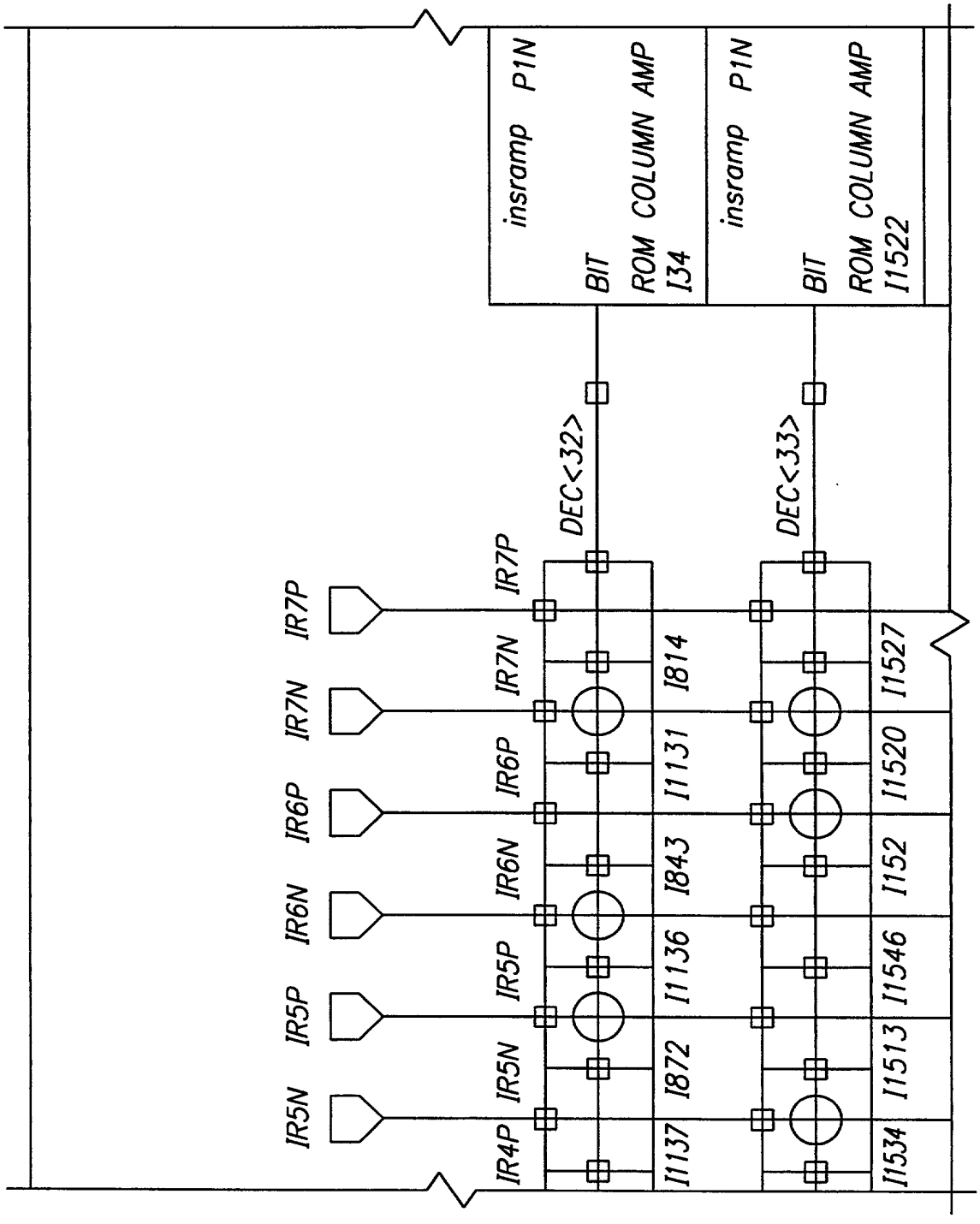
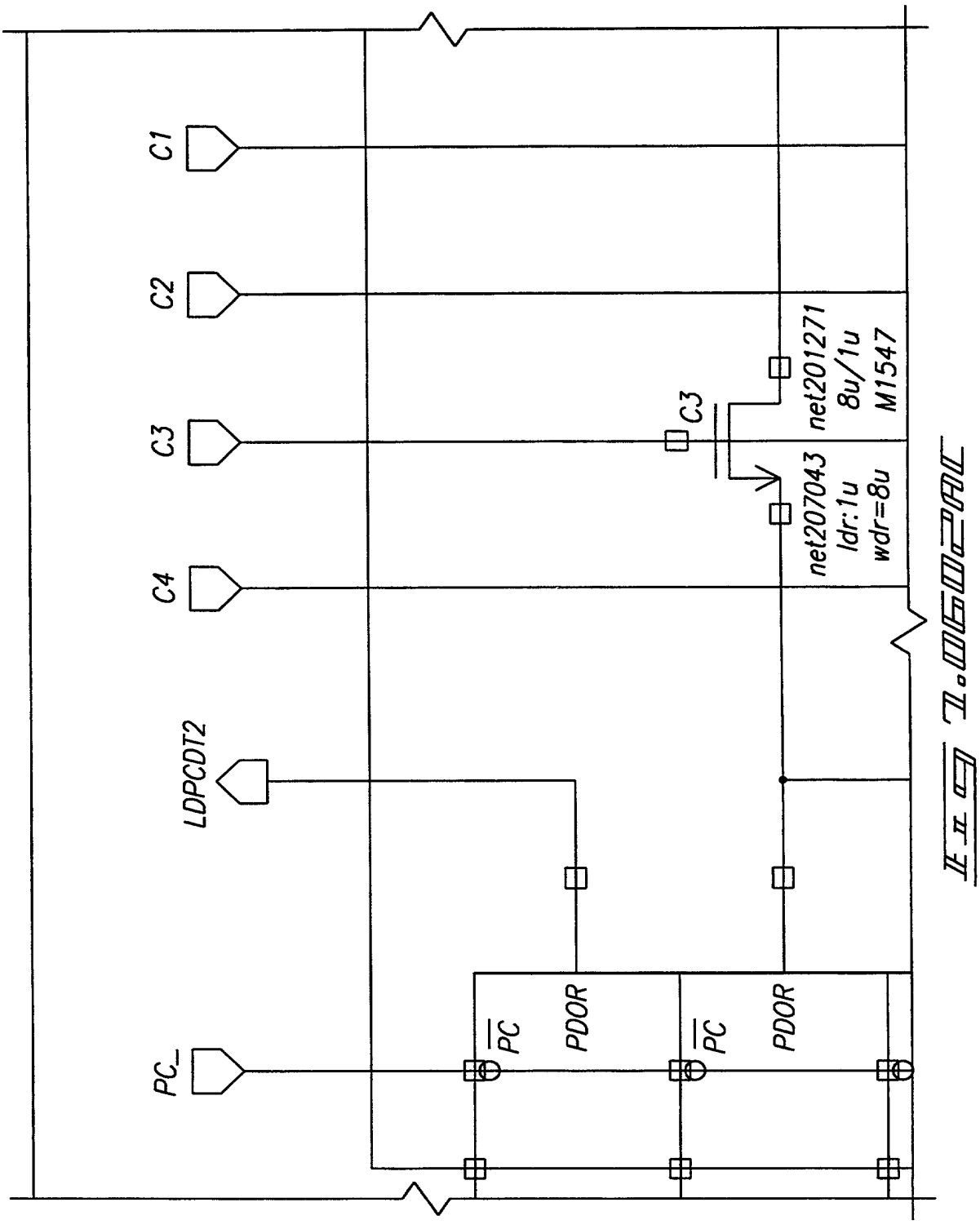
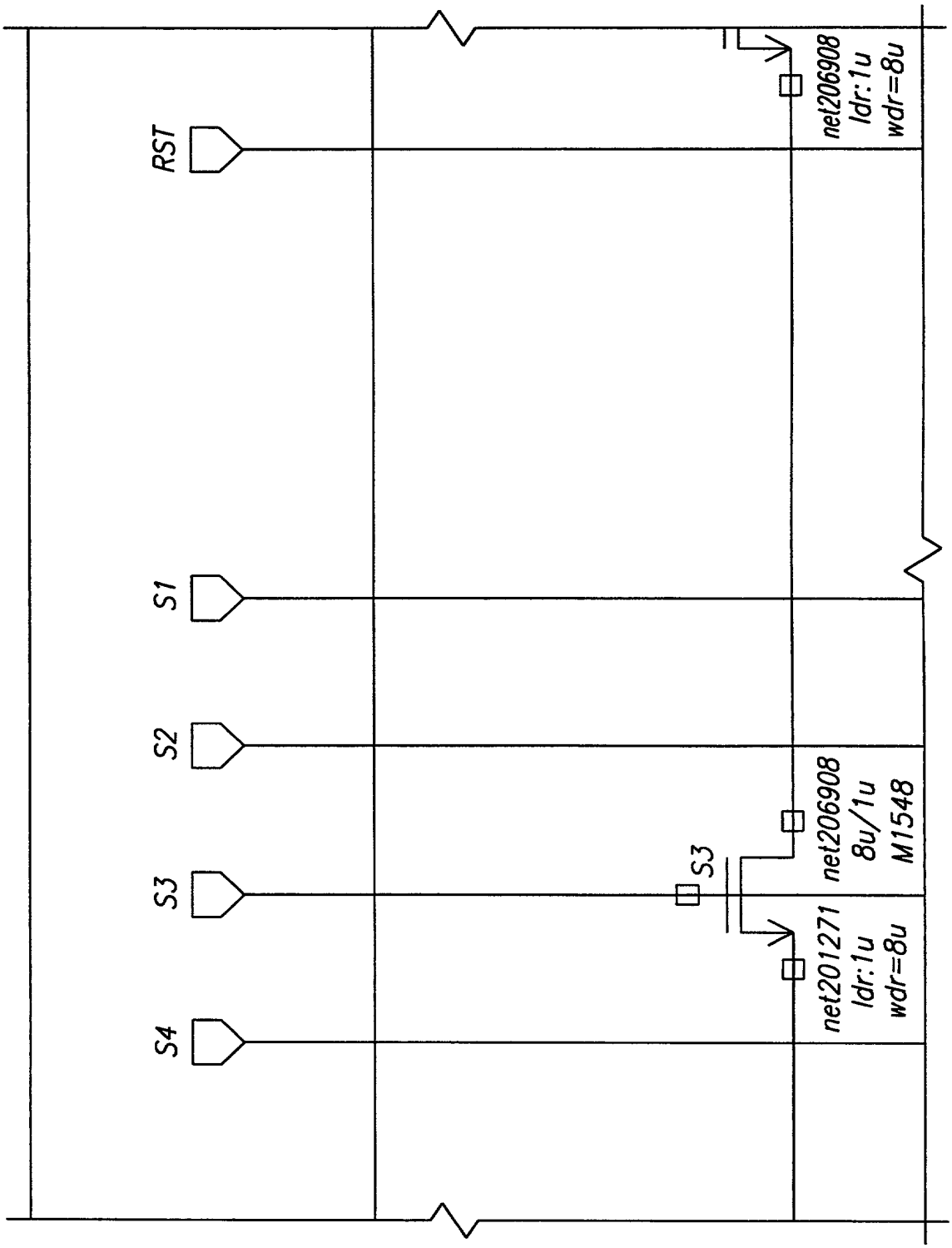

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Fig. 1.0500AB



Фиг 1.00602AC

EP1754250A2



Фиг. 1.0500249

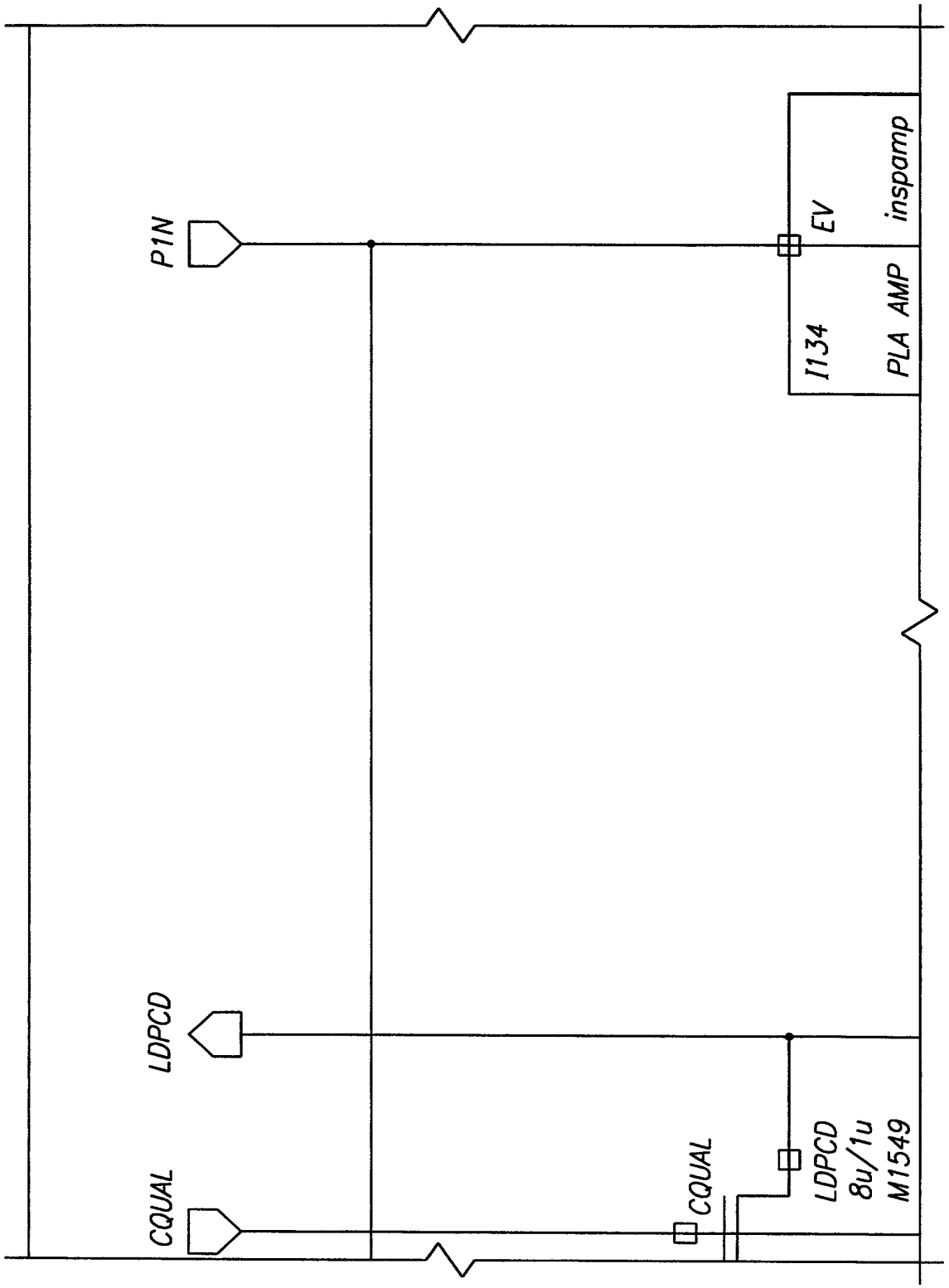
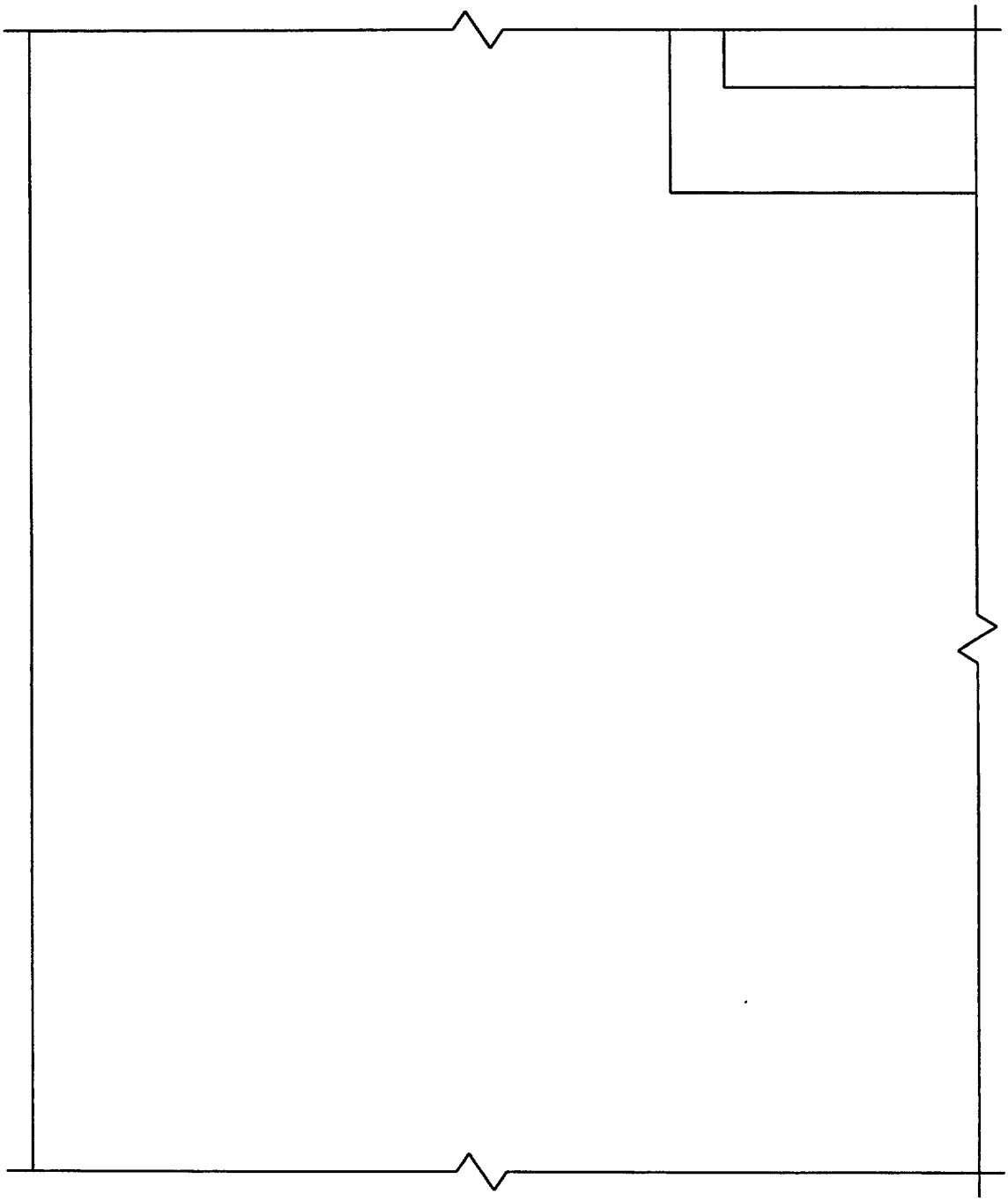
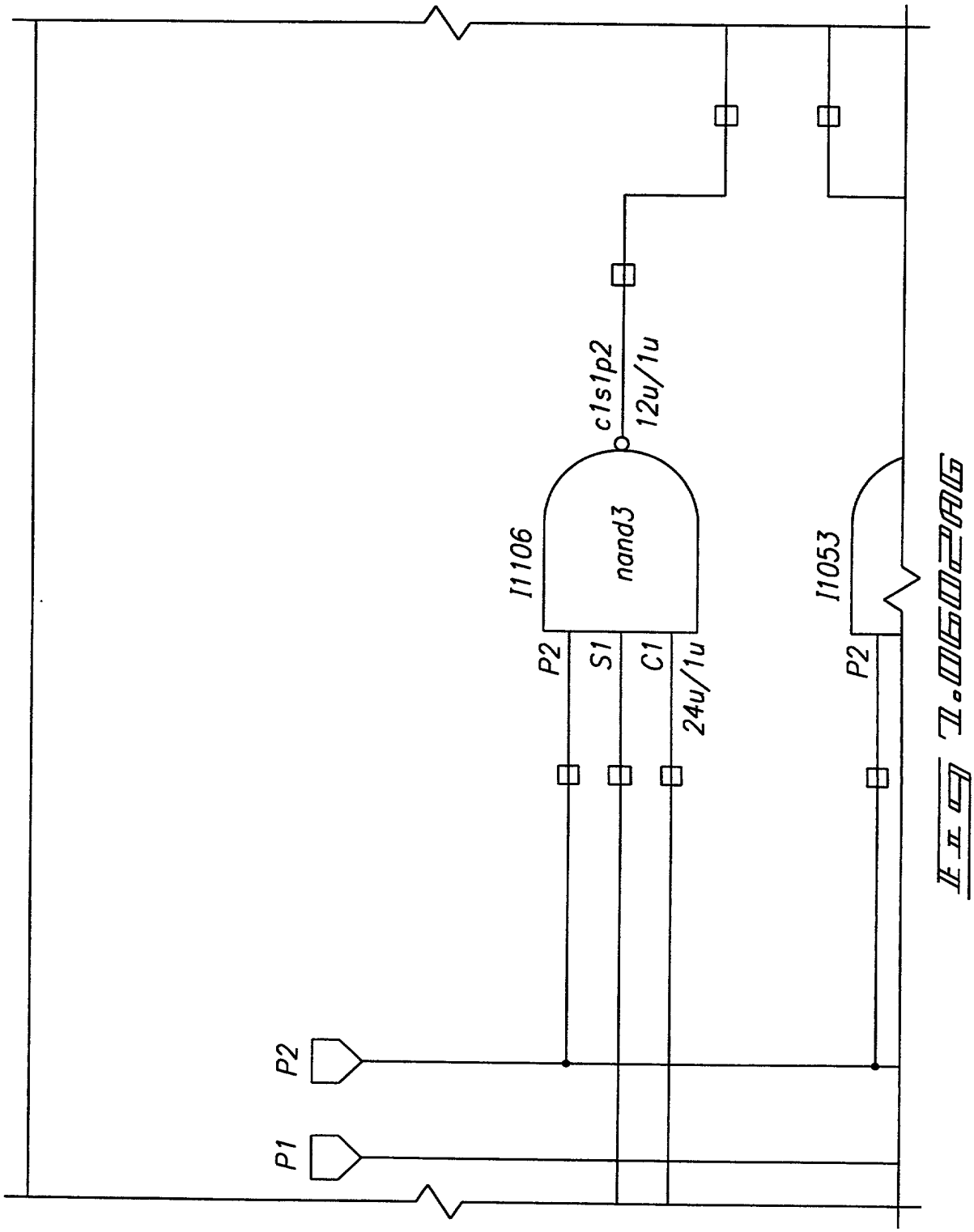

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CQUAL
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Fig 1.0500AE


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PROPOSED DRIVEWAY



Фиг 4 П.00600245

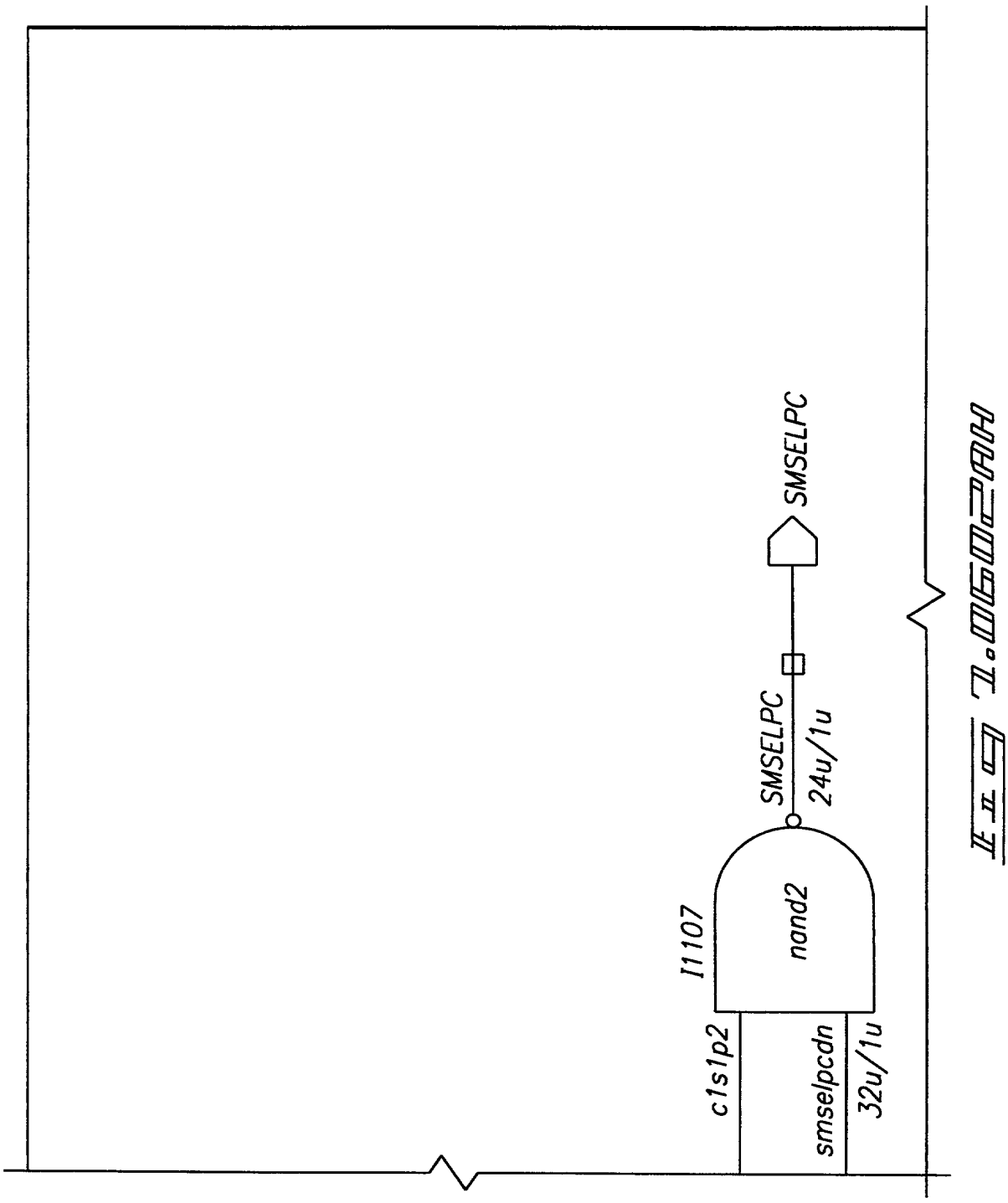
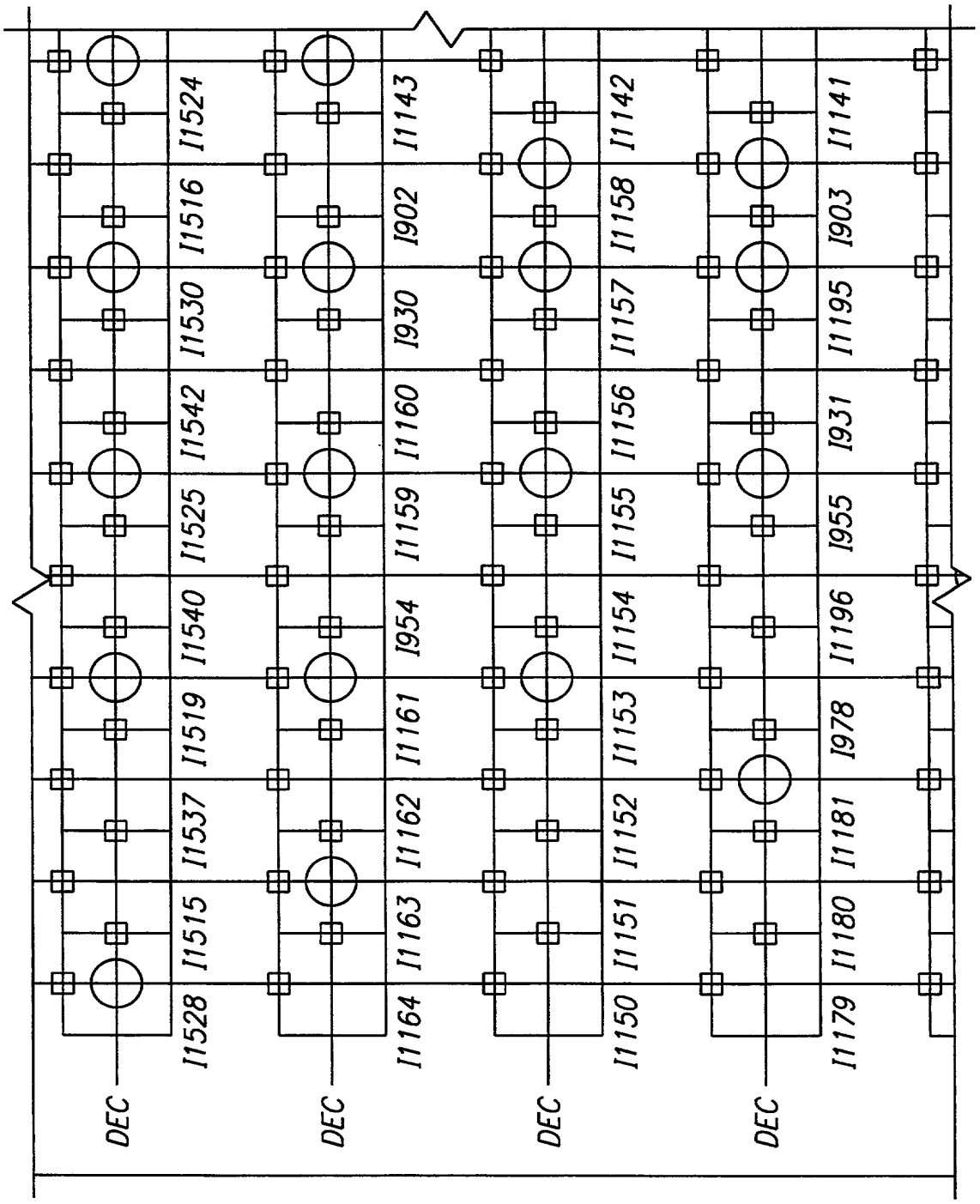


Fig 1.0500AH

Patent Application



Фиг. 1.0600ZBA

1.0.1.5.0.1.2.2.0.6.6.4.0

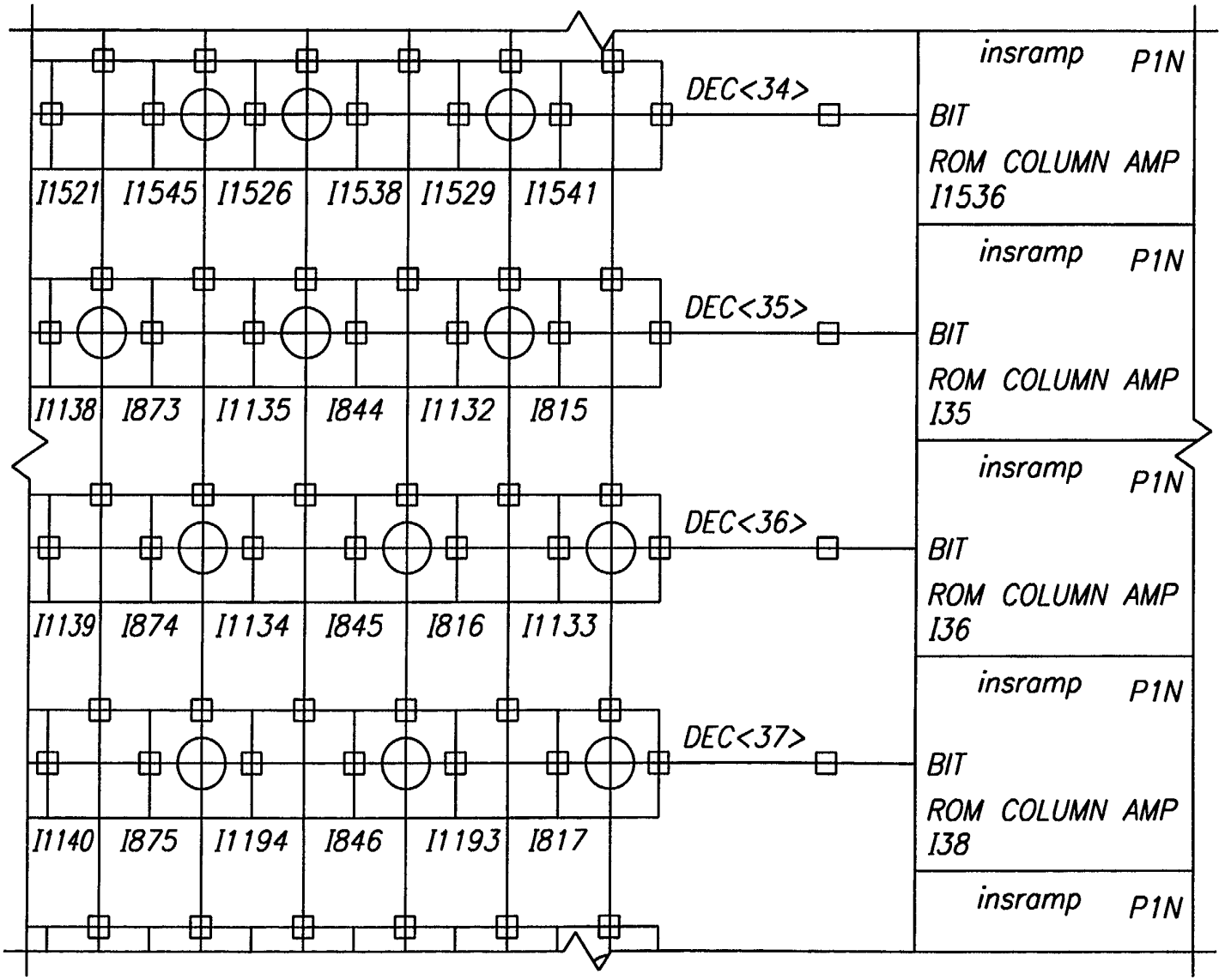
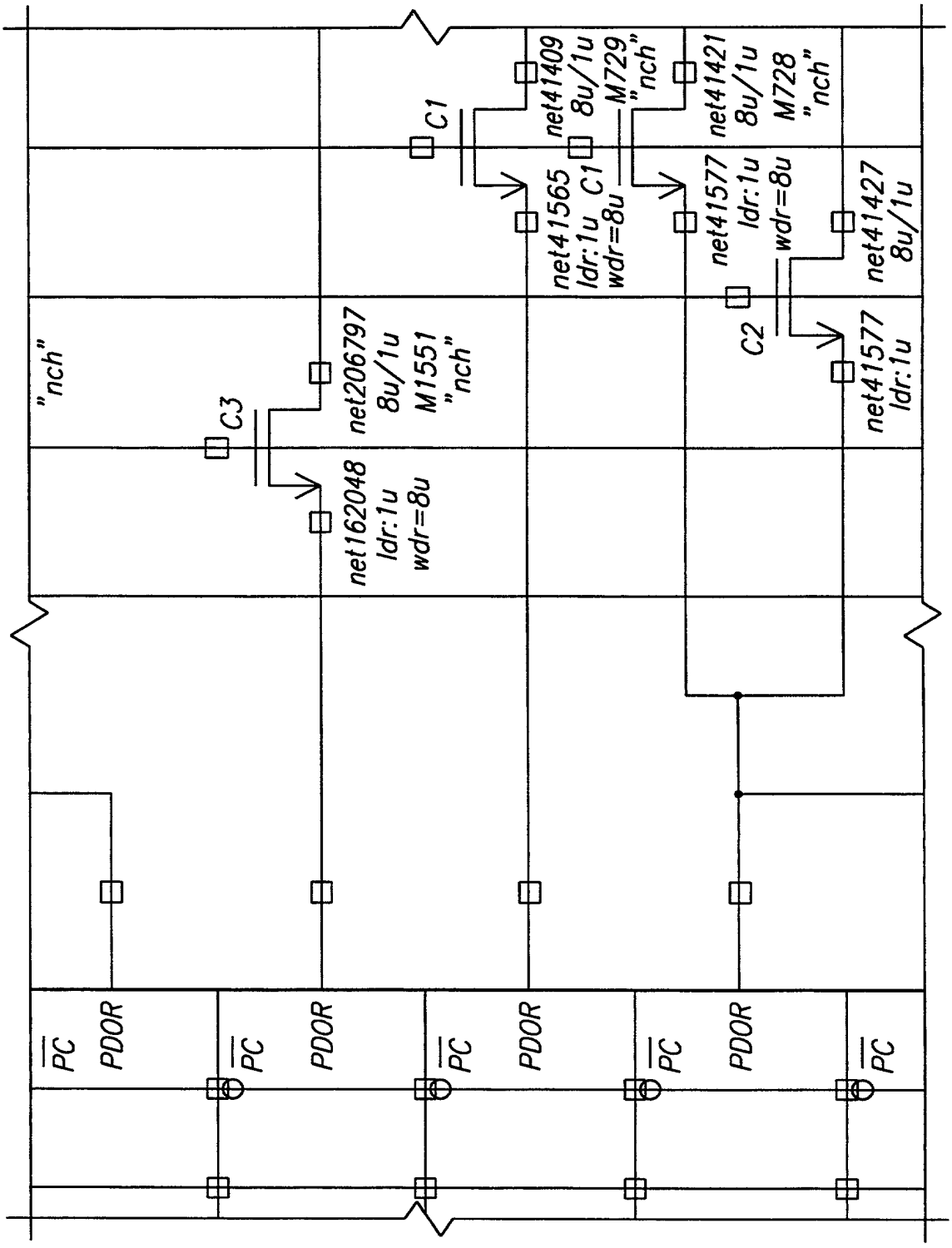
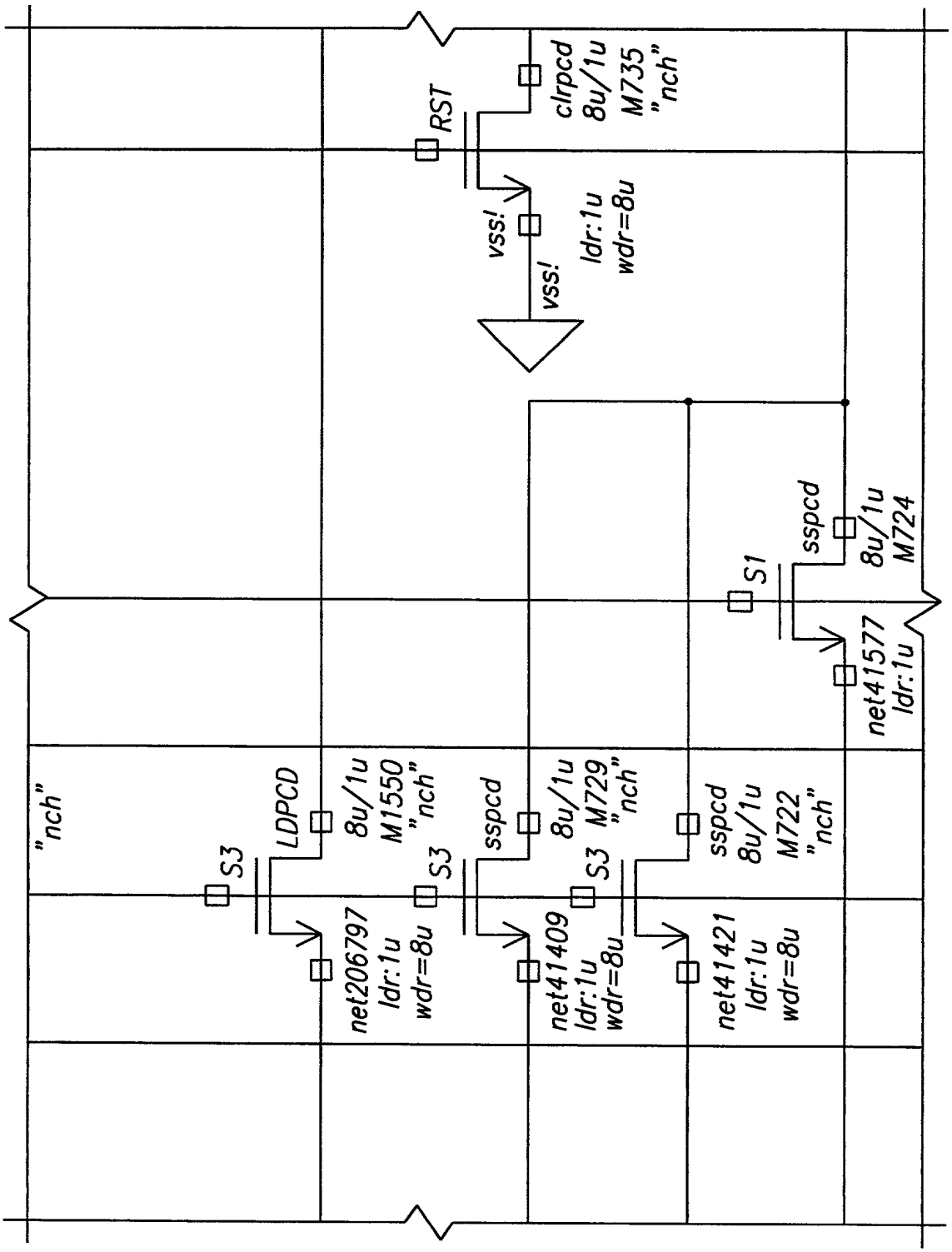

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Fig 1.0602BB

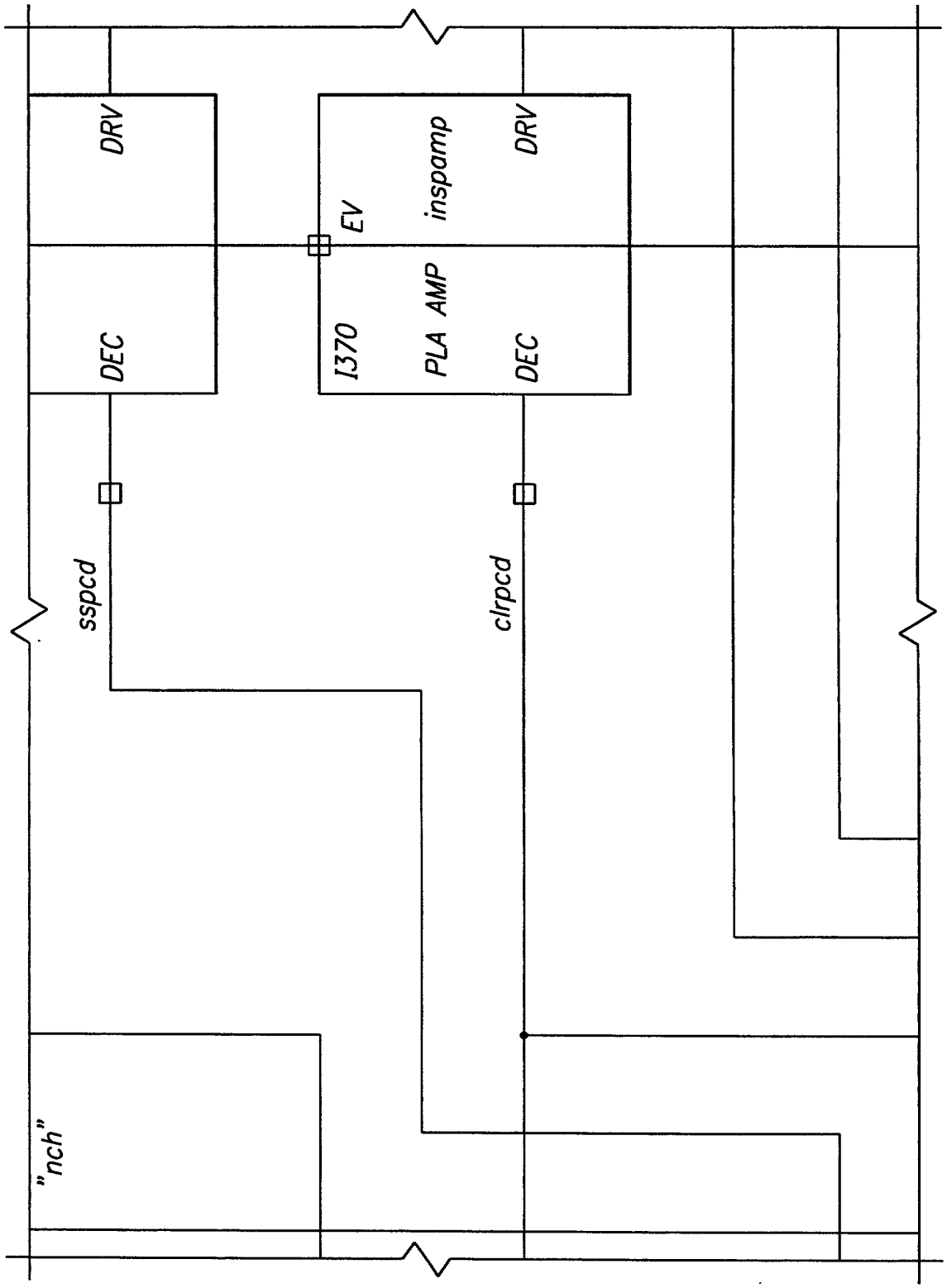


Фиг. 1.0600ZBL



Фиг. 1.0580

Patent Application Publication



Фиг. 1

Patent application published

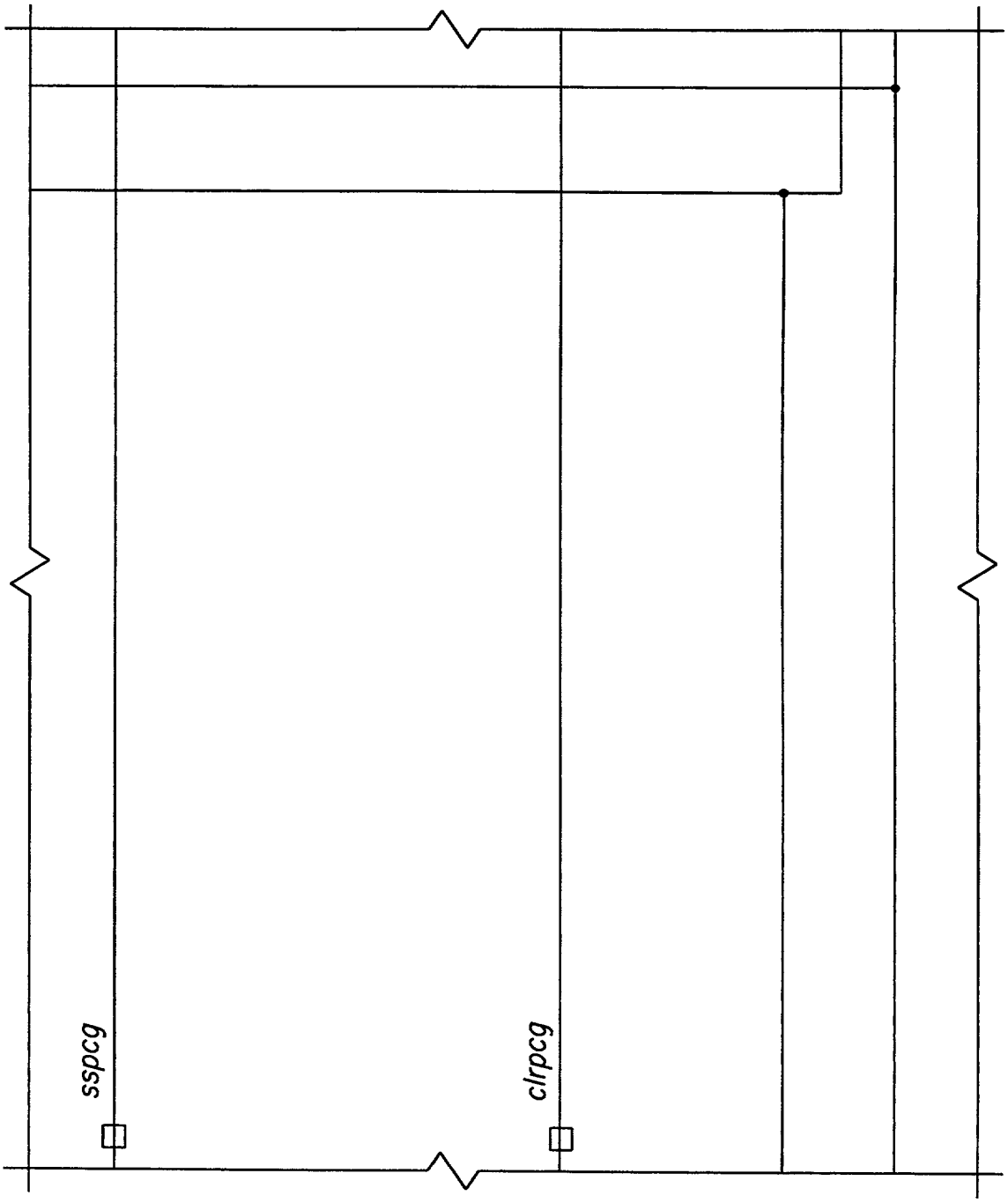
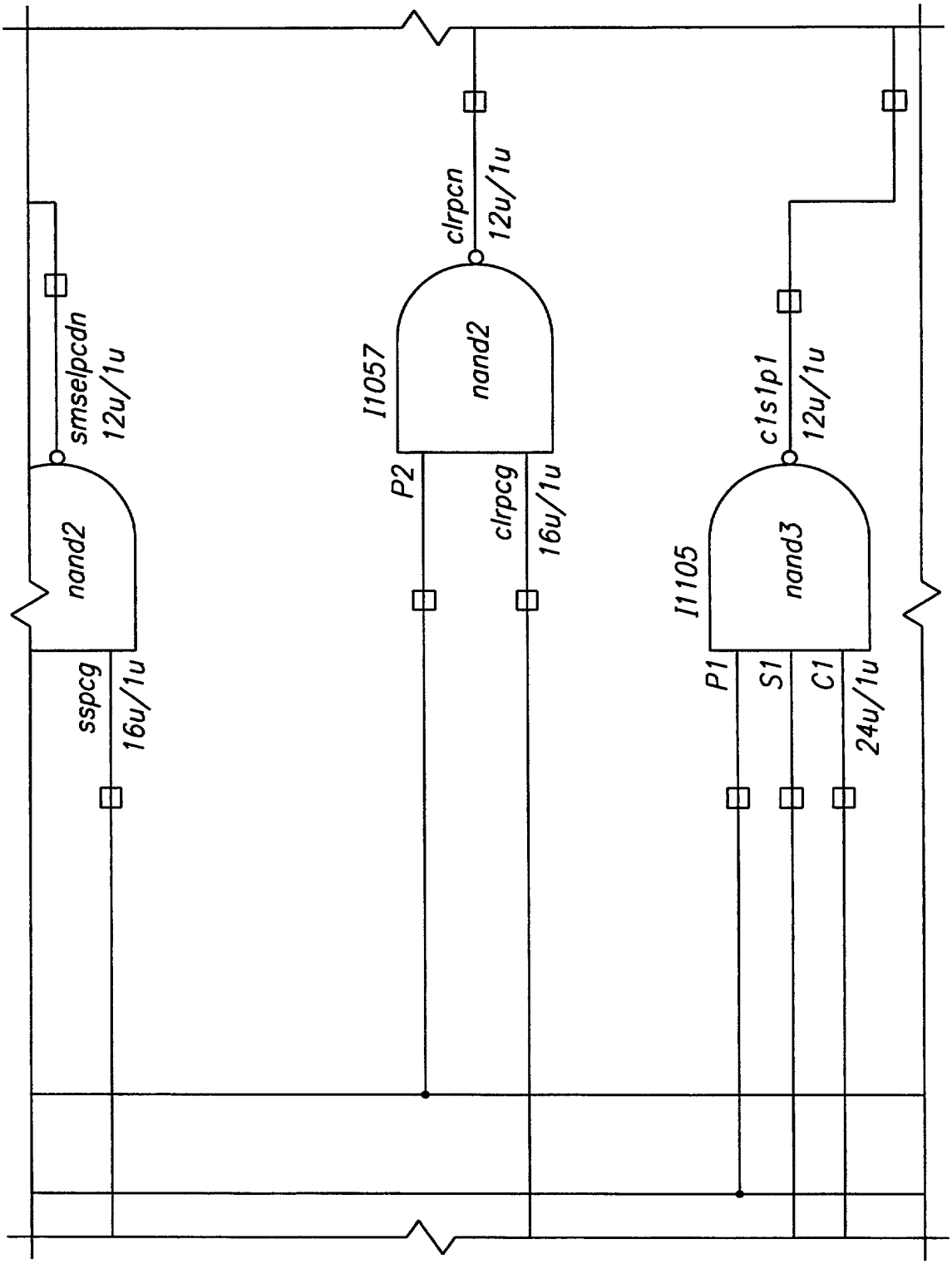
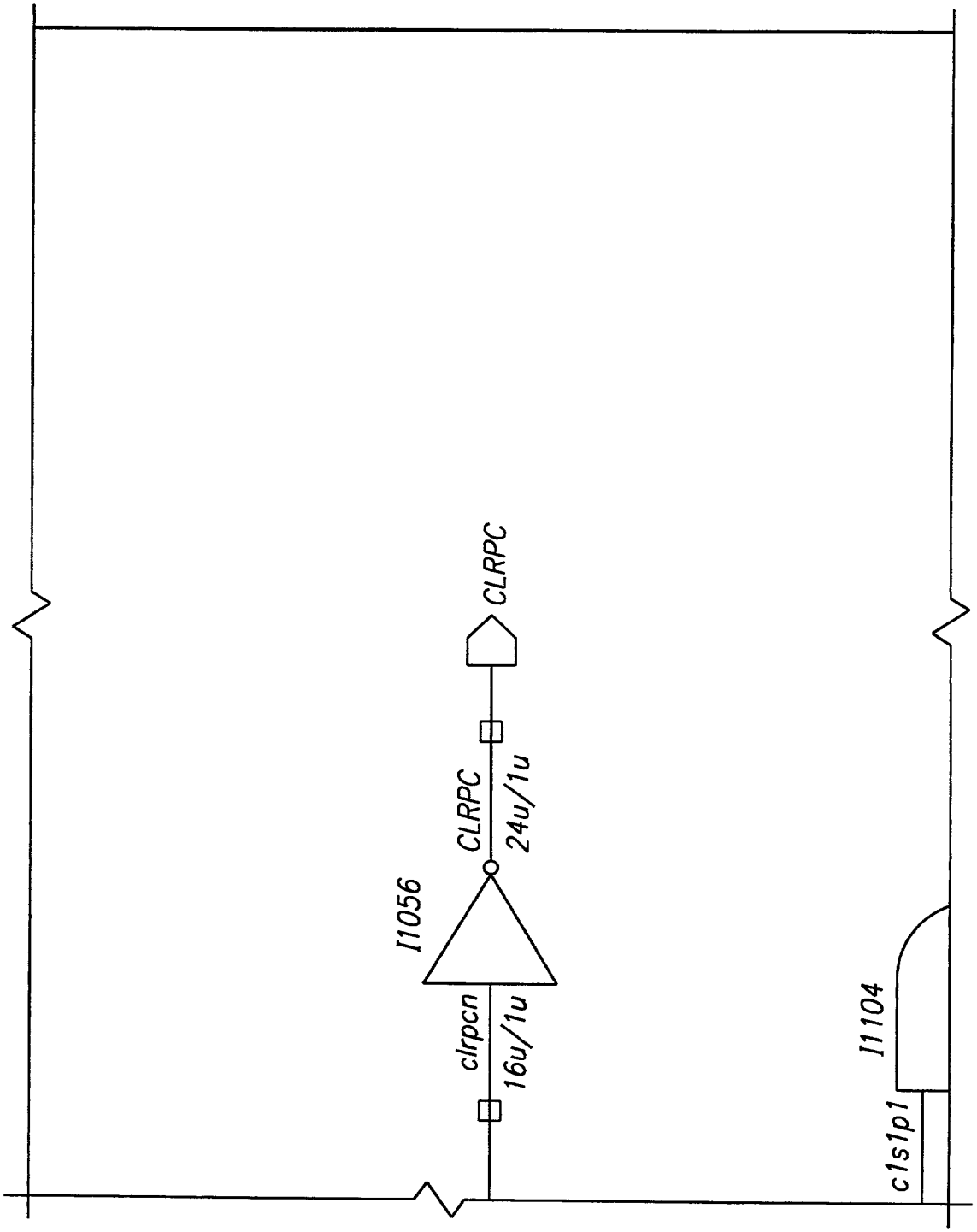


FIG 1.060218

Actelion Exhibit 2059

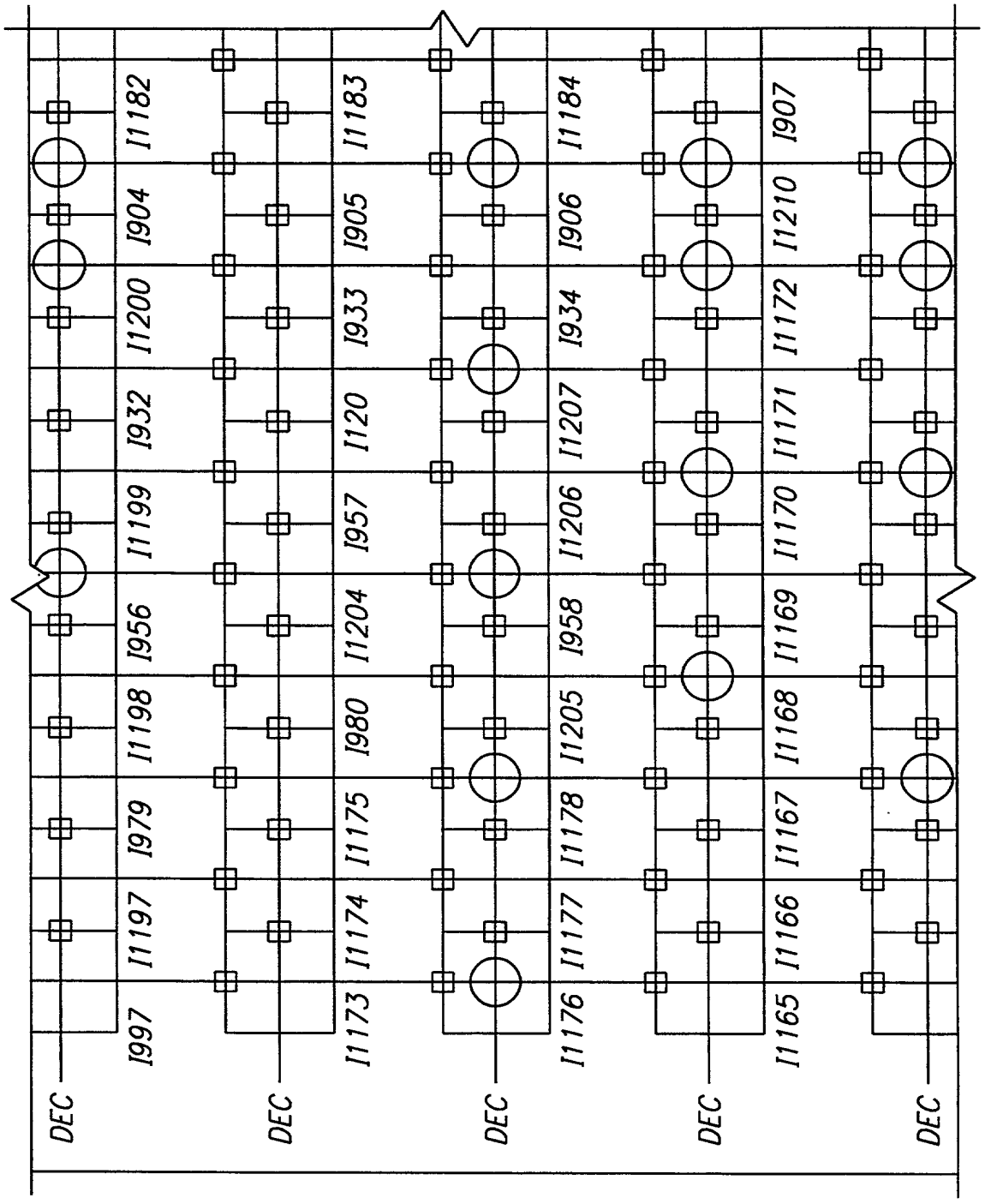

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I1105
nand3
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12u/1u
P1
S1
C1
24u/1u

Фиг. 1.0506



Фиг. 11.0600.2

TC1-5501-290228-04



Фиг. 1

Подписано и размещено

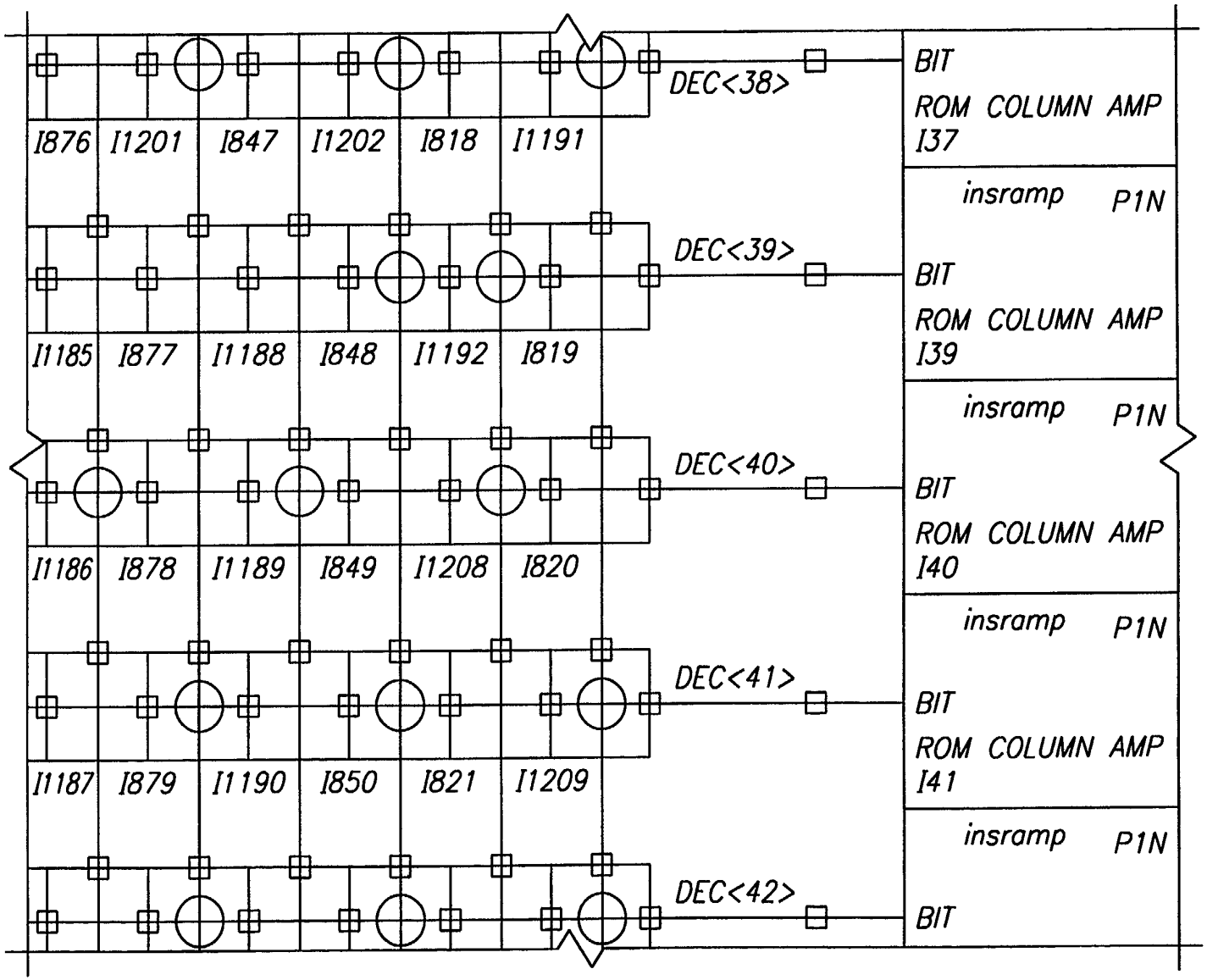
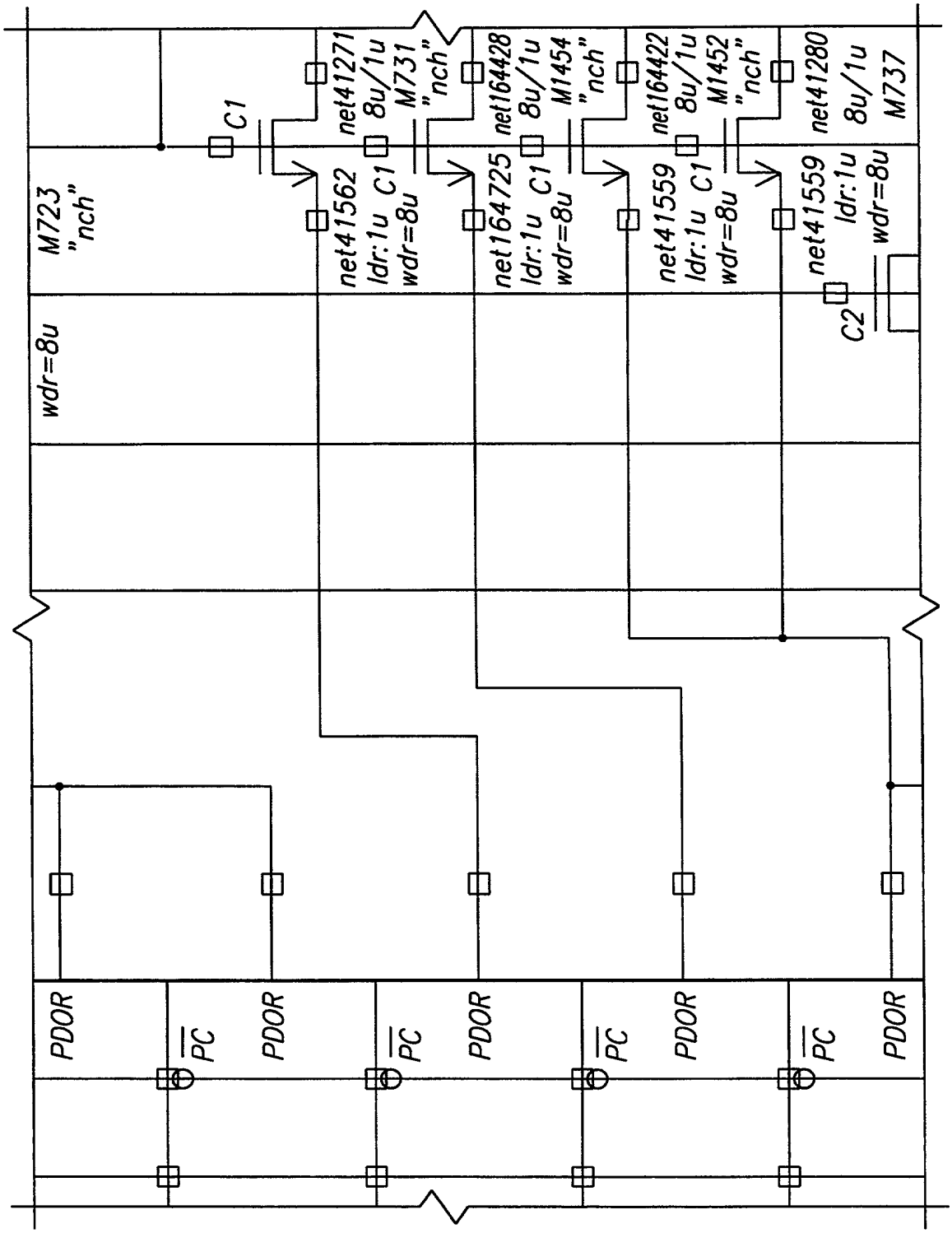
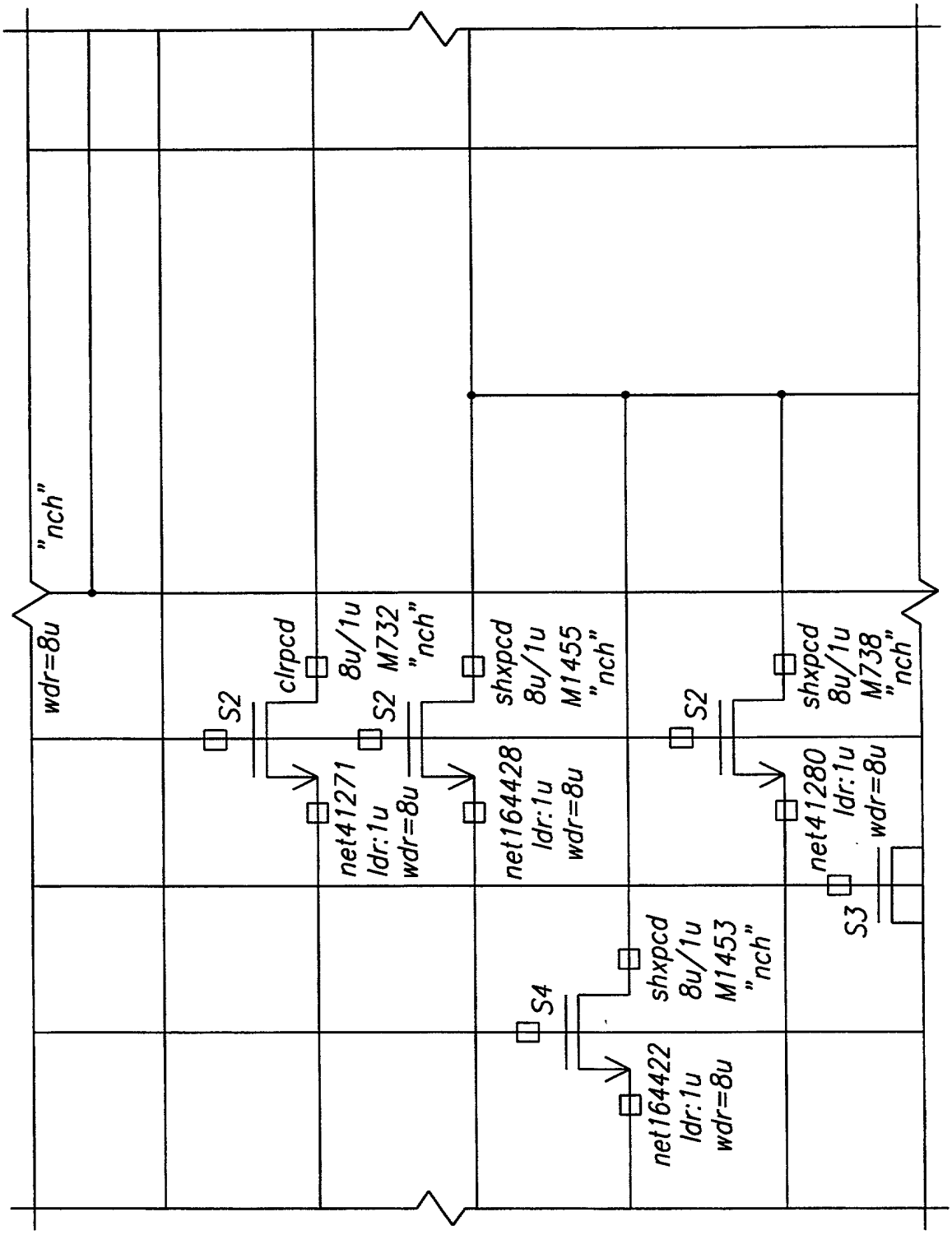

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I849
I1208
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I879
I1190
I850
I821
I1209
BIT
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insramp
P1N
BIT
ROM COLUMN AMP
I39
insramp
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BIT
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BIT

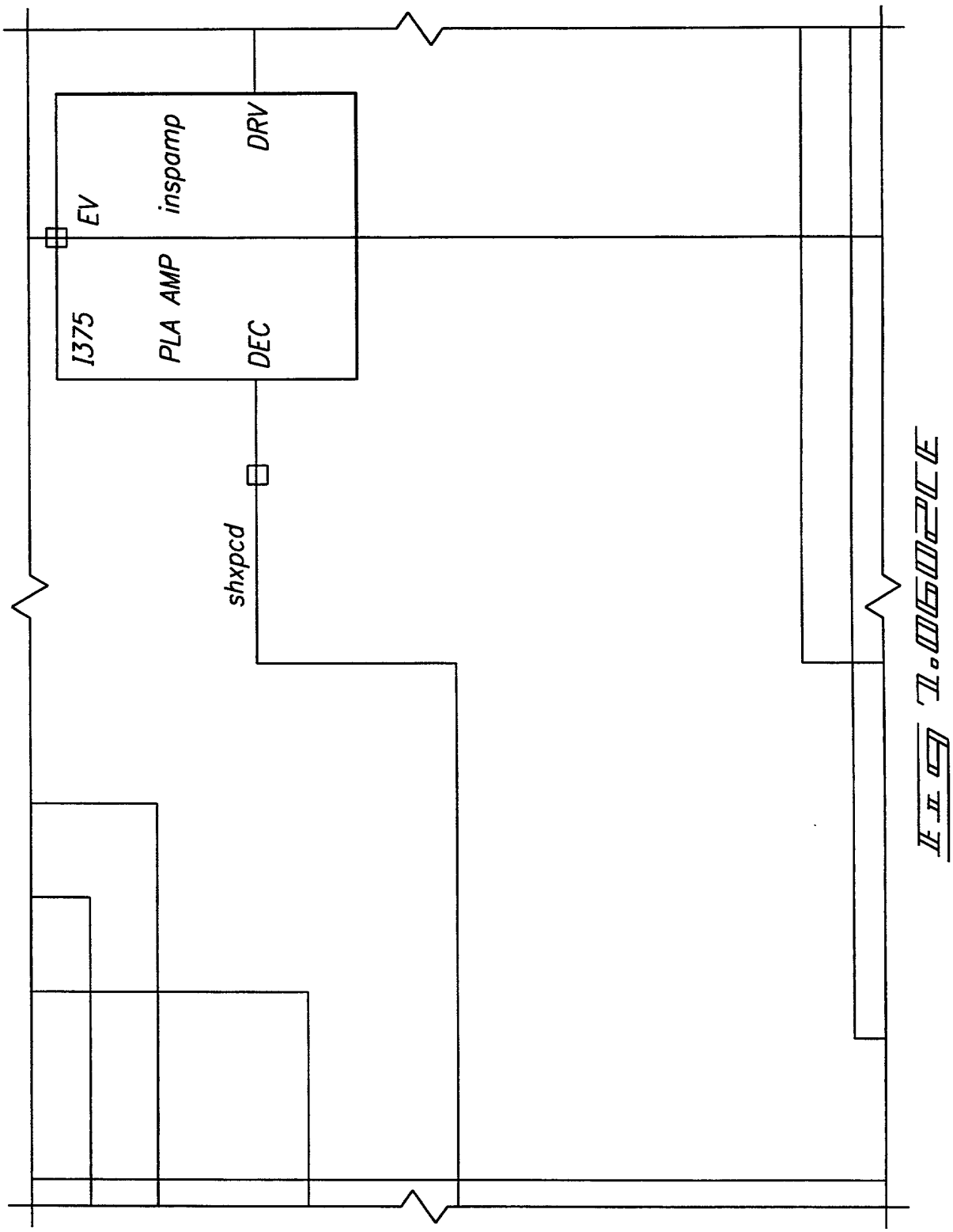
Fig 1.0600CB


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ldr:1u C1
wdr=8u
net41271
8u/1u
M731
"nch"
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ldr:1u C1
wdr=8u
net164428
8u/1u
M1454
"nch"
net41559
ldr:1u C1
wdr=8u
net164422
8u/1u
M1452
"nch"
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net41559
ldr:1u
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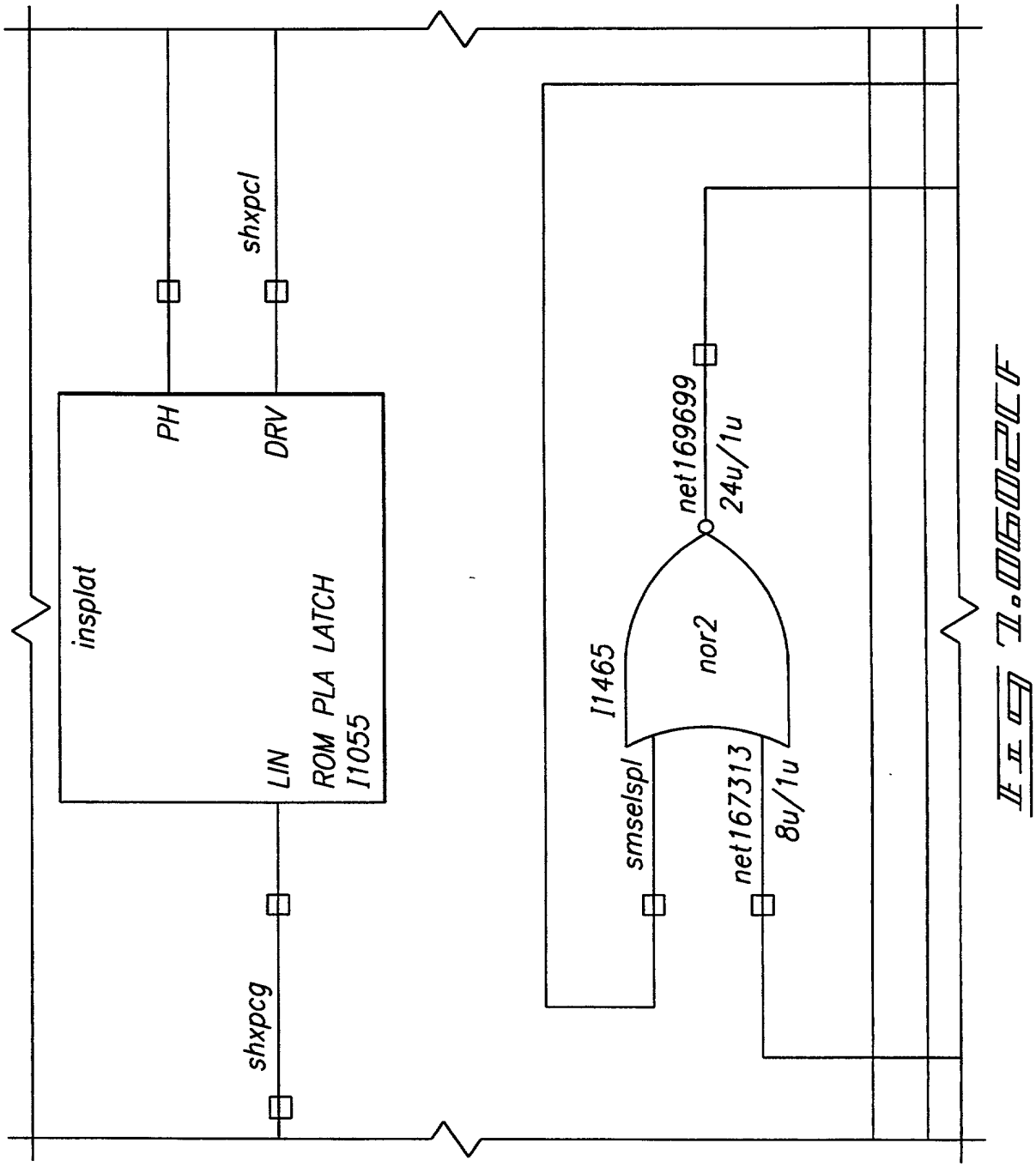
Фиг. 1.0502.1

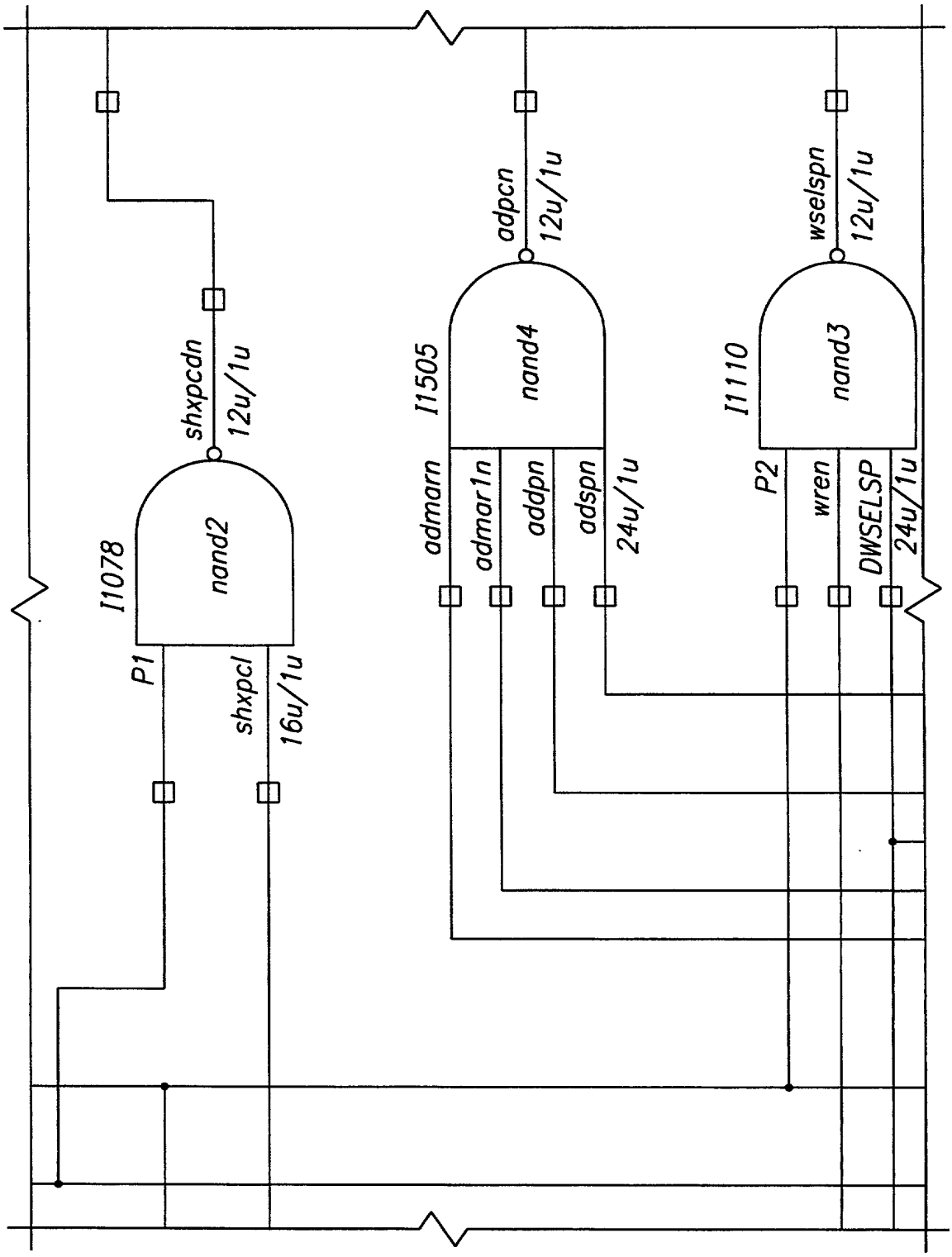


Фиг. 1.0500210



Patent application publication


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24u/1u
I1465
nor2
smselspl
net167313
8u/1u


I1078
nand2
P1
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I1505
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Фиг. 1.0090

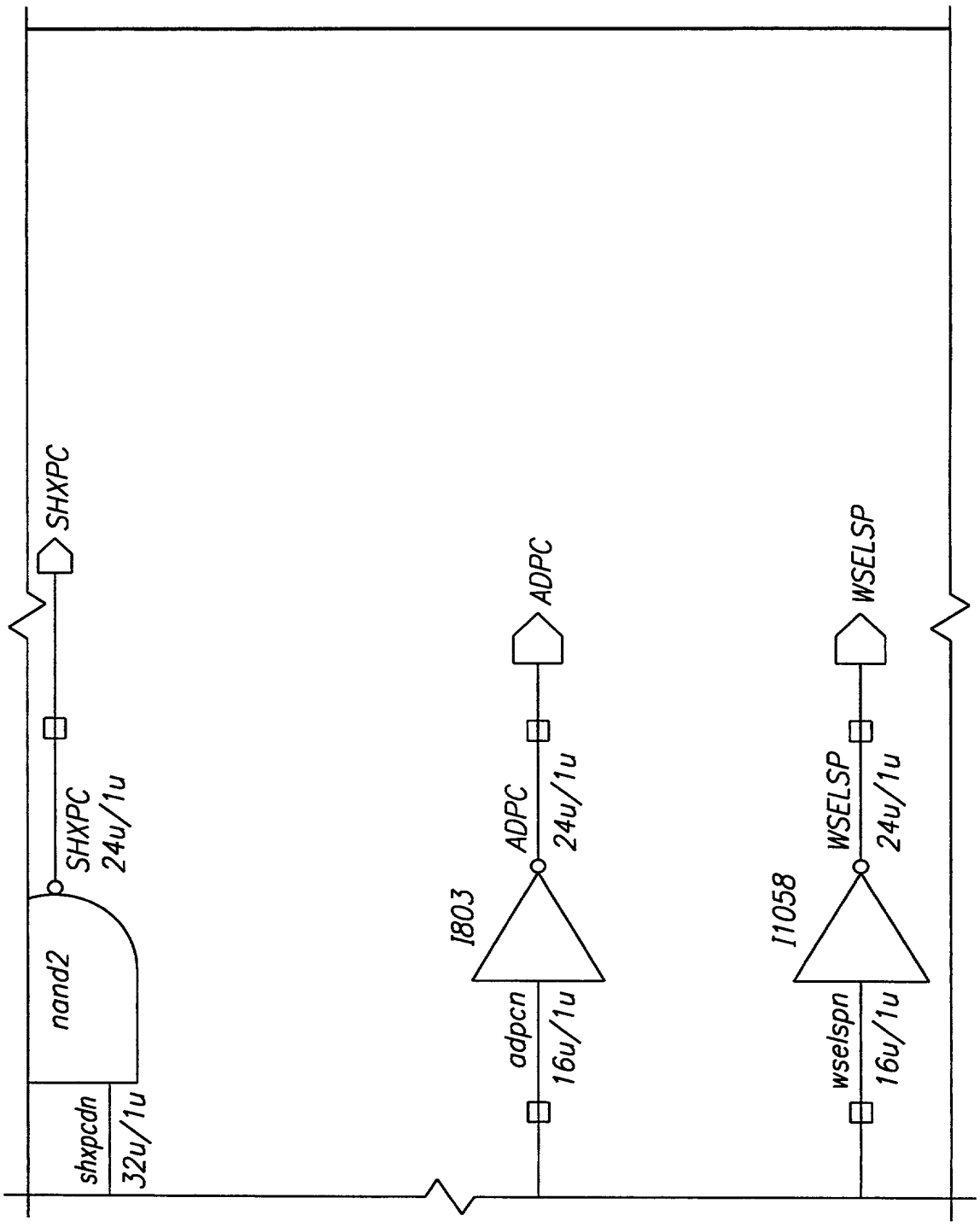


Fig 11.0050204

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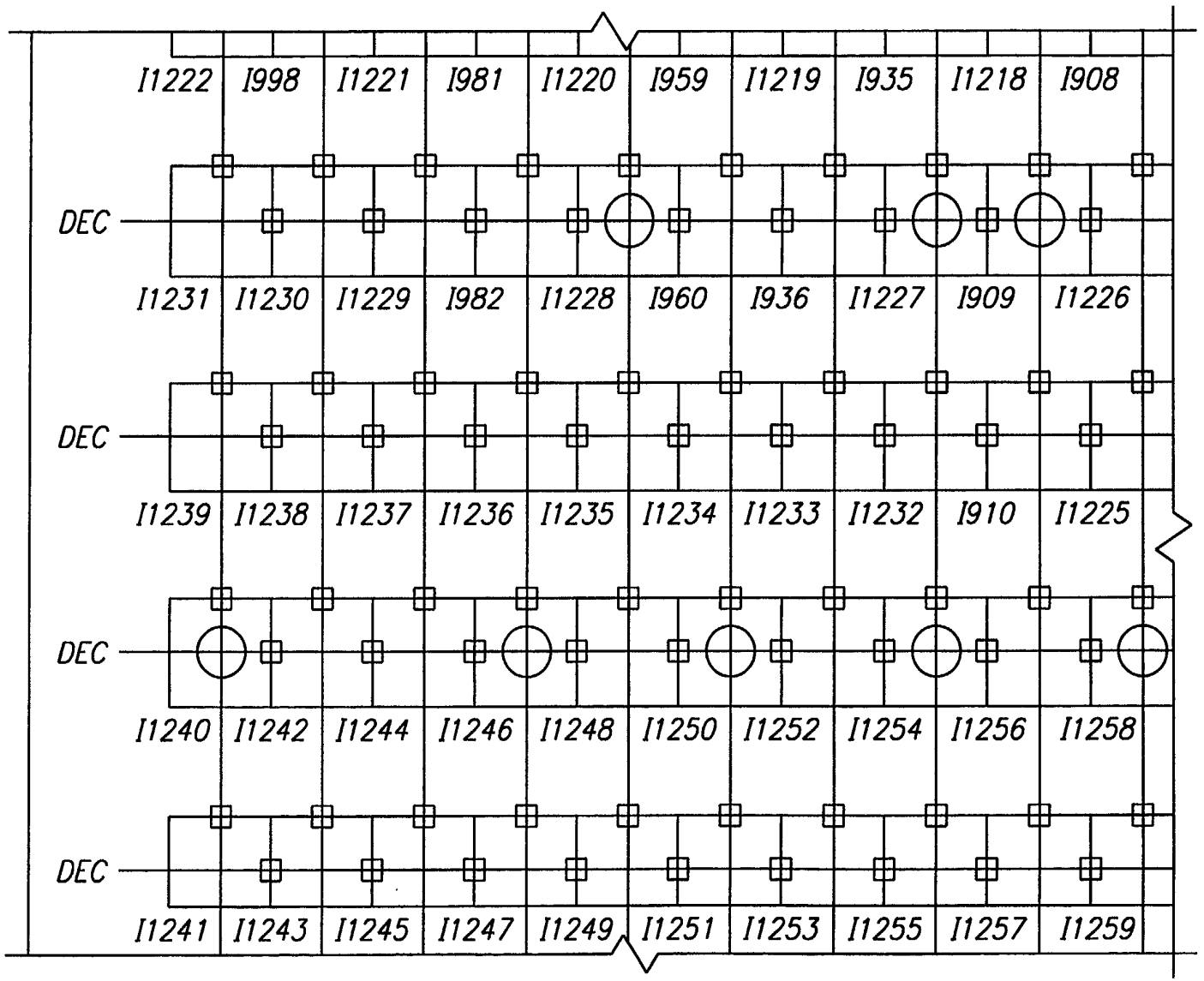


Fig 1.0602DA

588/3273

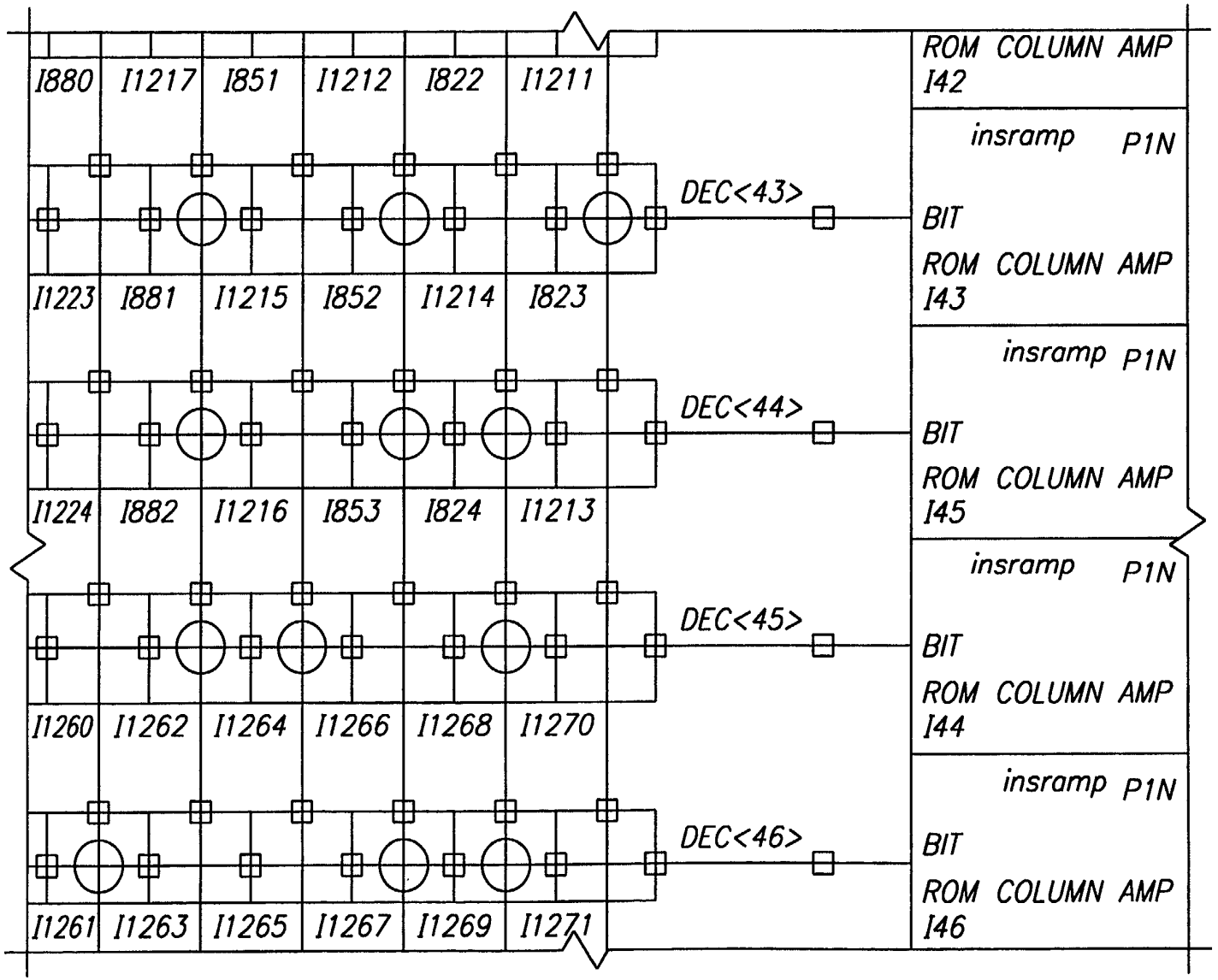
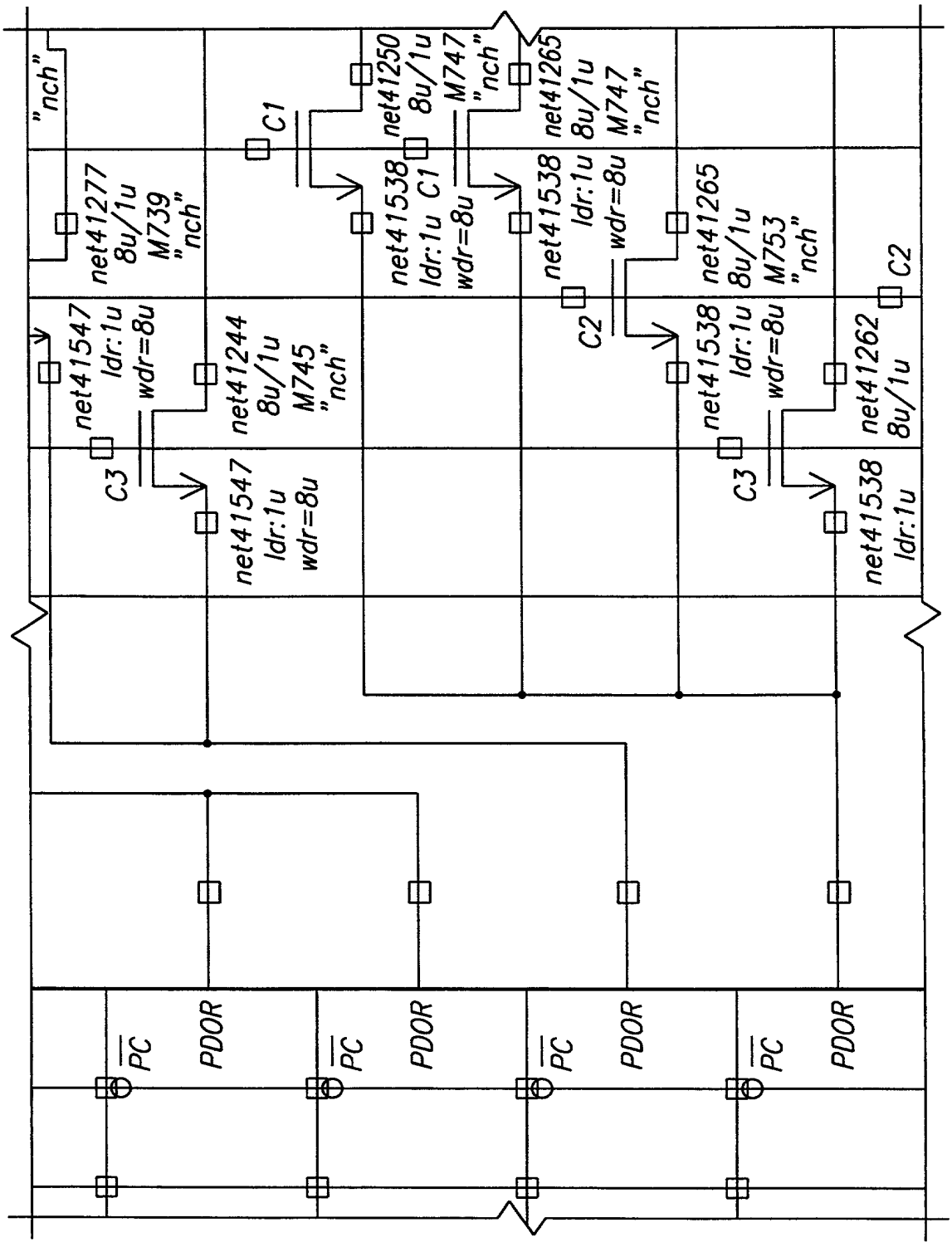
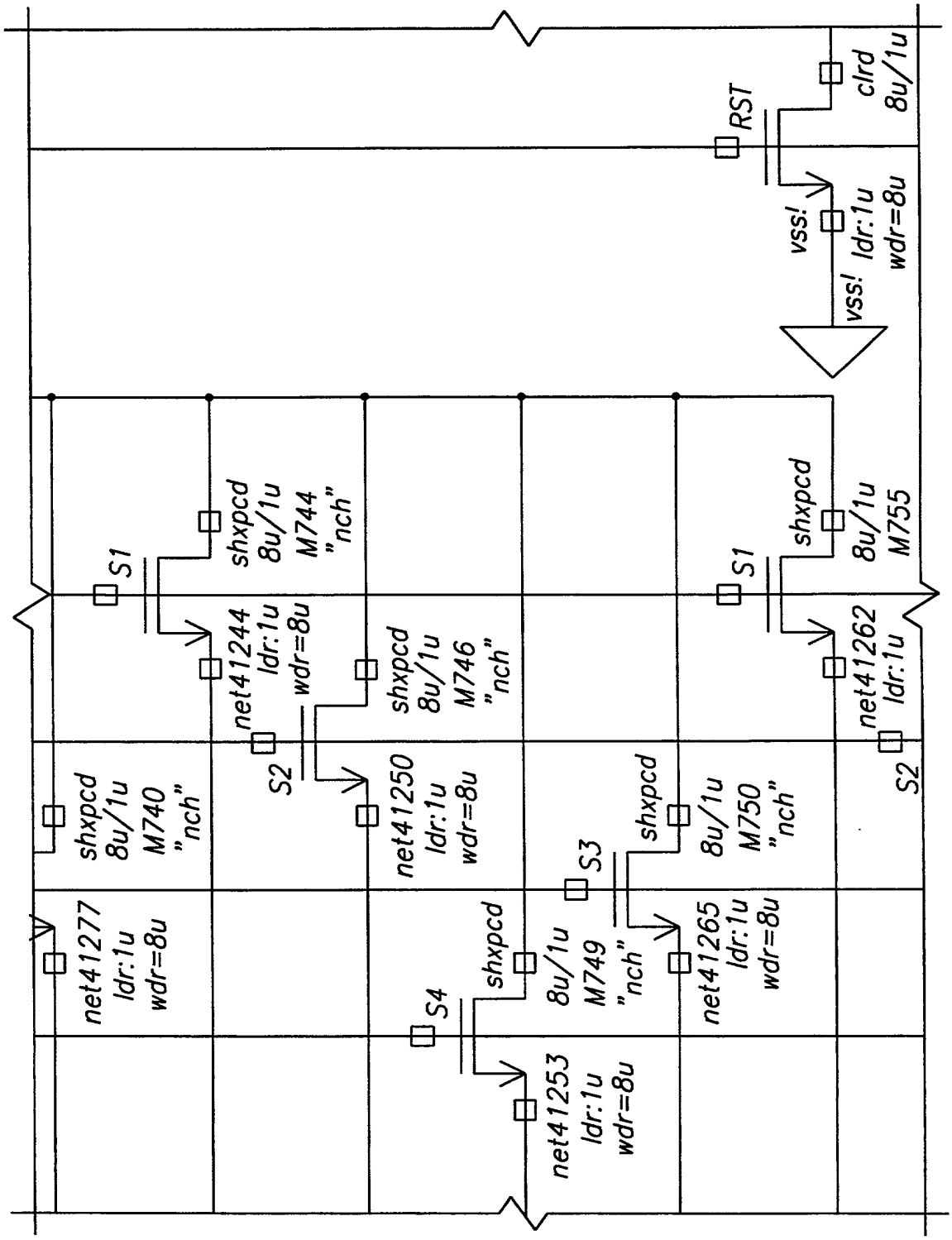

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Fig 1.0602DB


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M747
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8u/1u
M747
"nch"
net41547
ldr:1u
wdr=8u
C3
net41244
8u/1u
M745
"nch"
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wdr=8u
C2
net41538
ldr:1u
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8u/1u
M753
"nch"
net41547
ldr:1u
wdr=8u
net41538
ldr:1u
C3
net41262
8u/1u
C2
net41538
ldr:1u
PC
PDOR

Фиг 1.0500


net41277 ldr:1u wdr=8u
shxpcd 8u/1u M740 "nch"
net41244 ldr:1u wdr=8u
shxpcd 8u/1u M744 "nch"
net41250 ldr:1u wdr=8u
shxpcd 8u/1u M746 "nch"
net41253 ldr:1u wdr=8u
shxpcd 8u/1u M749 "nch"
net41265 ldr:1u wdr=8u
shxpcd 8u/1u M750 "nch"
net41262 ldr:1u
shxpcd 8u/1u M755
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S3
S4
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clrd 8u/1u
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vss!

Фиг. 7.005200

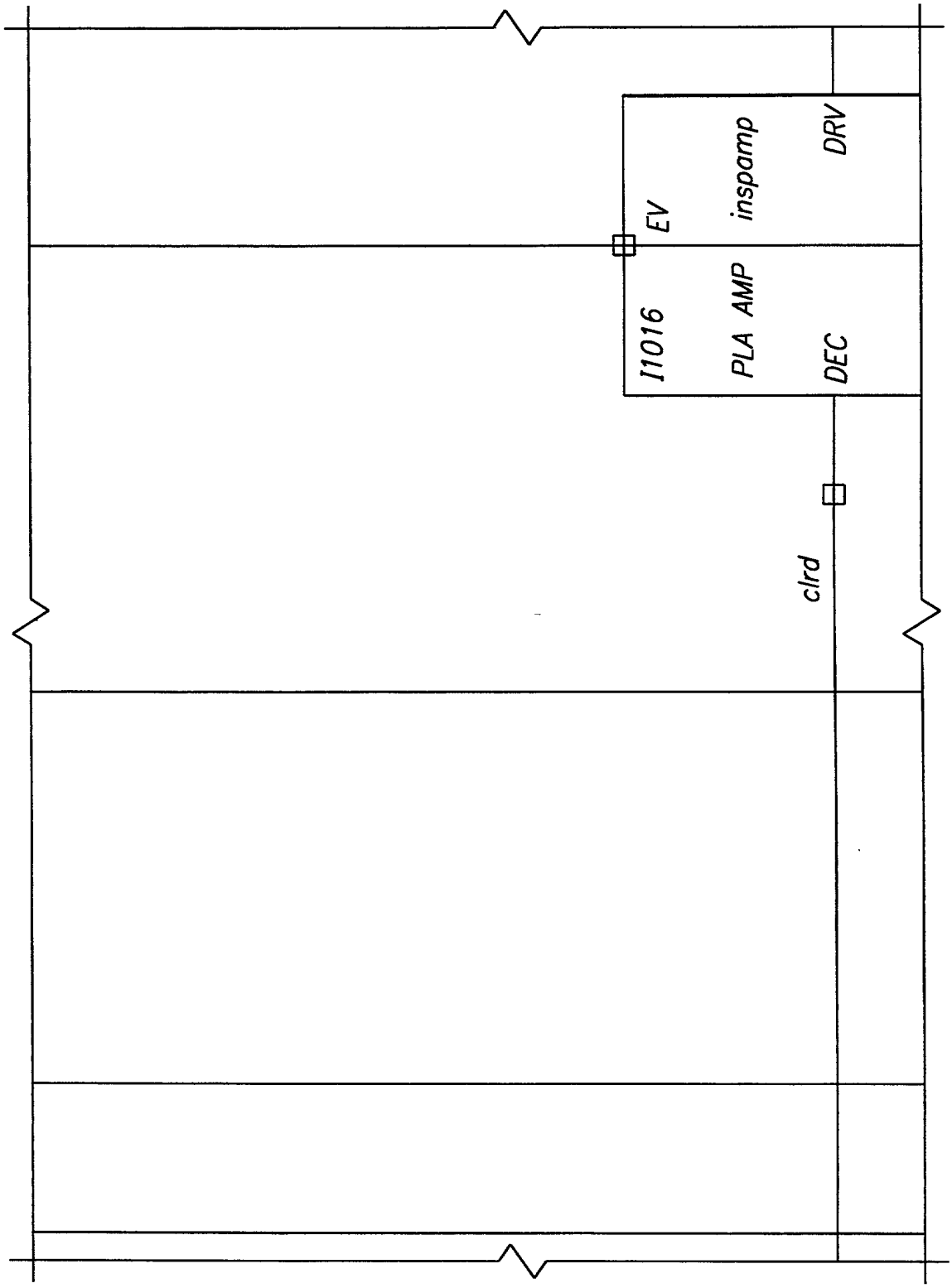


FIG 1.0600E

EP 1 560 250 A2

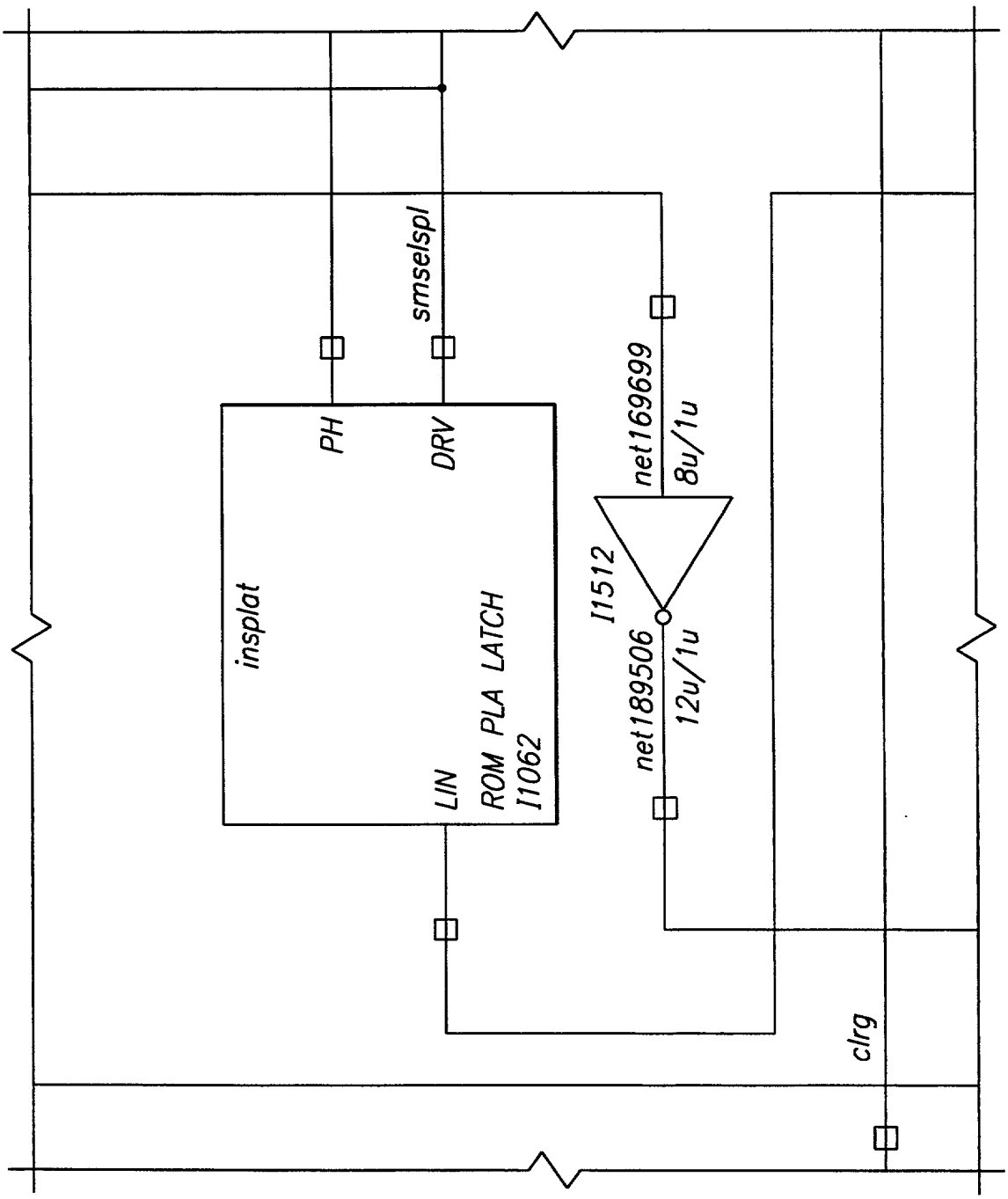
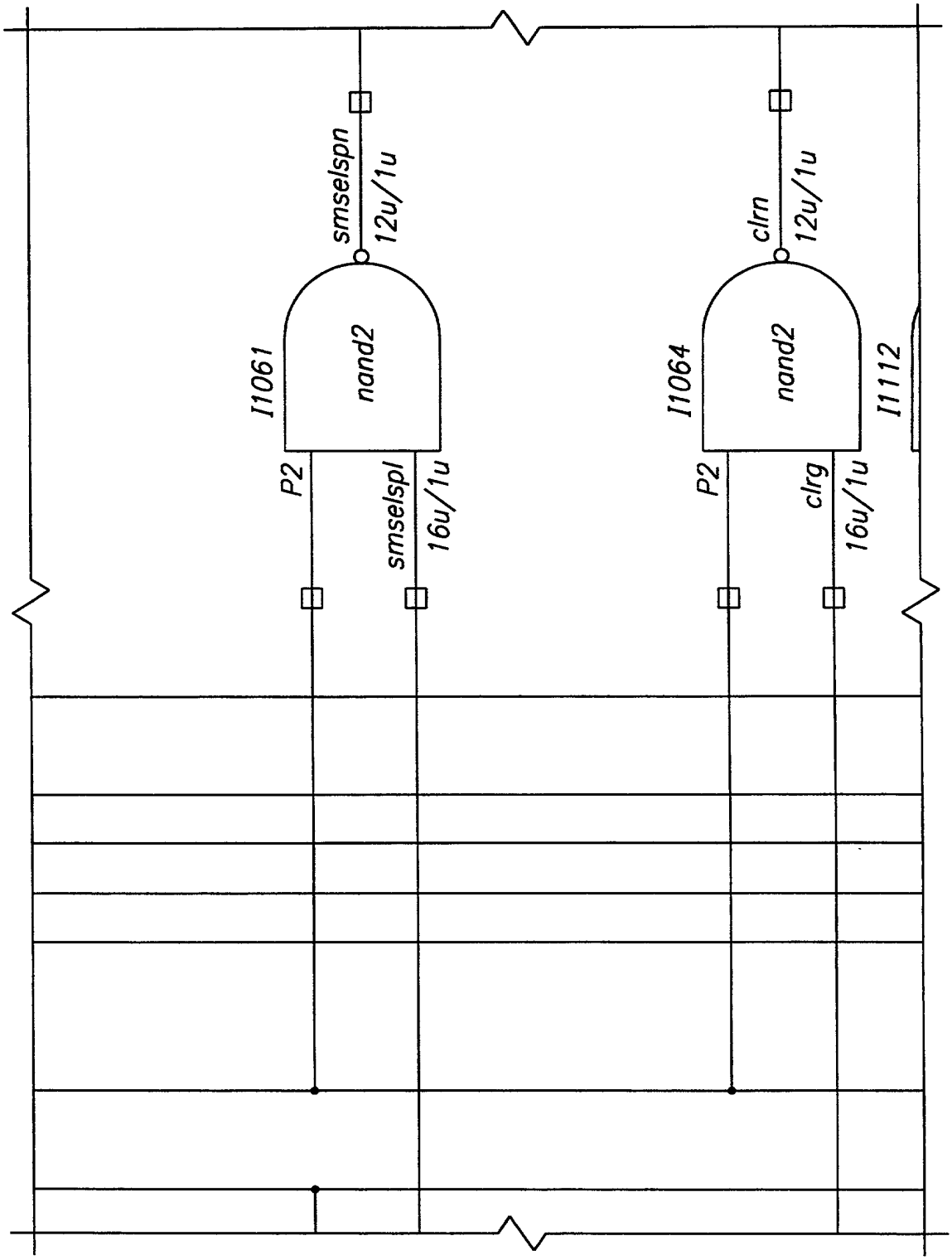


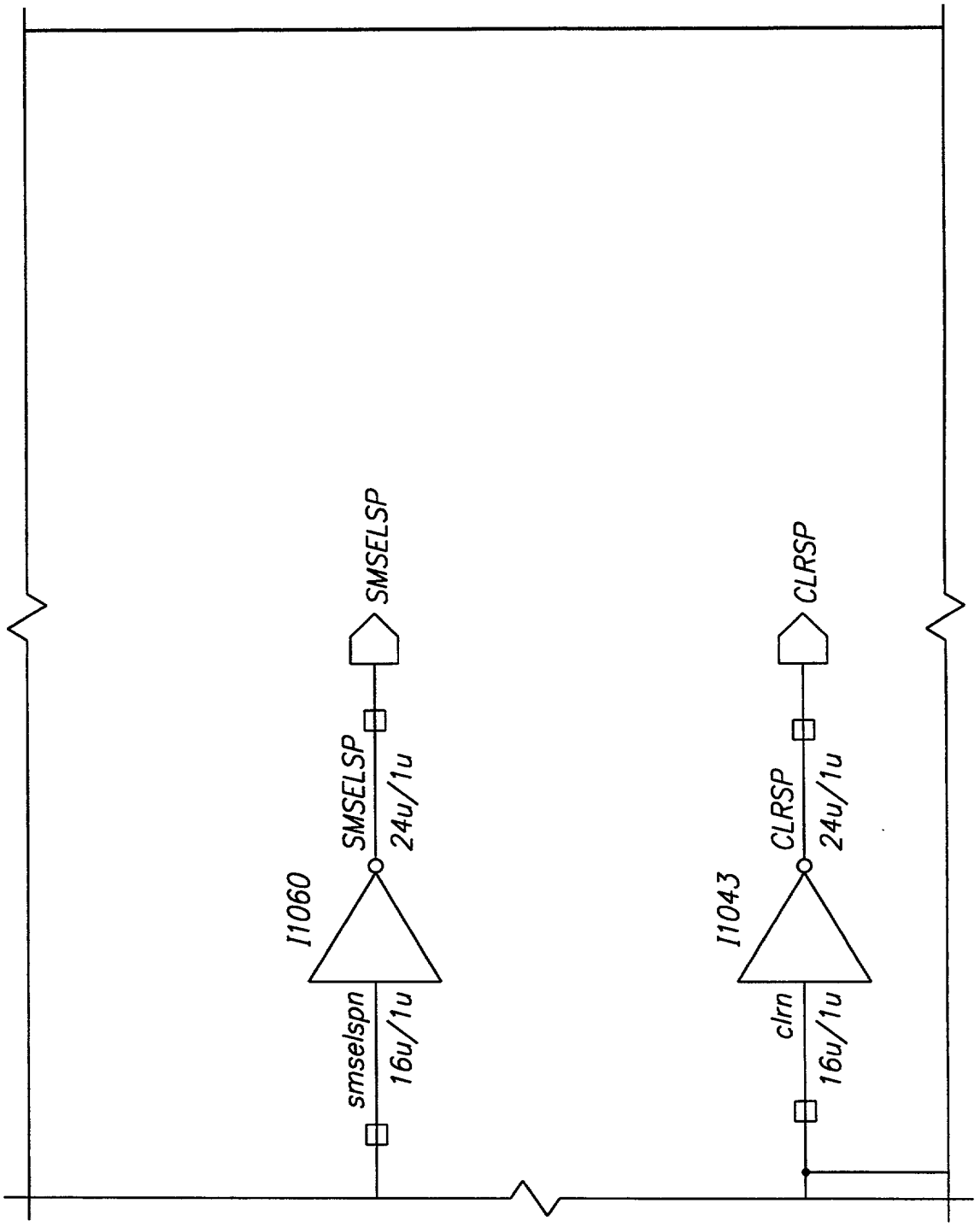
FIG 1.0502DF

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Фиг 1.060900

1.06.05.2.05.2.95.0



Фиг 1.0500.2004

FOR EPO EXAMINATION

Patent application

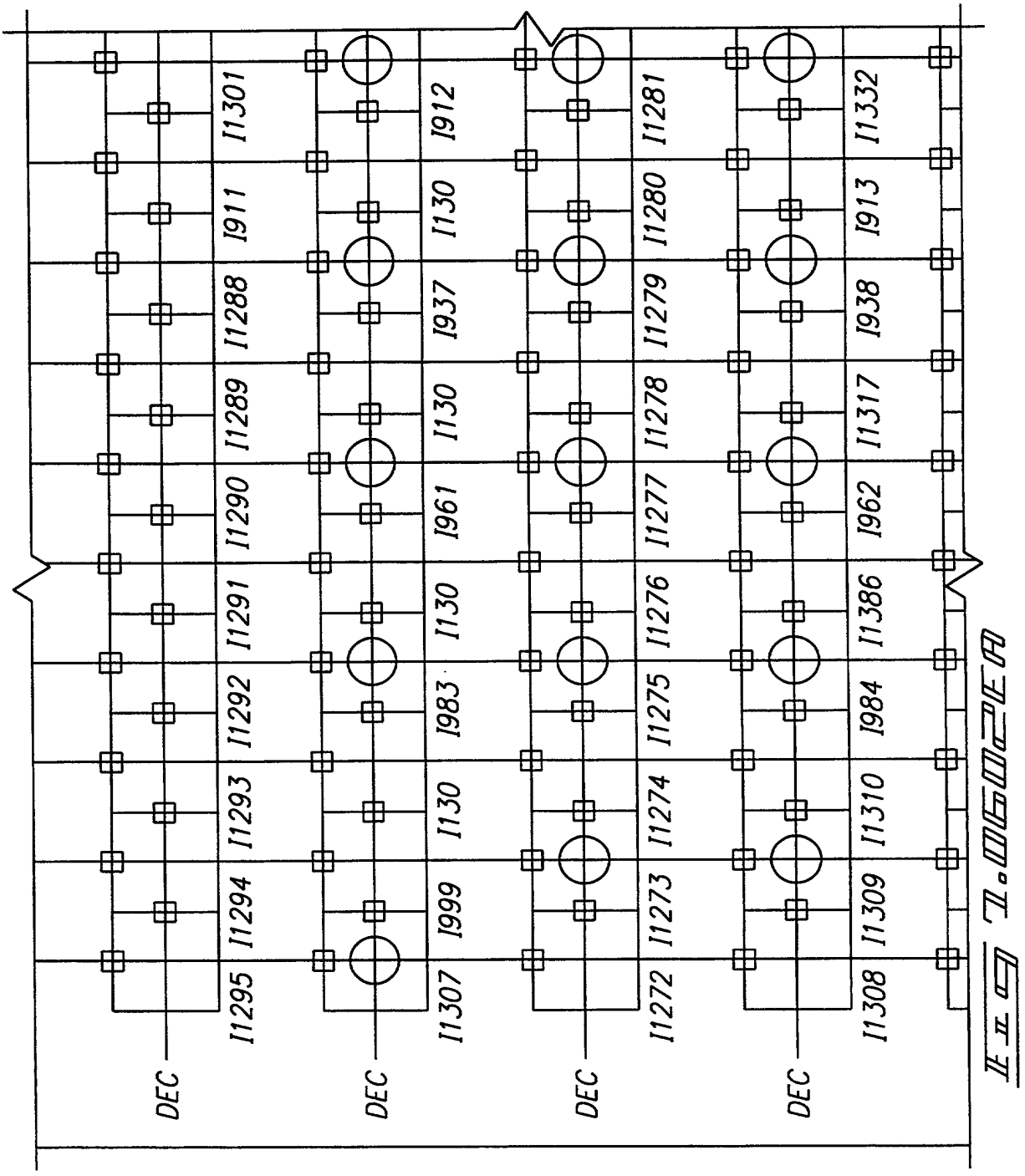
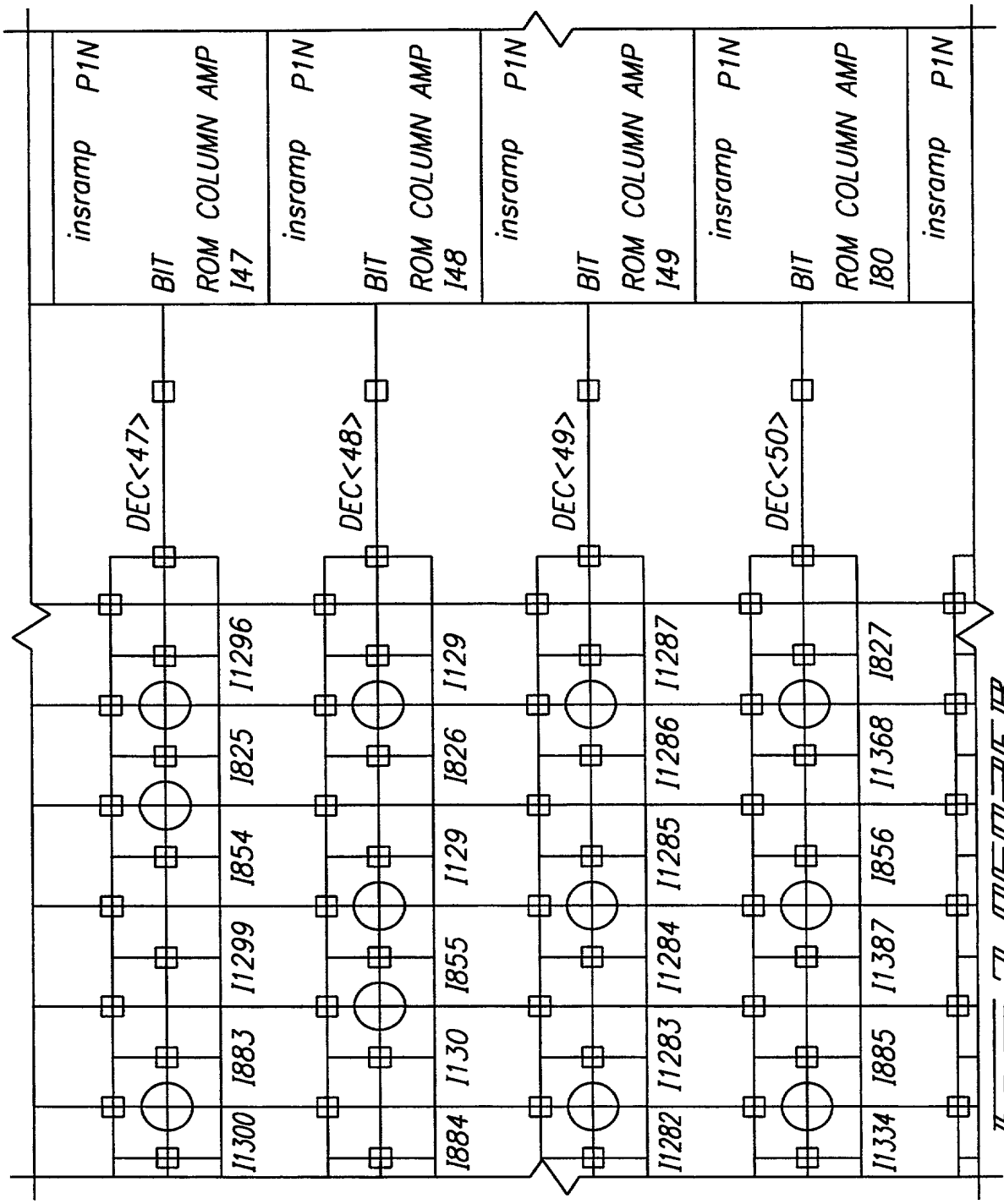
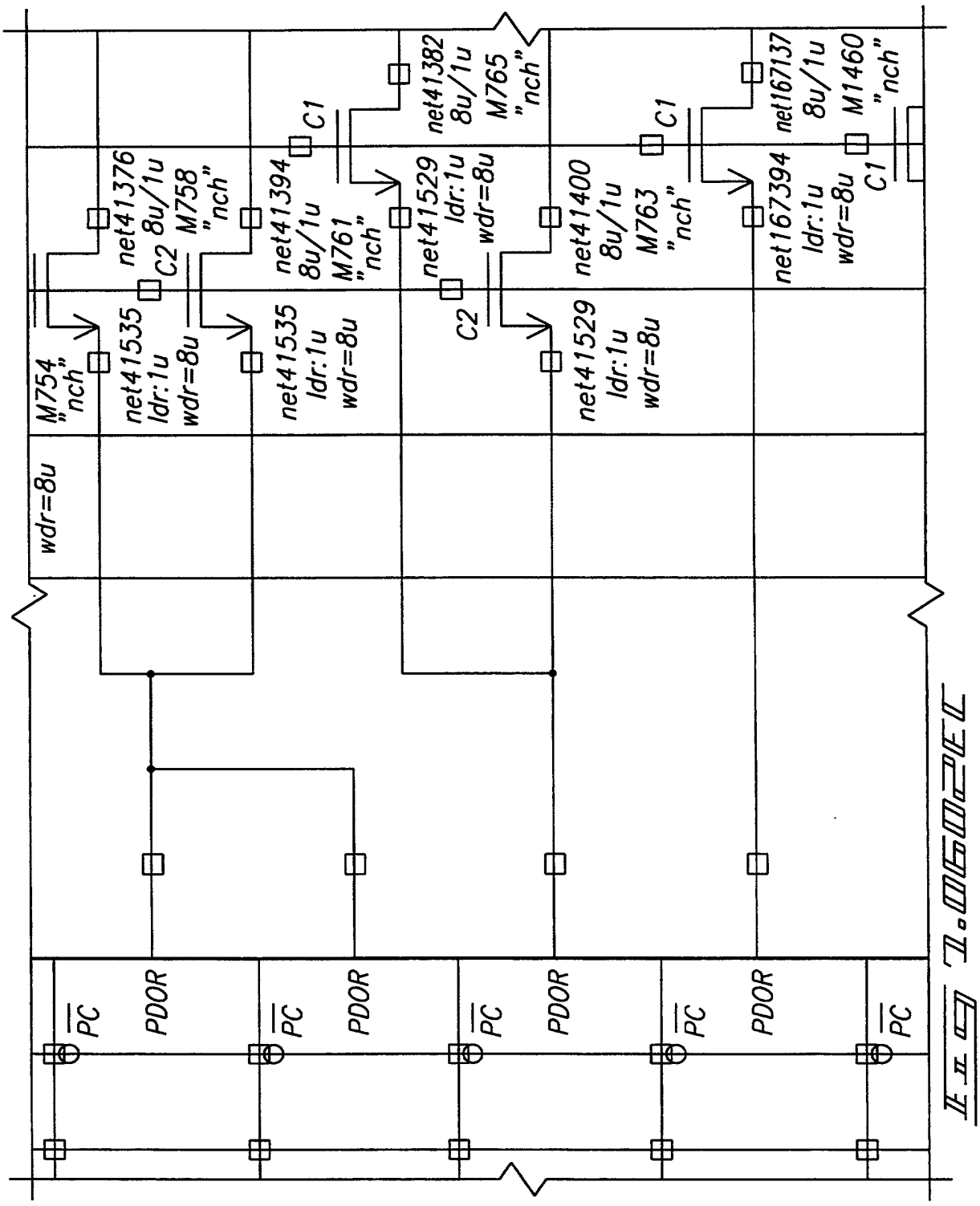
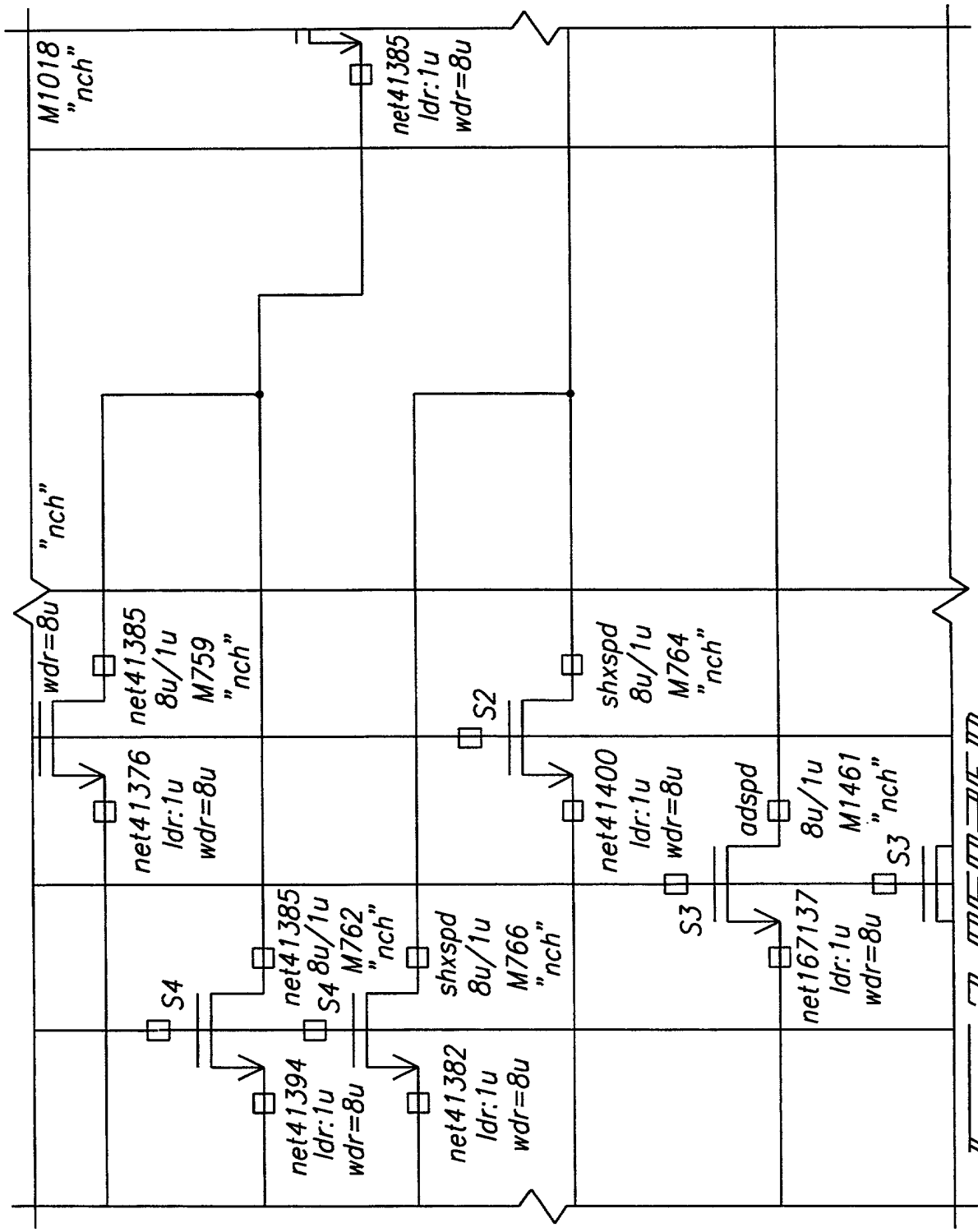


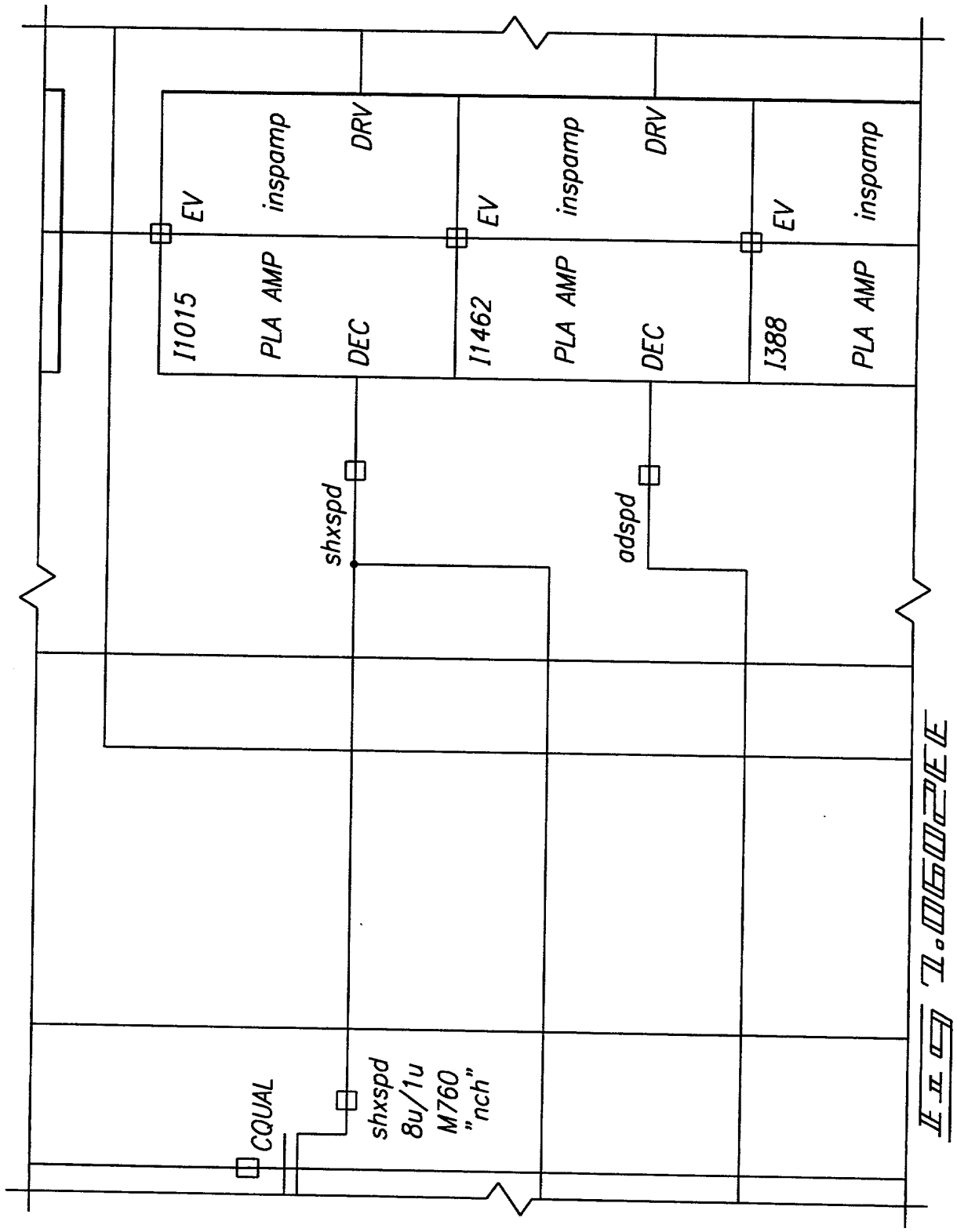
Fig. 1


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insramp P1N
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insramp P1N
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I884 I1130 I855 I1129 I826 I1129
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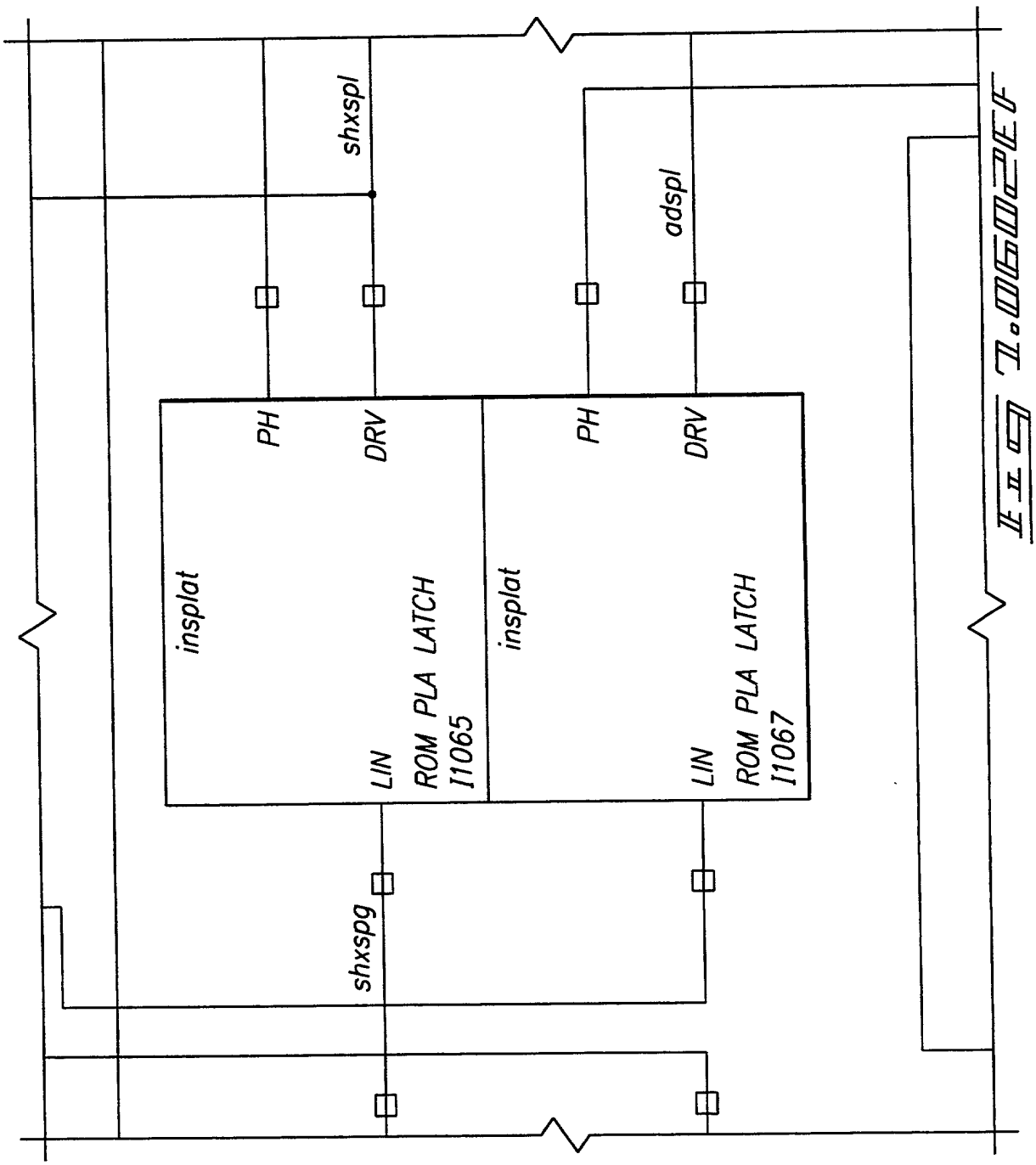

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net41376 8u/1u
C2
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net41394 8u/1u
M761 "nch"
C1
net41382 8u/1u
M765 "nch"
C2
net41529 ldr:1u wdr=8u
net41529 ldr:1u wdr=8u
net41400 8u/1u
M763 "nch"
C1
net167394 ldr:1u wdr=8u
net167137 8u/1u
M1460 "nch"
C1
PC
PDOR
PC
PDOR
PC
PDOR
PC
PDOR
PC

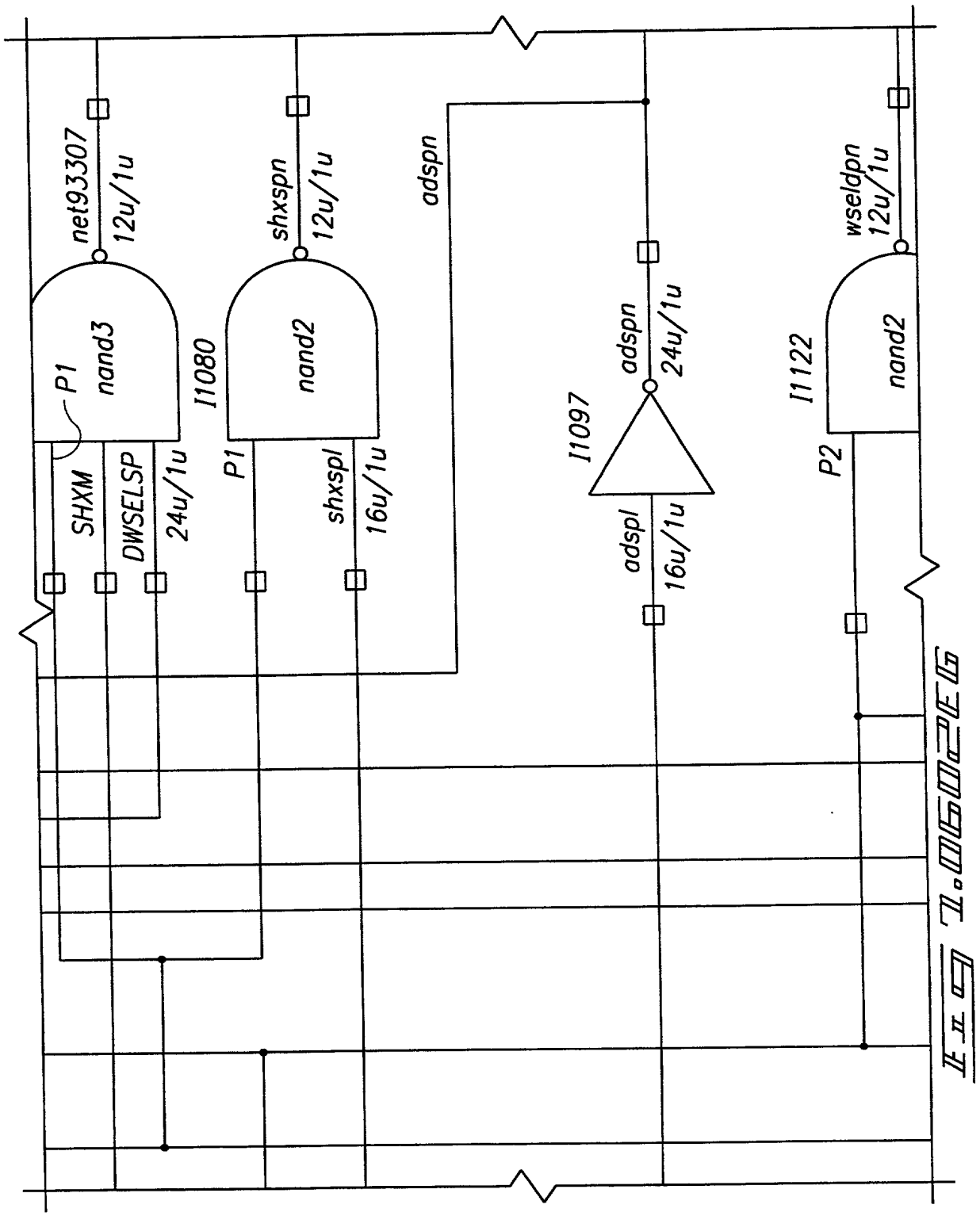
EP 1 794 790 B1



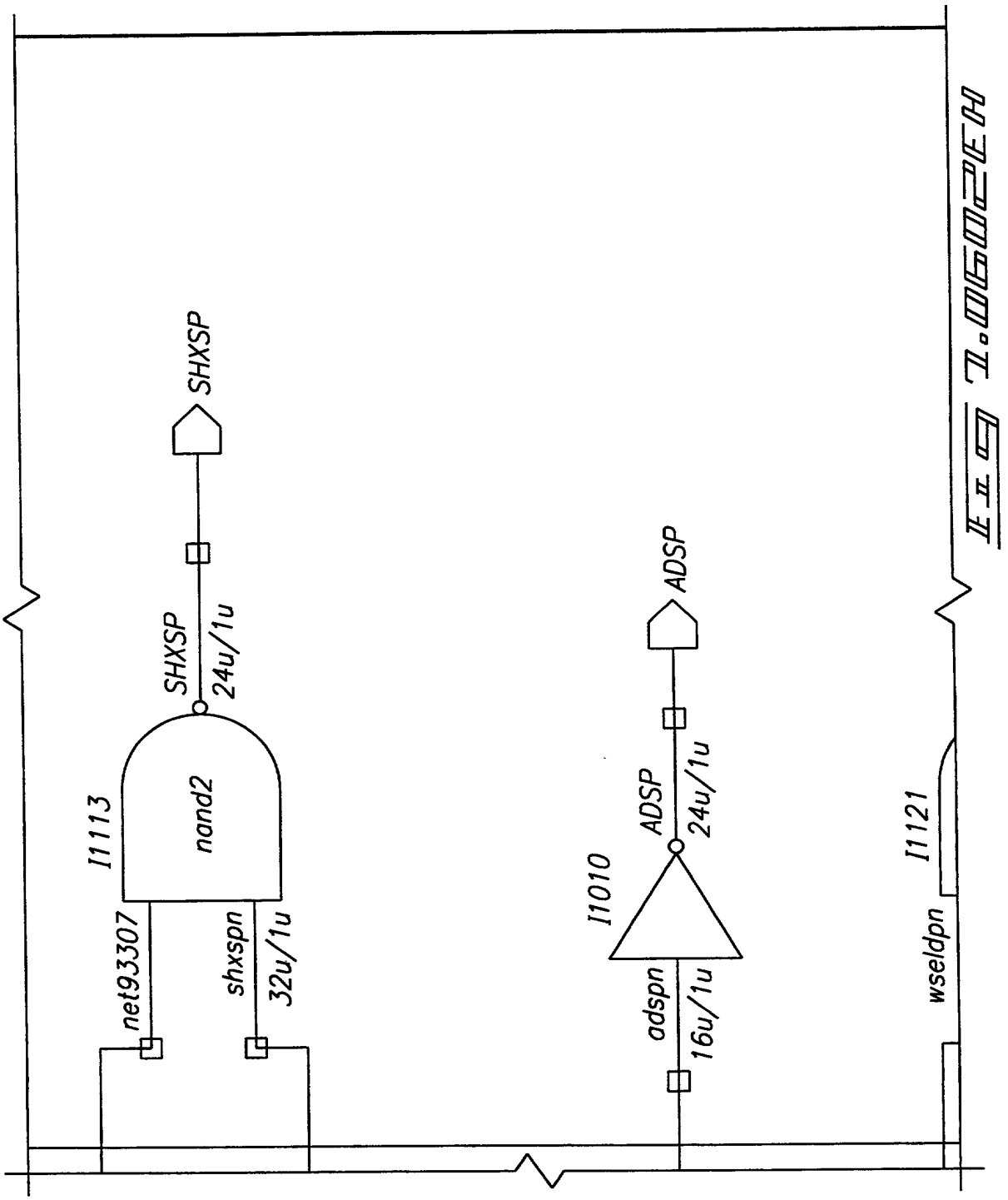


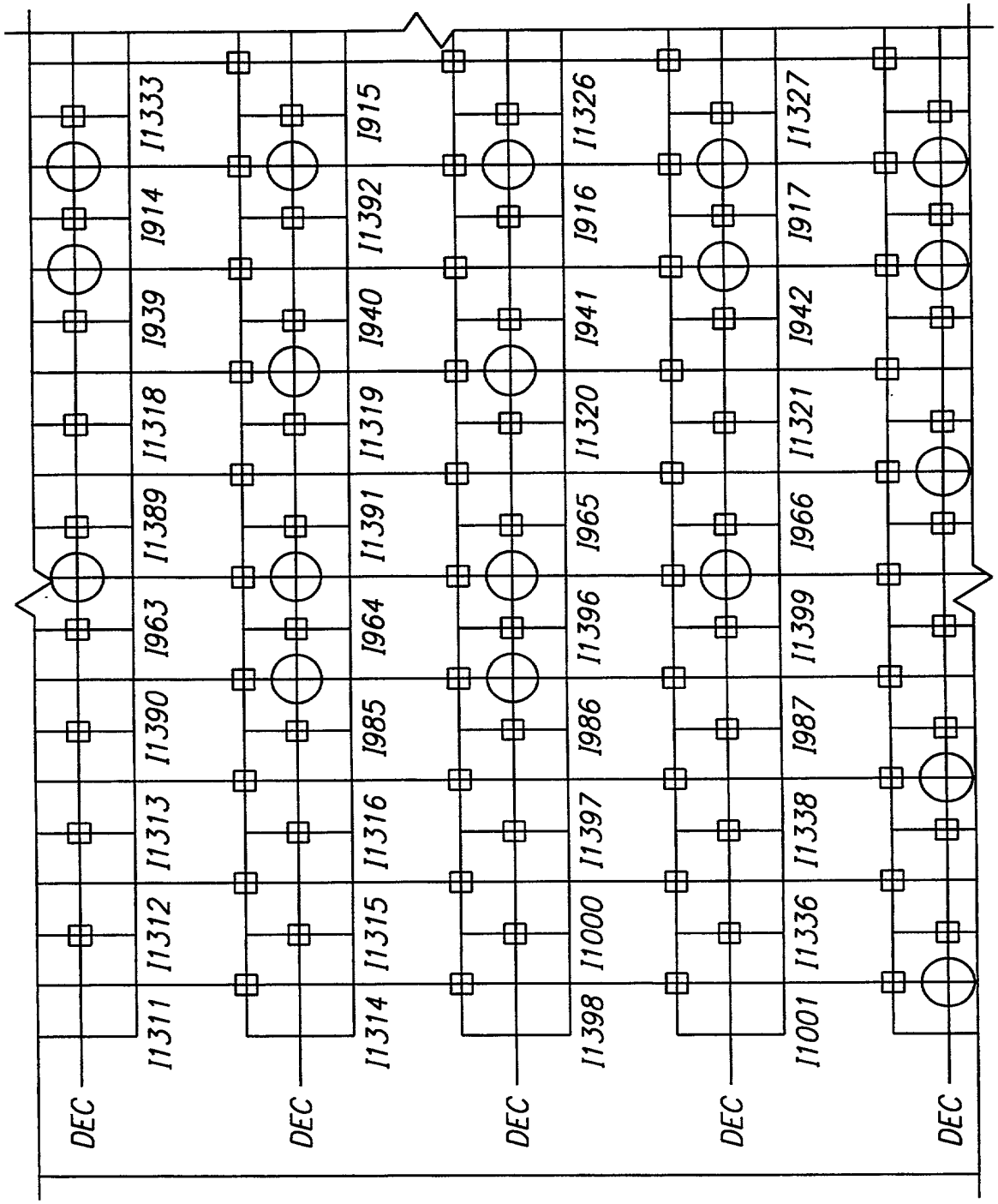
EP1150.2500.2650


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adspl
PH
DRV
PH
DRV
insplat
ROM PLA LATCH
11065
LIN
insplat
ROM PLA LATCH
11067
LIN
shxspg



Portland Semiconductor


SHXSP
SHXSP
24u/1u
I1113
nand2
net93307
shxspn
32u/1u
ADSP
ADSP
24u/1u
I1010
adspn
16u/1u
I1121
wseldpn


DEC
I1311
I1312
I1313
I1390
I963
I1389
I1318
I939
I914
I1333
DEC
I1314
I1315
I1316
I985
I964
I1391
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DEC
I1398
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I1397
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DEC
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DEC

Фиг. 1.0500.2A

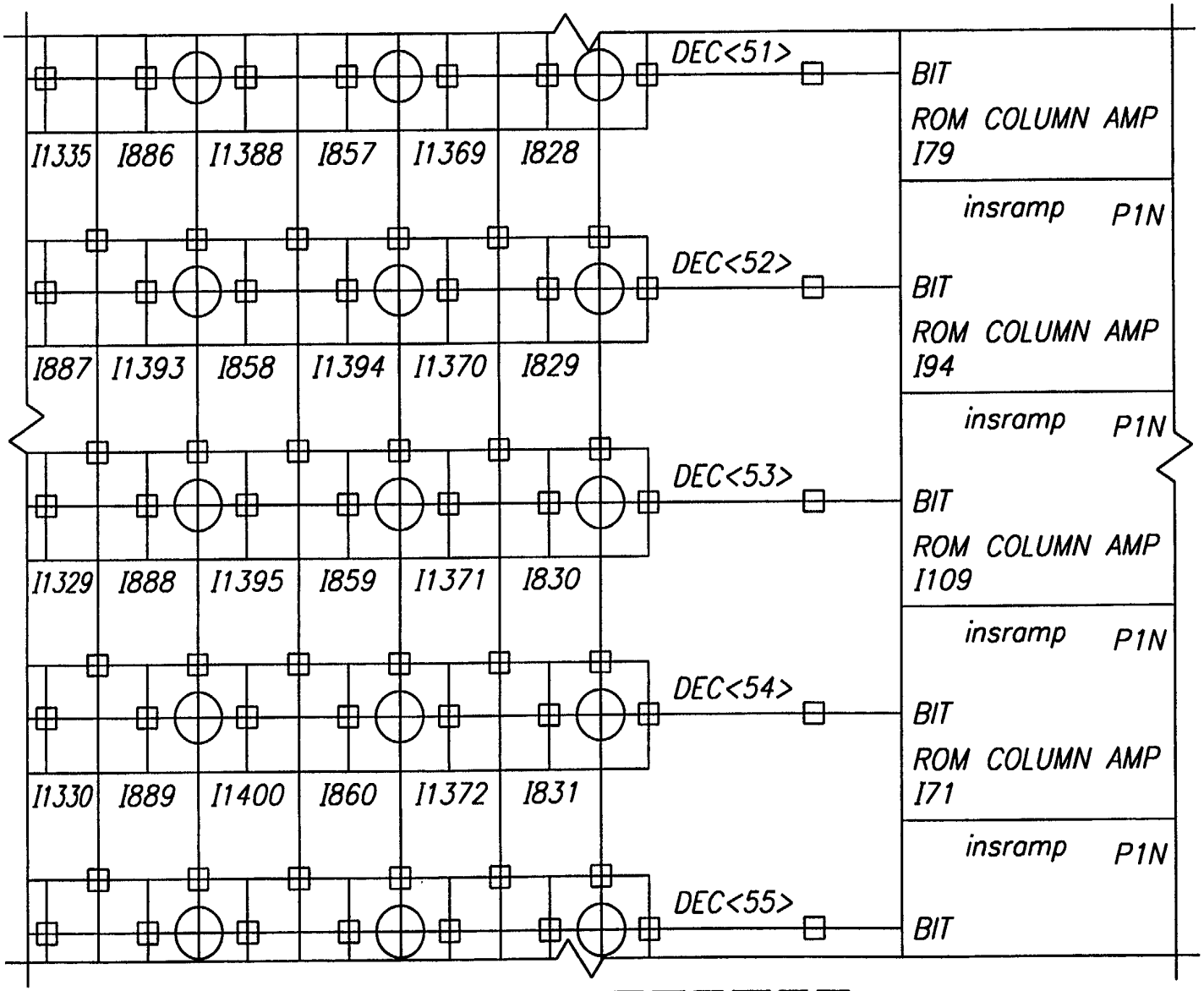
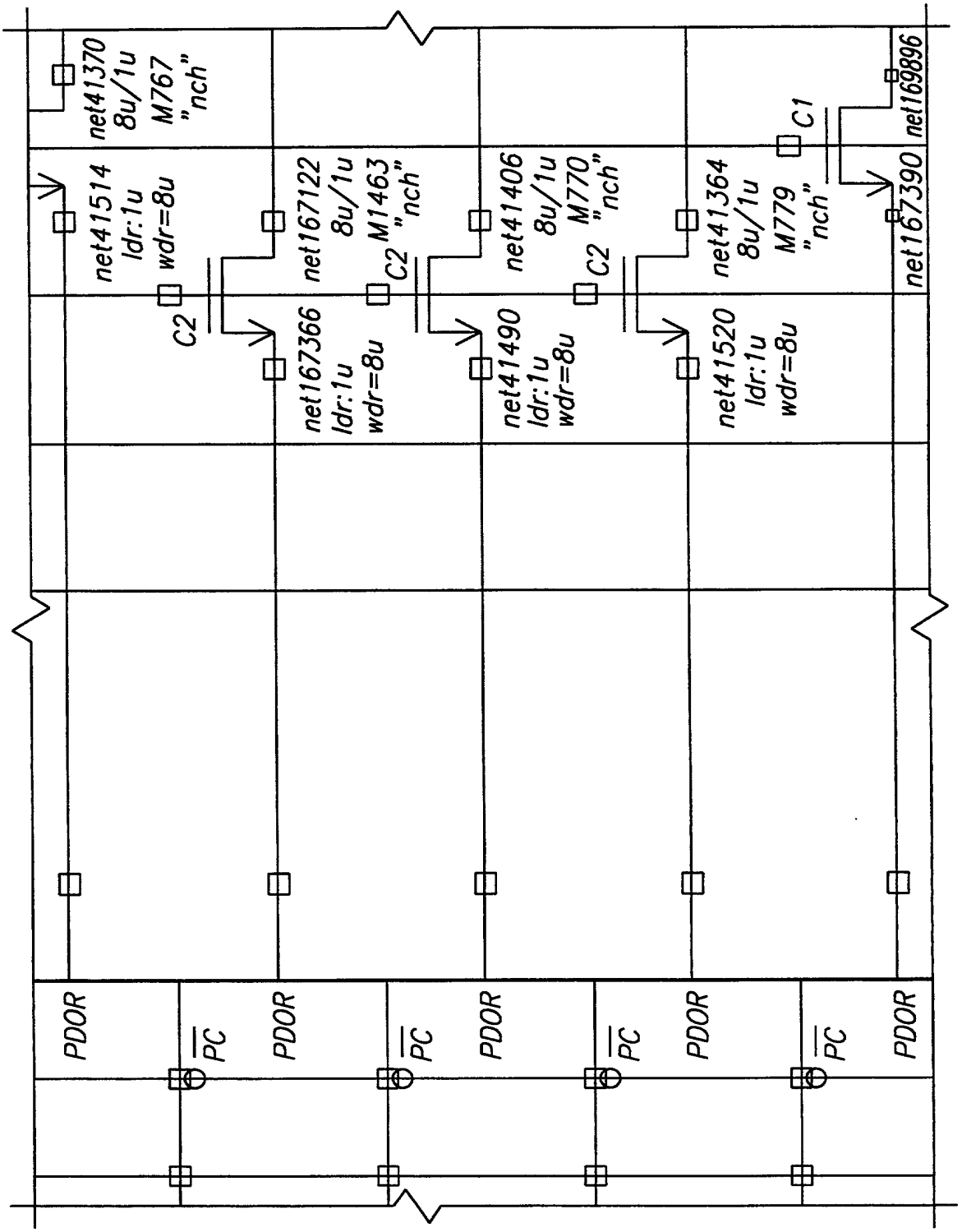

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I829
I1329
I888
I1395
I859
I1371
I830
I1330
I889
I1400
I860
I1372
I831
BIT
ROM COLUMN AMP
I79
insramp
P1N
BIT
ROM COLUMN AMP
I94
insramp
P1N
BIT
ROM COLUMN AMP
I109
insramp
P1N
BIT
ROM COLUMN AMP
I71
insramp
P1N
BIT

Fig 1.0602FB


net41370
8u/1u
M767
"nch"
net41514
ldr:1u
wdr=8u
C2
net167366
ldr:1u
wdr=8u
net167122
8u/1u
M1463
"nch"
C2
net41490
ldr:1u
wdr=8u
net41406
8u/1u
M770
"nch"
C2
net41520
ldr:1u
wdr=8u
net41364
8u/1u
M779
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PDOR
PC
PDOR
PC
PDOR
PC
PDOR
PC
PDOR

Фиг 1.0600

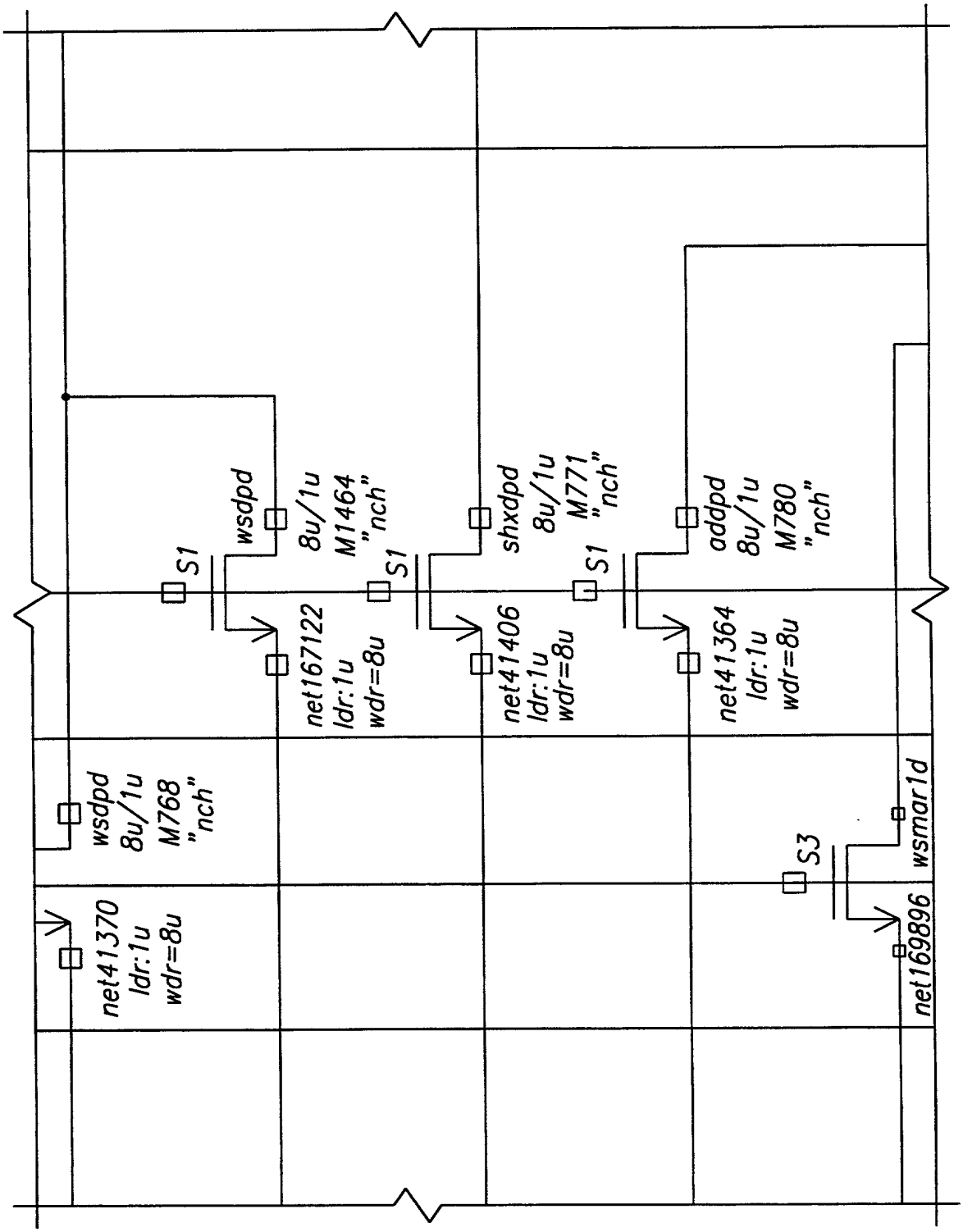
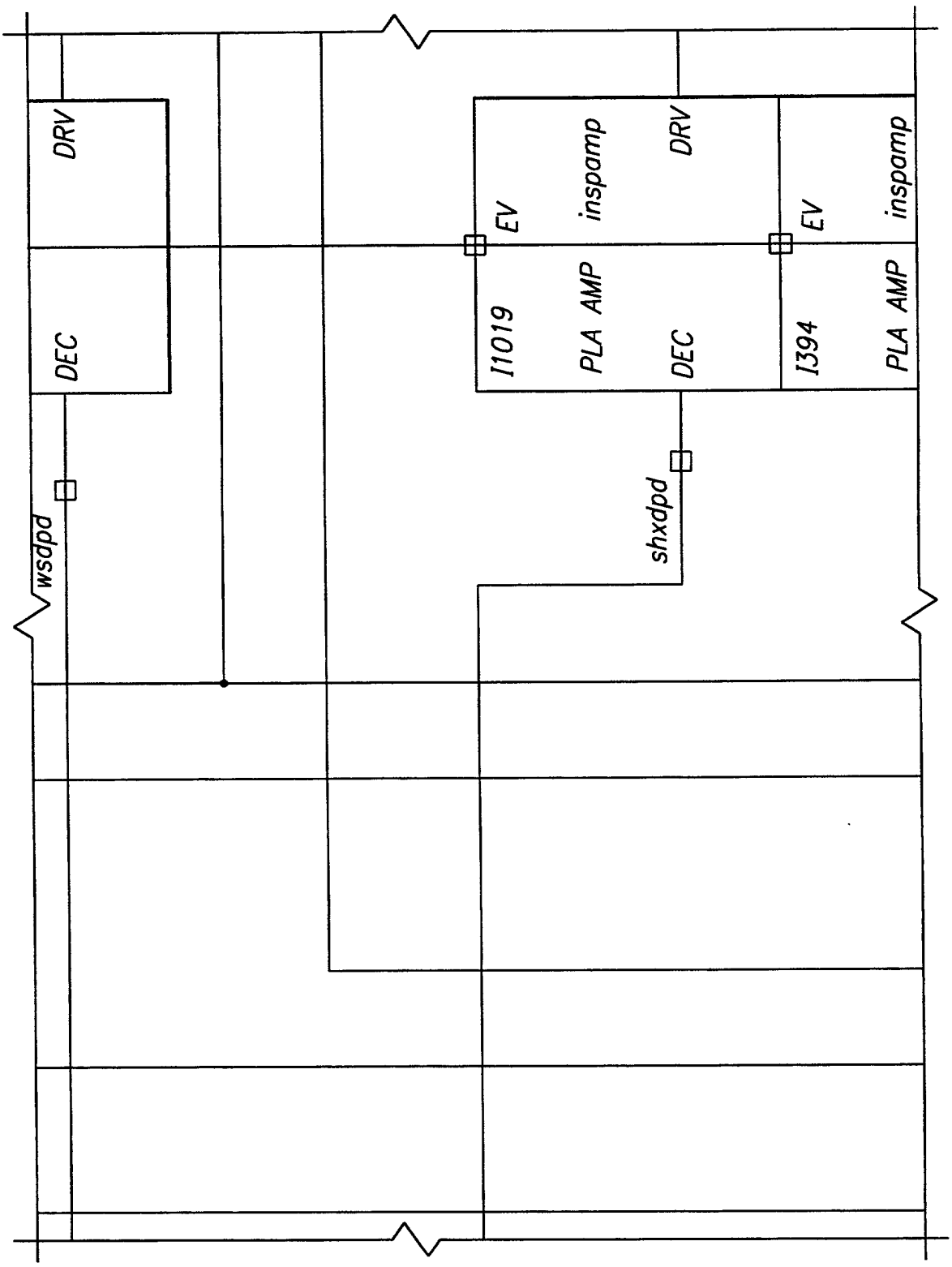


FIG. 1.0960

Top Secret Redacted



Фиг 1.006026

EP 1 520 226 B1

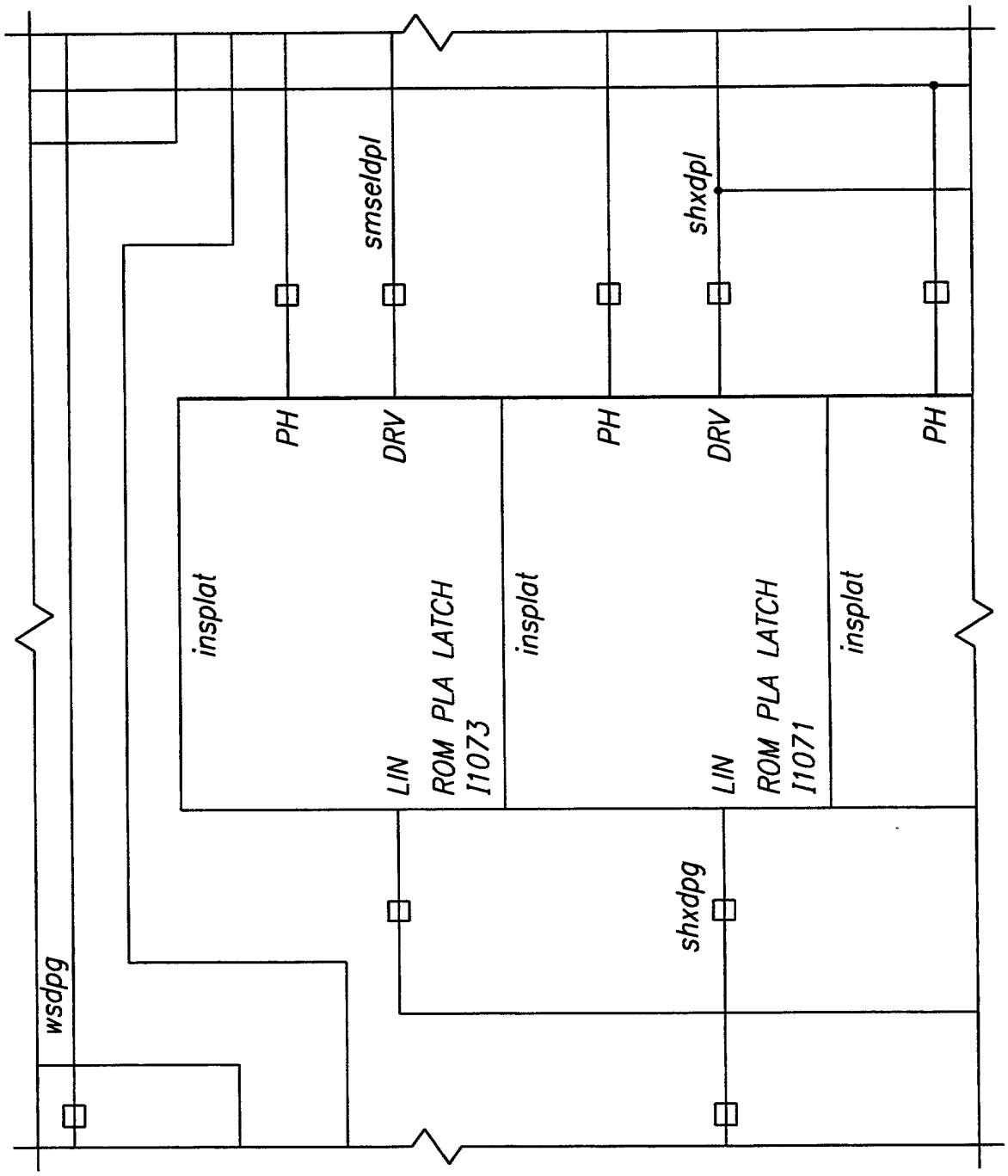
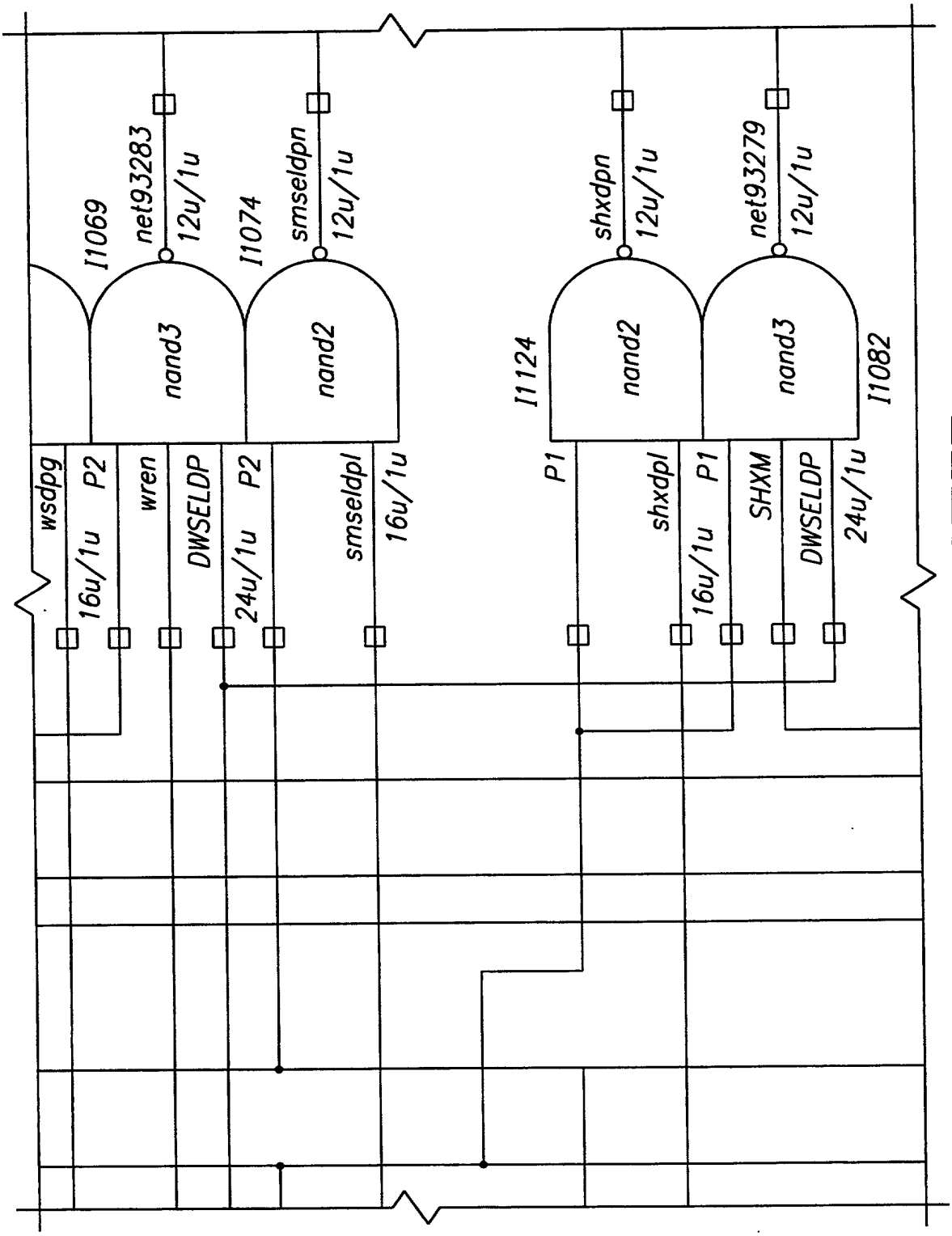
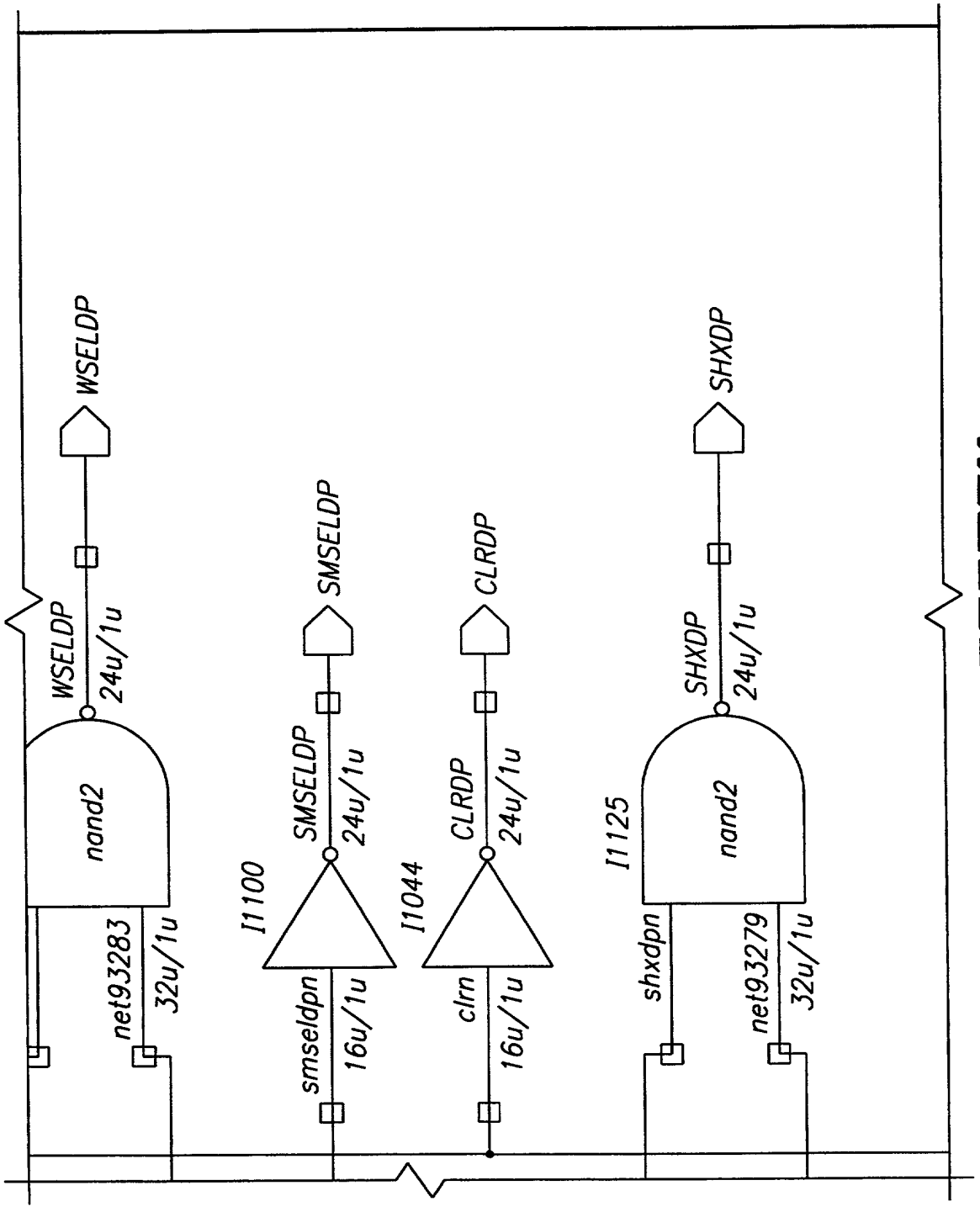


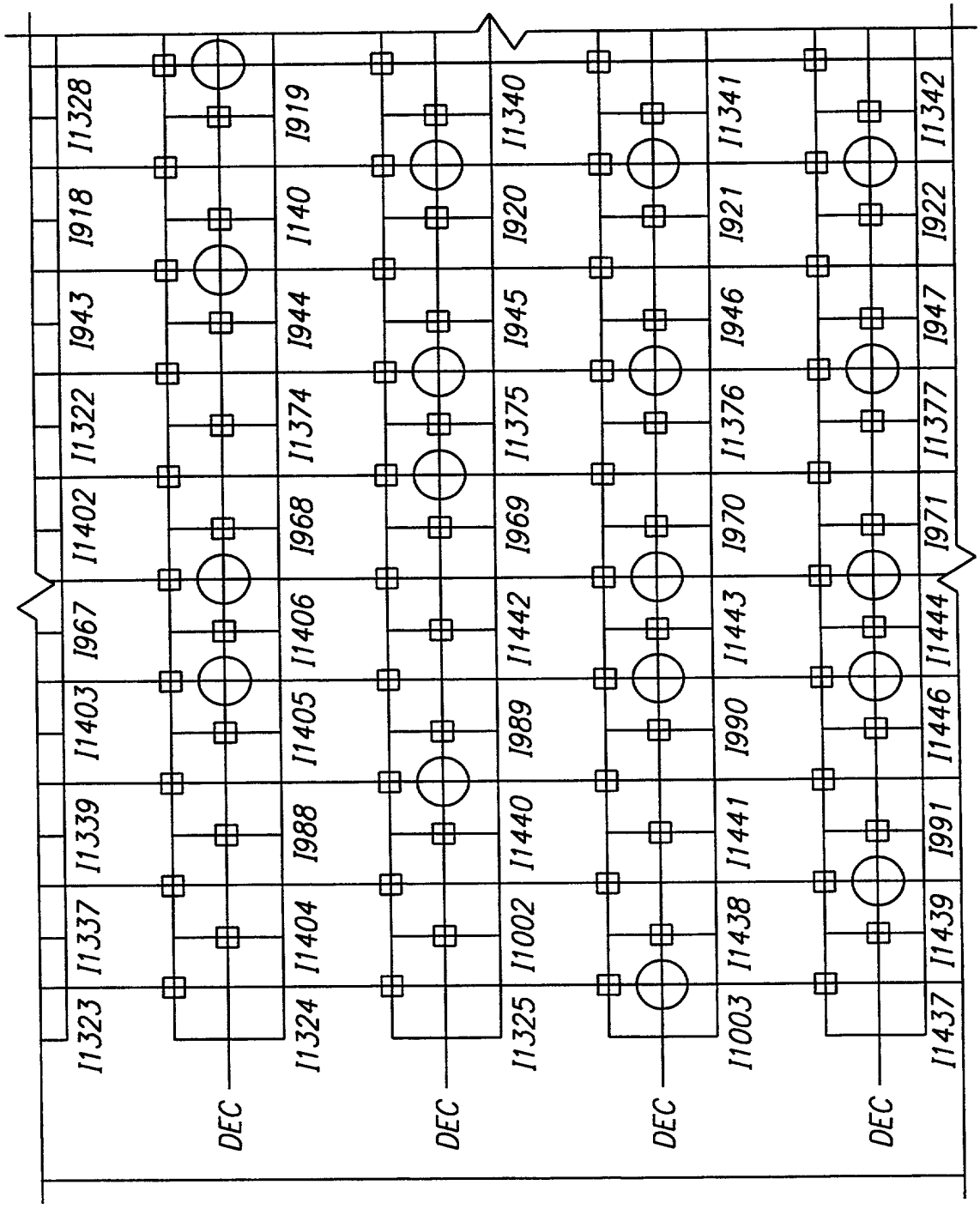
Fig 11.0609/3273


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smseldpn
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P2
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16u/1u
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nand2
P1
shxdpl
16u/1u
P1
net93279
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nand3
SHXM
DWSELDP
24u/1u
I1082

Фиг. 1


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WSELDP
24u/1u
nand2
net93283
32u/1u
SMSELDP
SMSELDP
24u/1u
I1100
smseldpn
16u/1u
CLRDP
CLRDP
24u/1u
I1044
clrn
16u/1u
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24u/1u
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32u/1u

Фиг 1.0602FH



Фиг. 1.0050.2

1011320-20220520

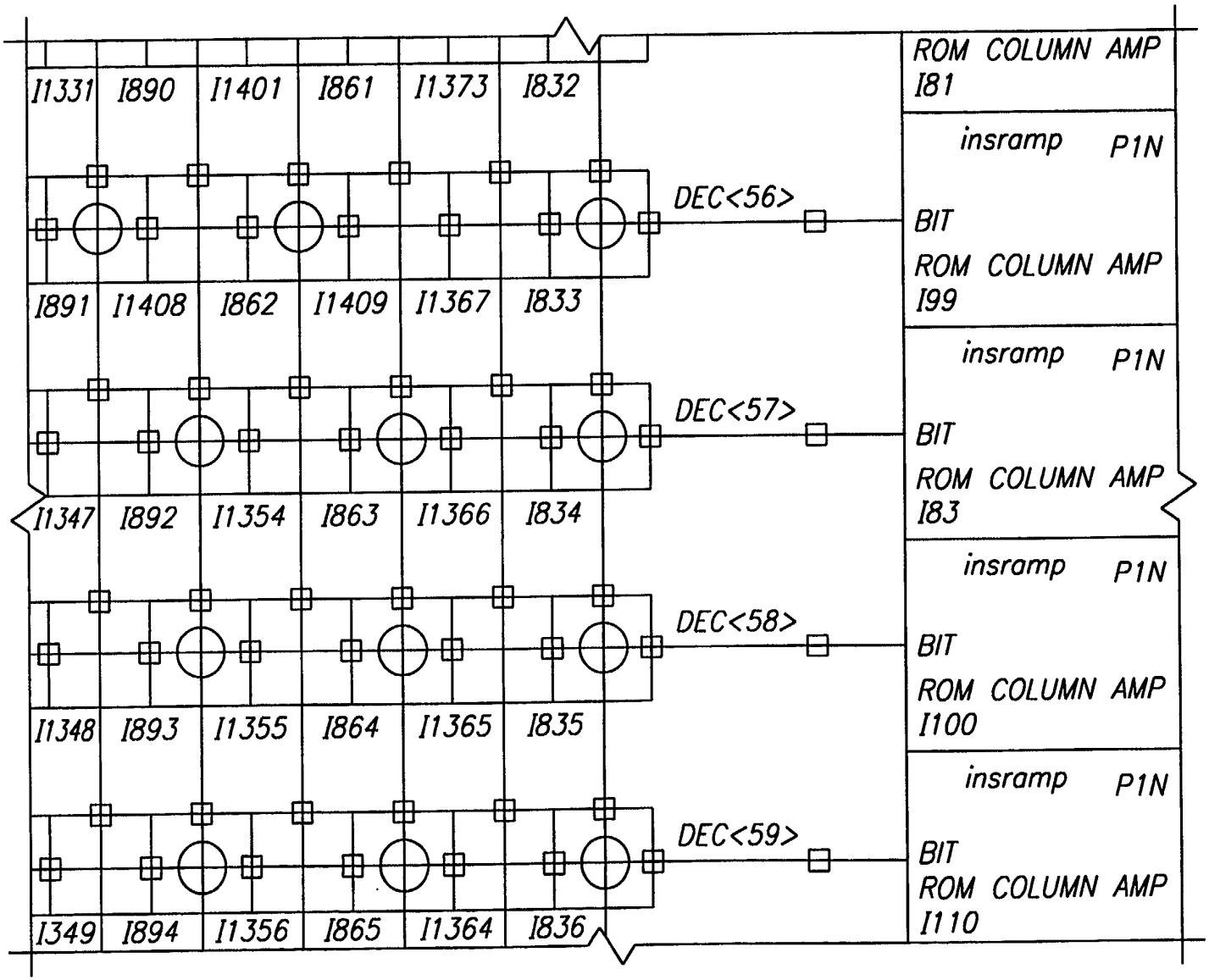
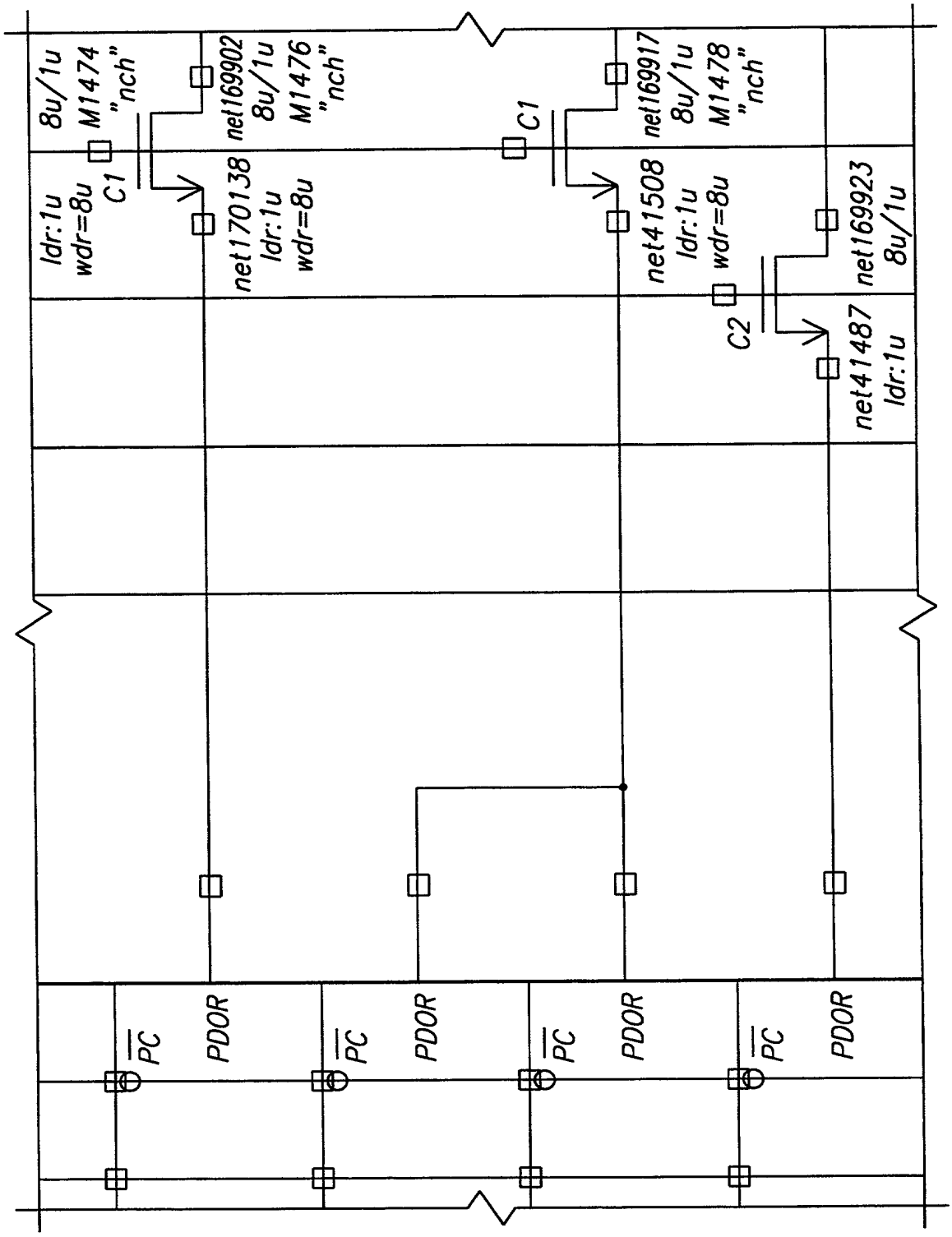
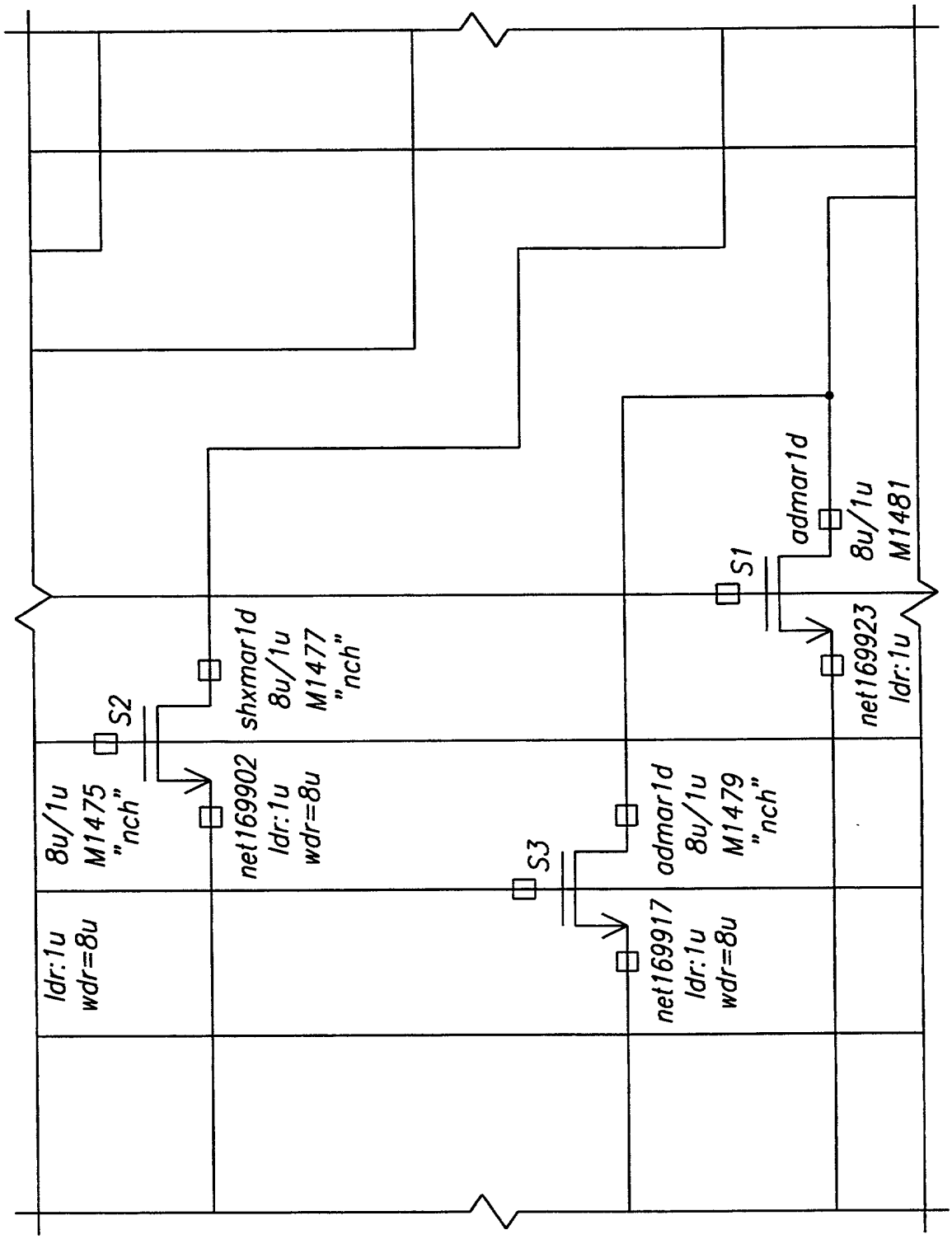

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I99
insramp
P1N
BIT
ROM COLUMN AMP
I83
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P1N
BIT
ROM COLUMN AMP
I100
insramp
P1N
BIT
ROM COLUMN AMP
I110

Fig 1.0602GB



Фиг 1.0502

Patent Application Publication


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S2
shxmar1d
8u/1u
M1477
"nch"
net169902
ldr:1u
wdr=8u
ldr:1u
wdr=8u
S3
admar1d
8u/1u
M1479
"nch"
net169917
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wdr=8u
S1
admar1d
8u/1u
M1481
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ldr:1u

Фиг. 1

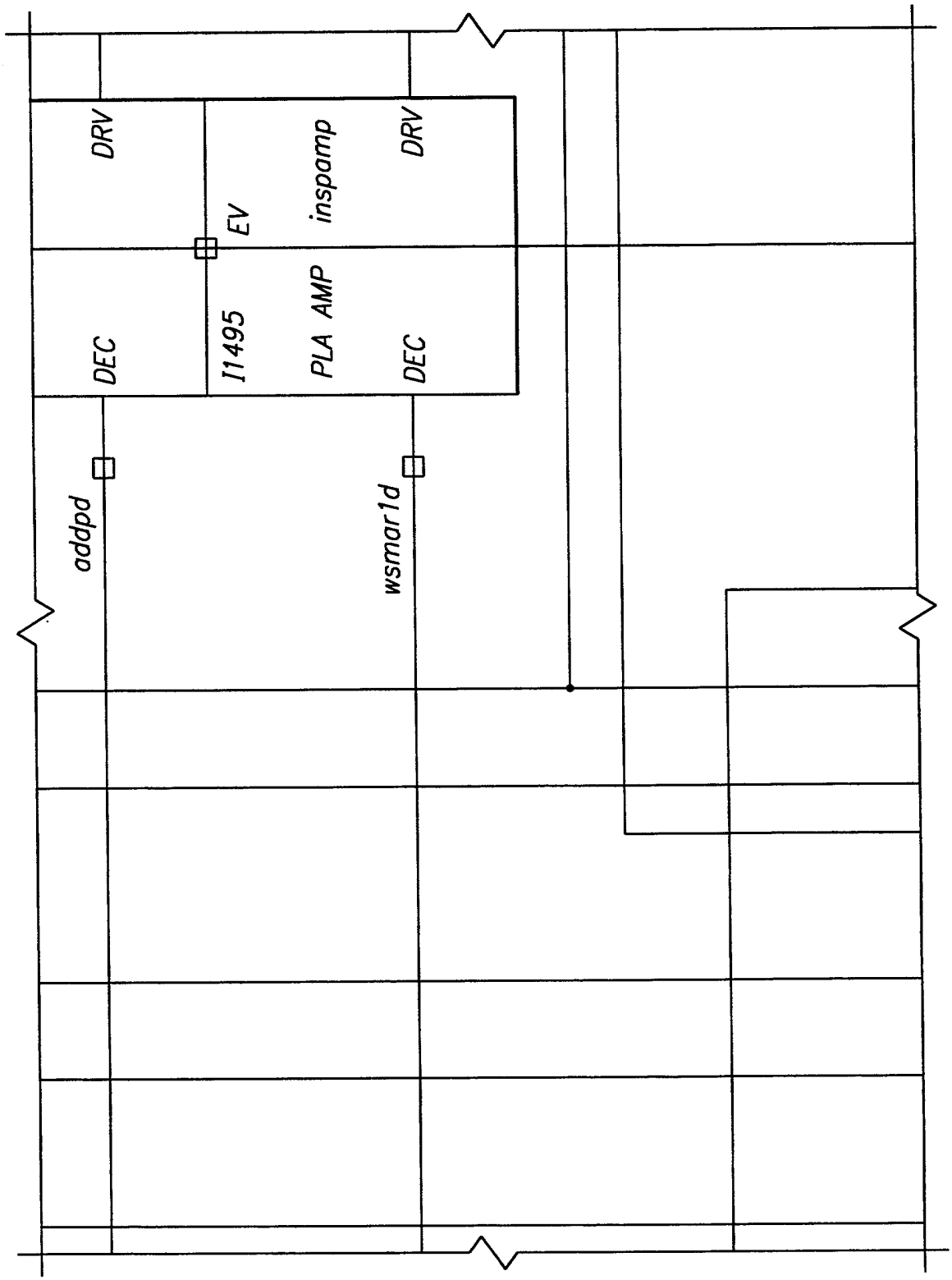


Fig 9 U.S. Patent

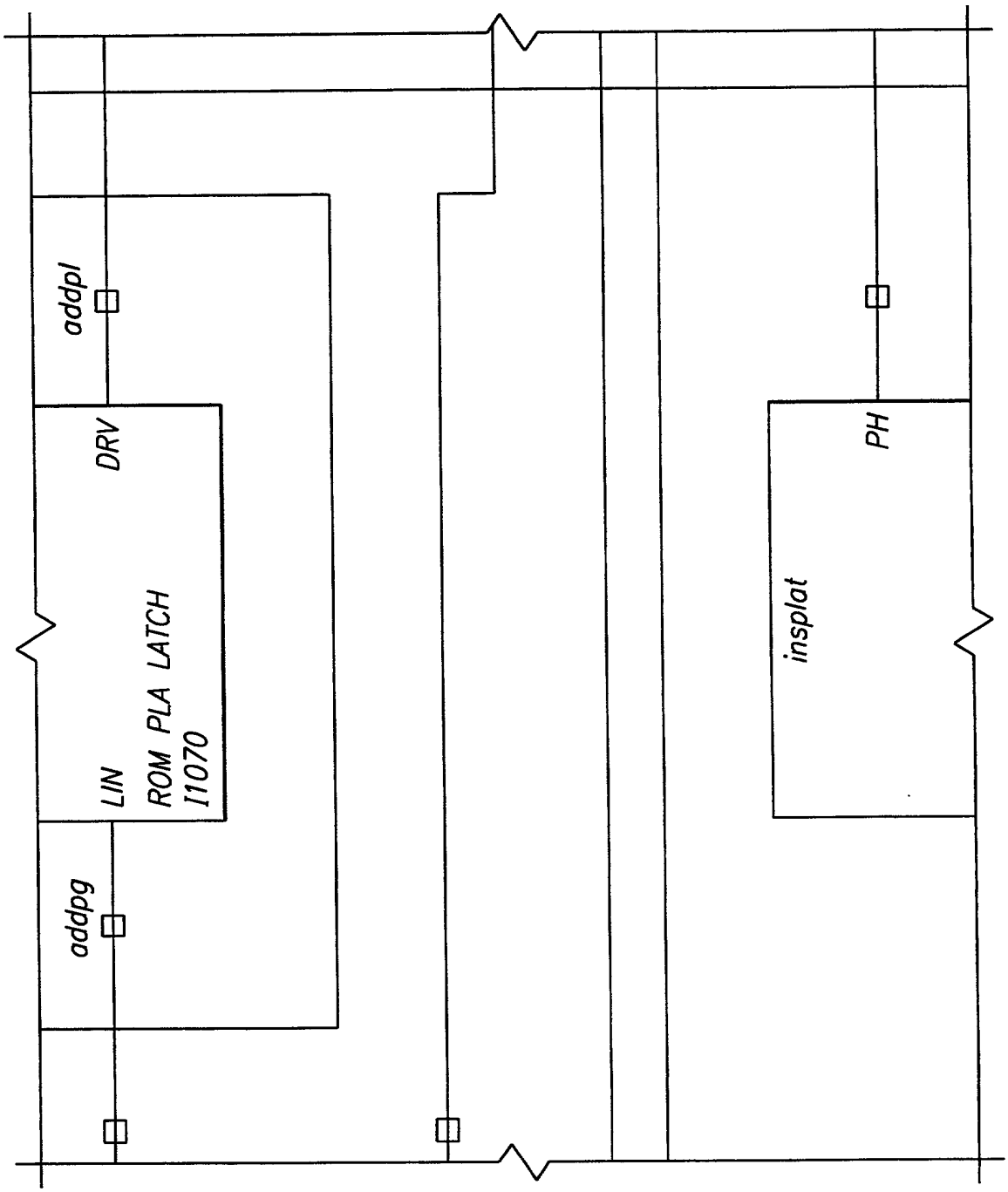
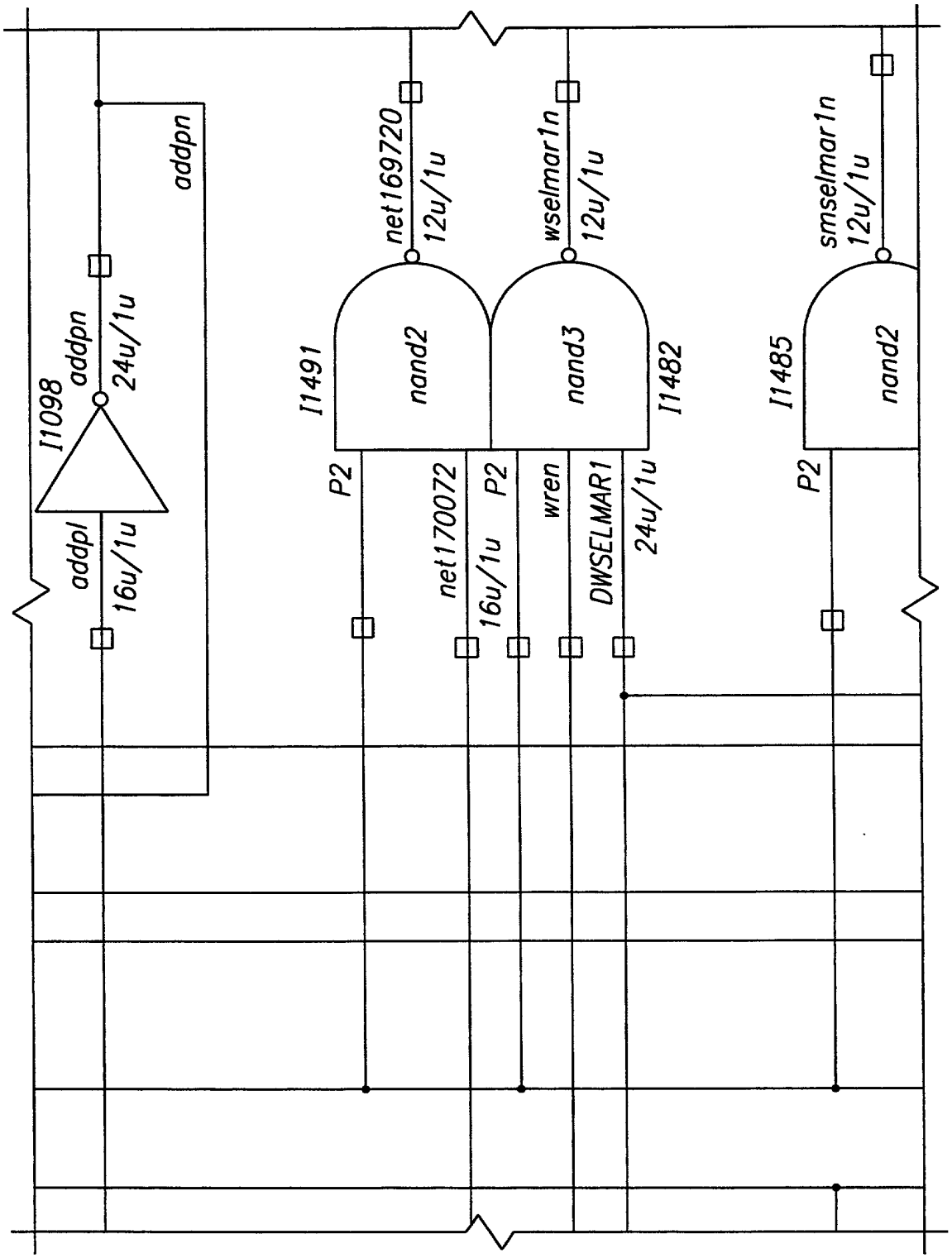


Fig 11.0050295F



Фиг 1.0050256

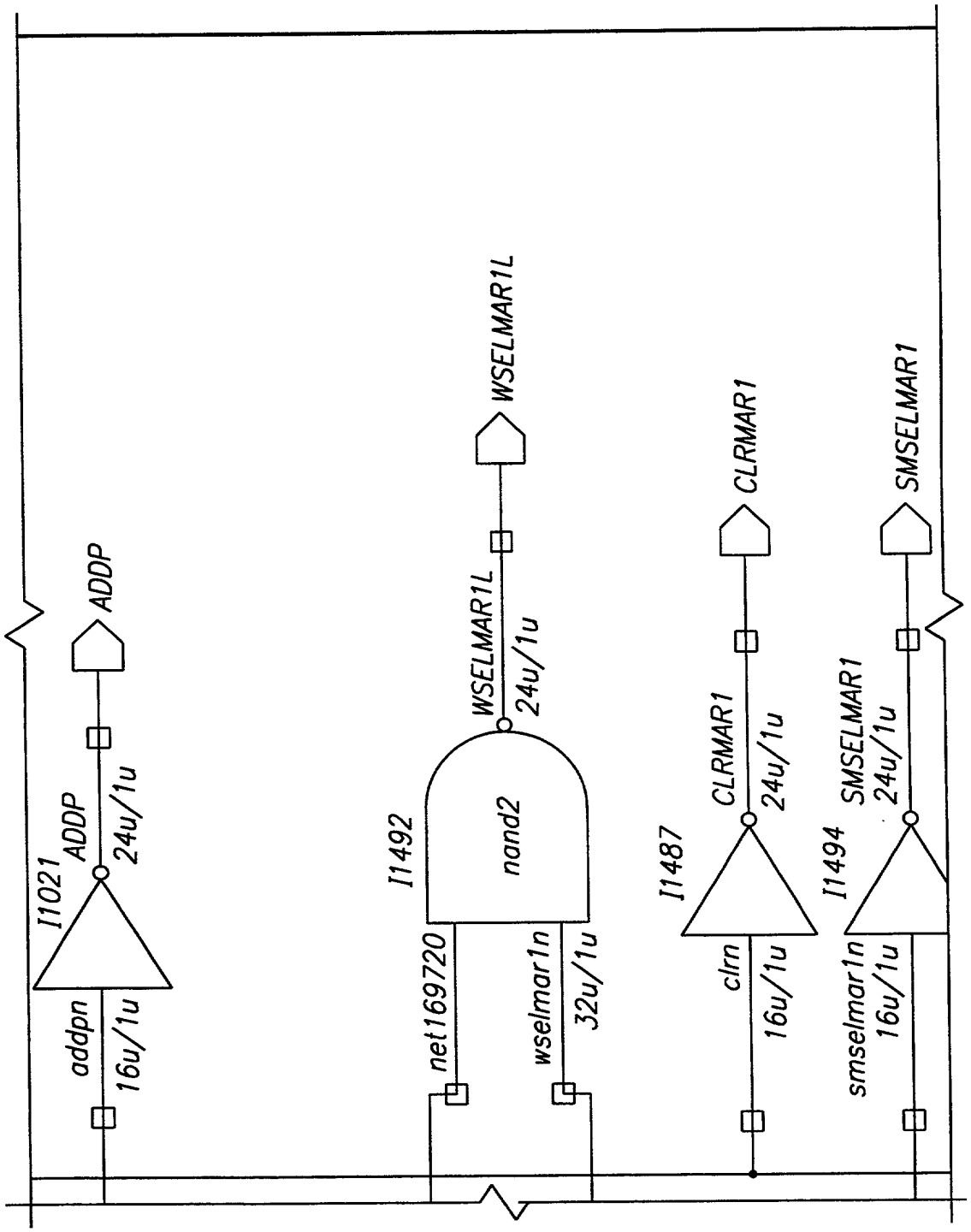
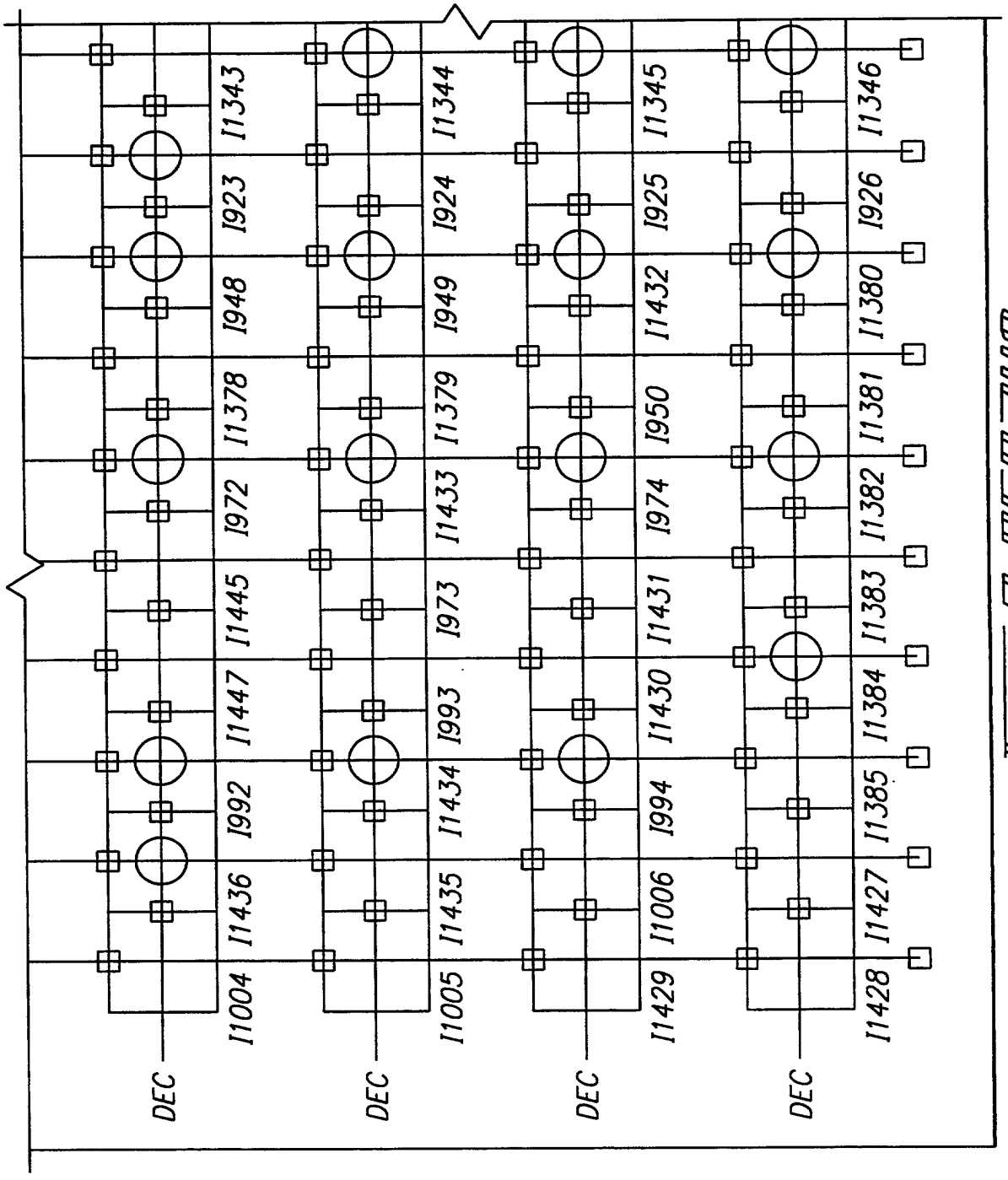

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32u/1u
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24u/1u
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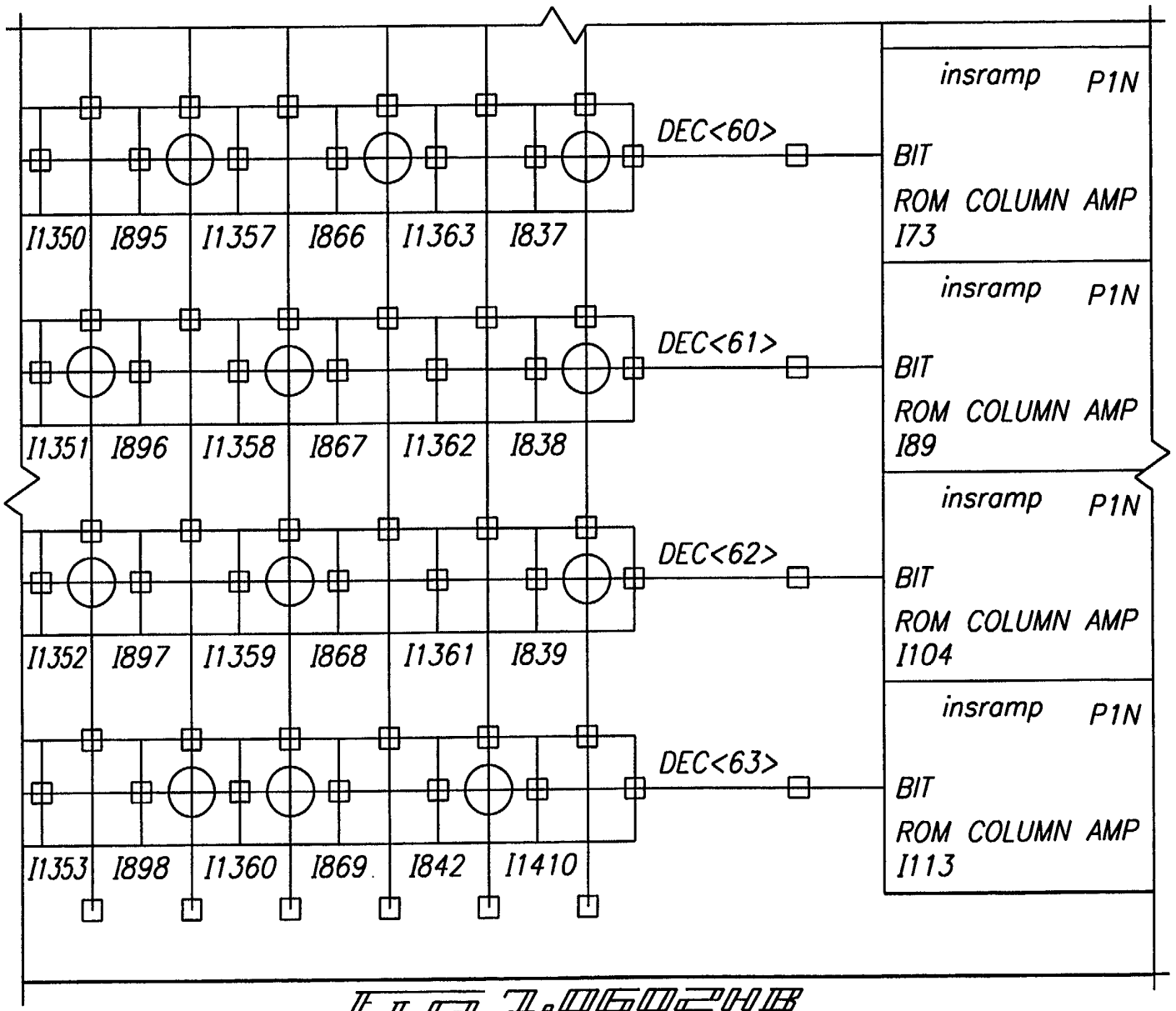
Fig. 11.005H

patent-2002260



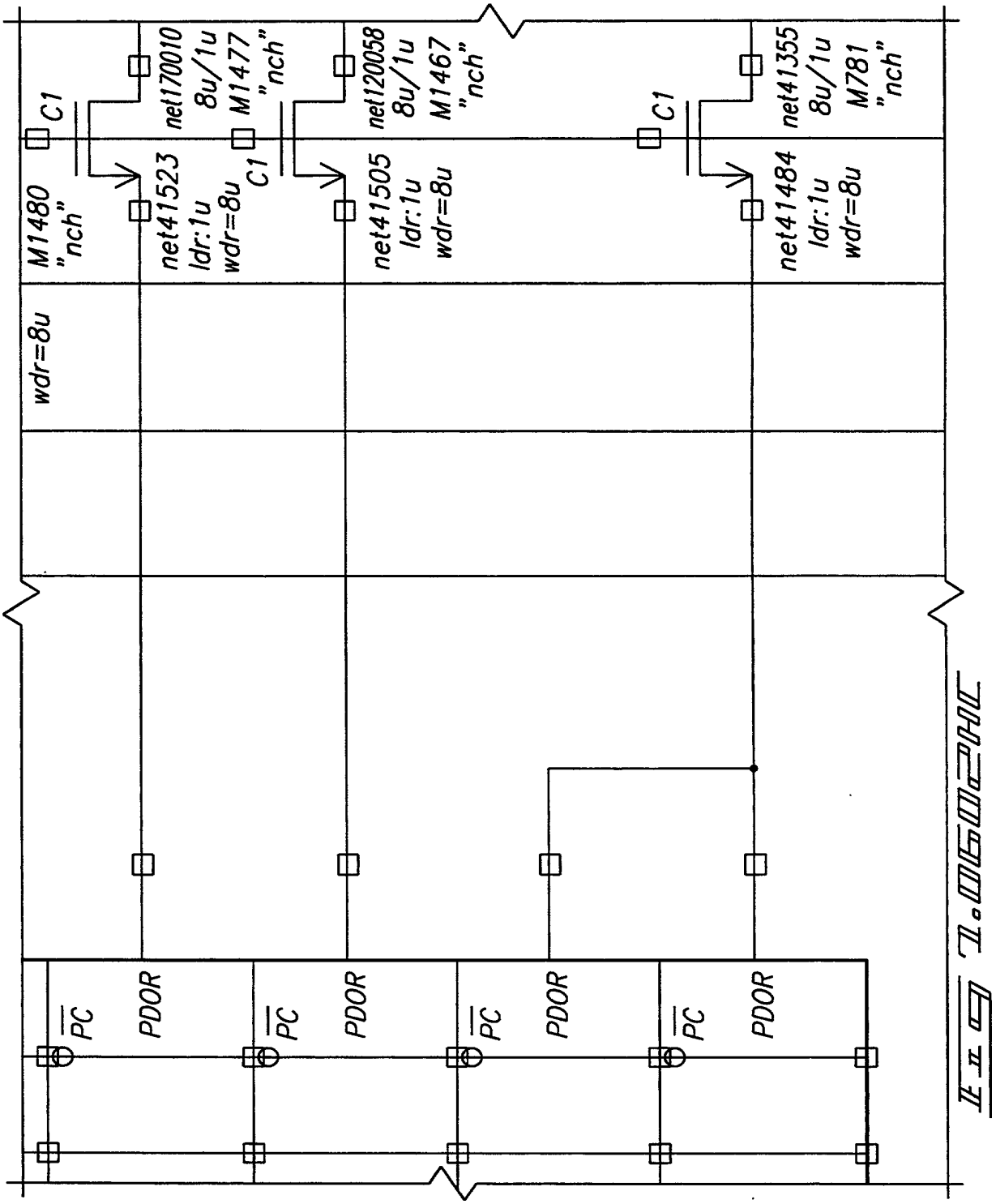
Фиг. 1.0500

TOTTOP"E9D22860



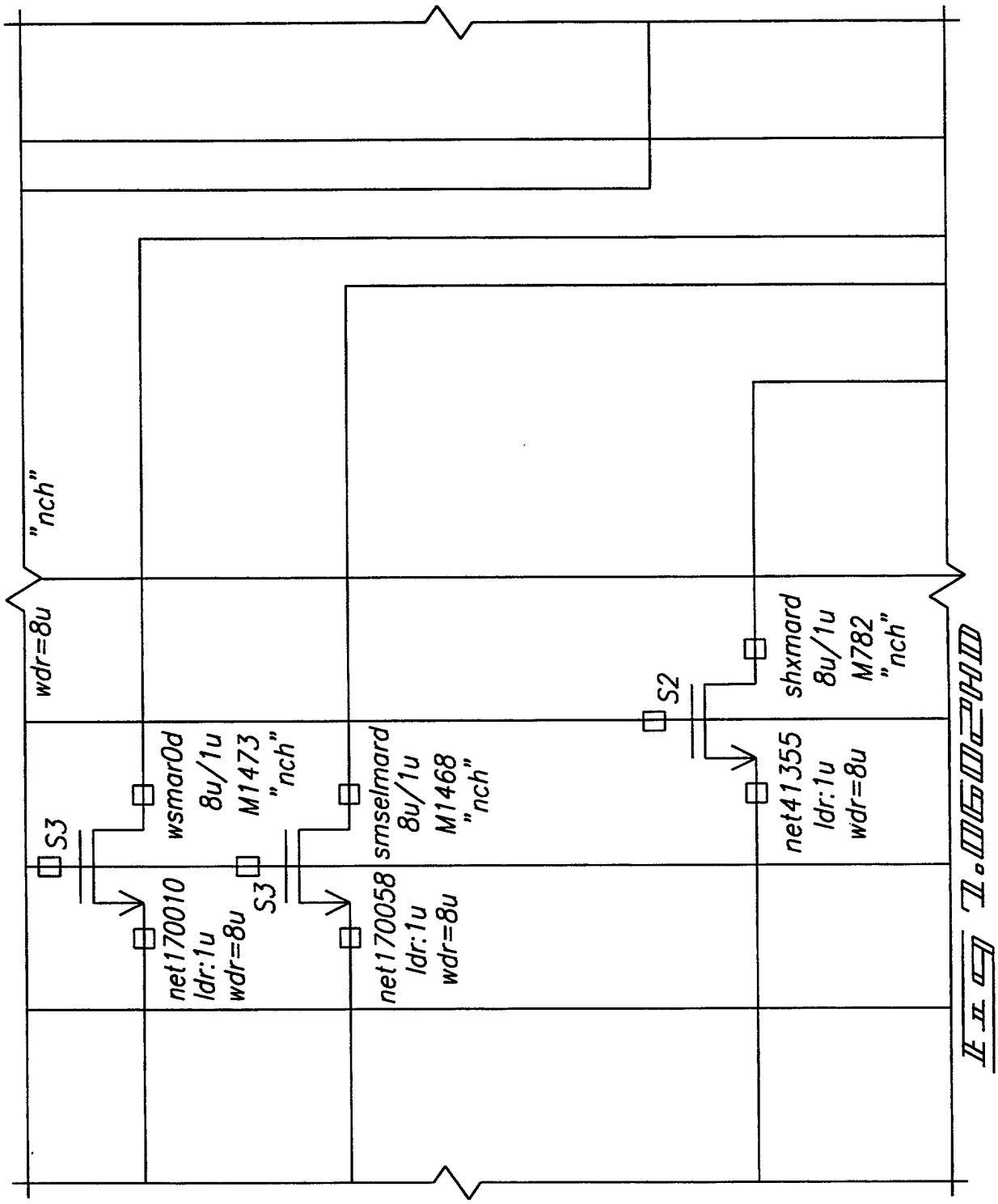
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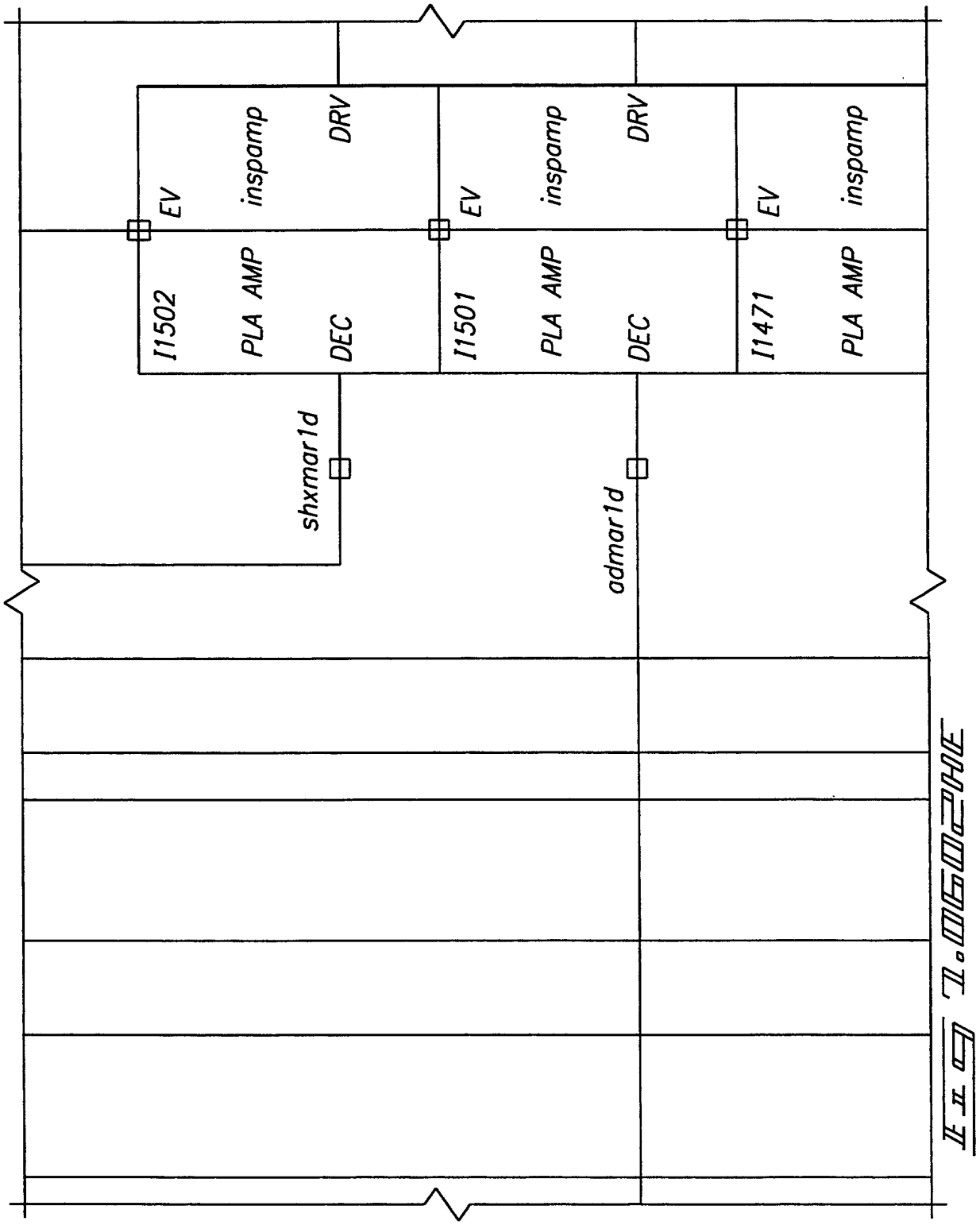
621/3273



Фиг. 5

1-0151-2565229-0


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M1473
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net170010
ldr:1u
wdr=8u
S3
smselmard
8u/1u
M1468
"nch"
net170058
ldr:1u
wdr=8u
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wdr=8u



Фиг. 6

EP 0 572 263 B1

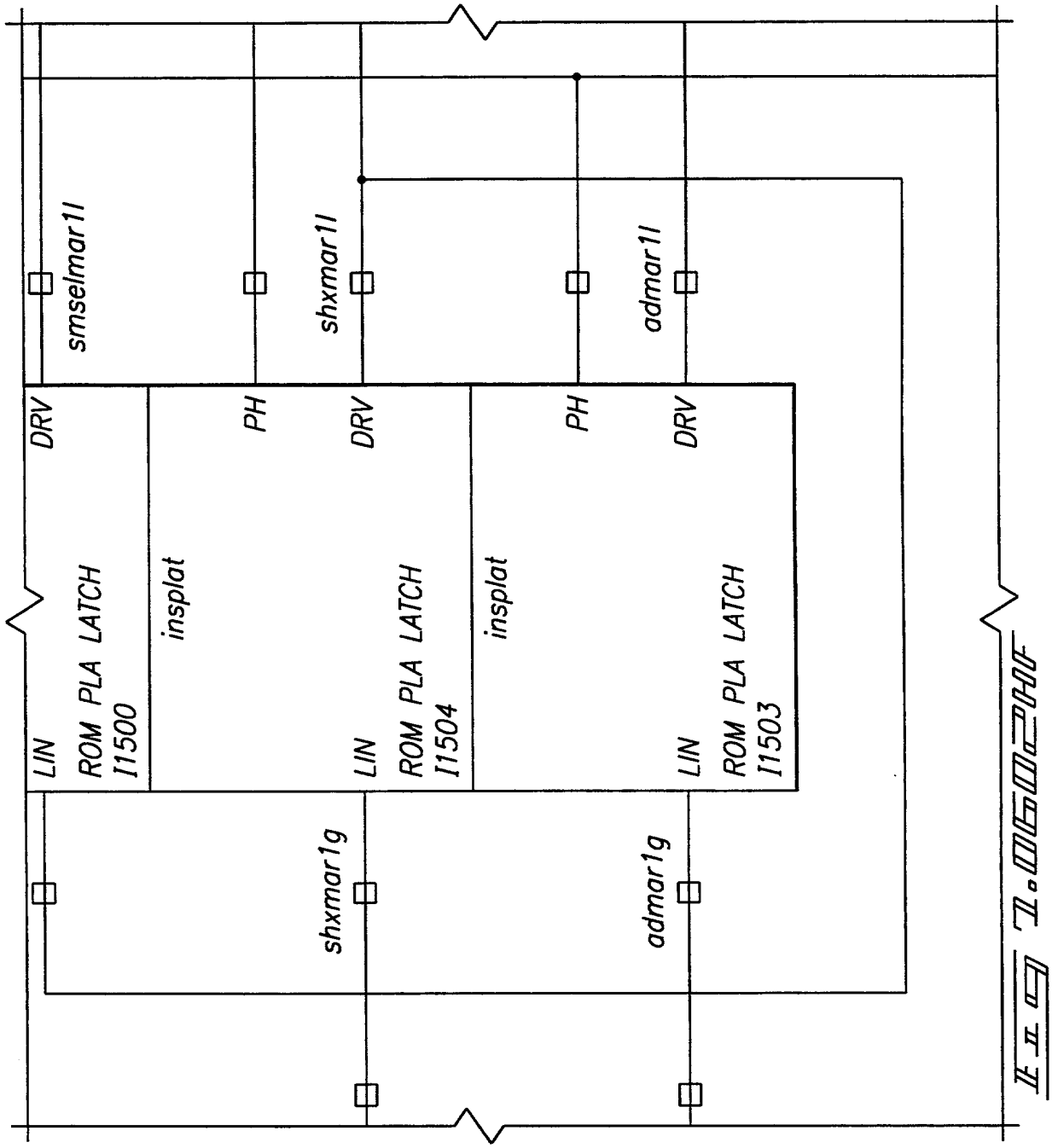
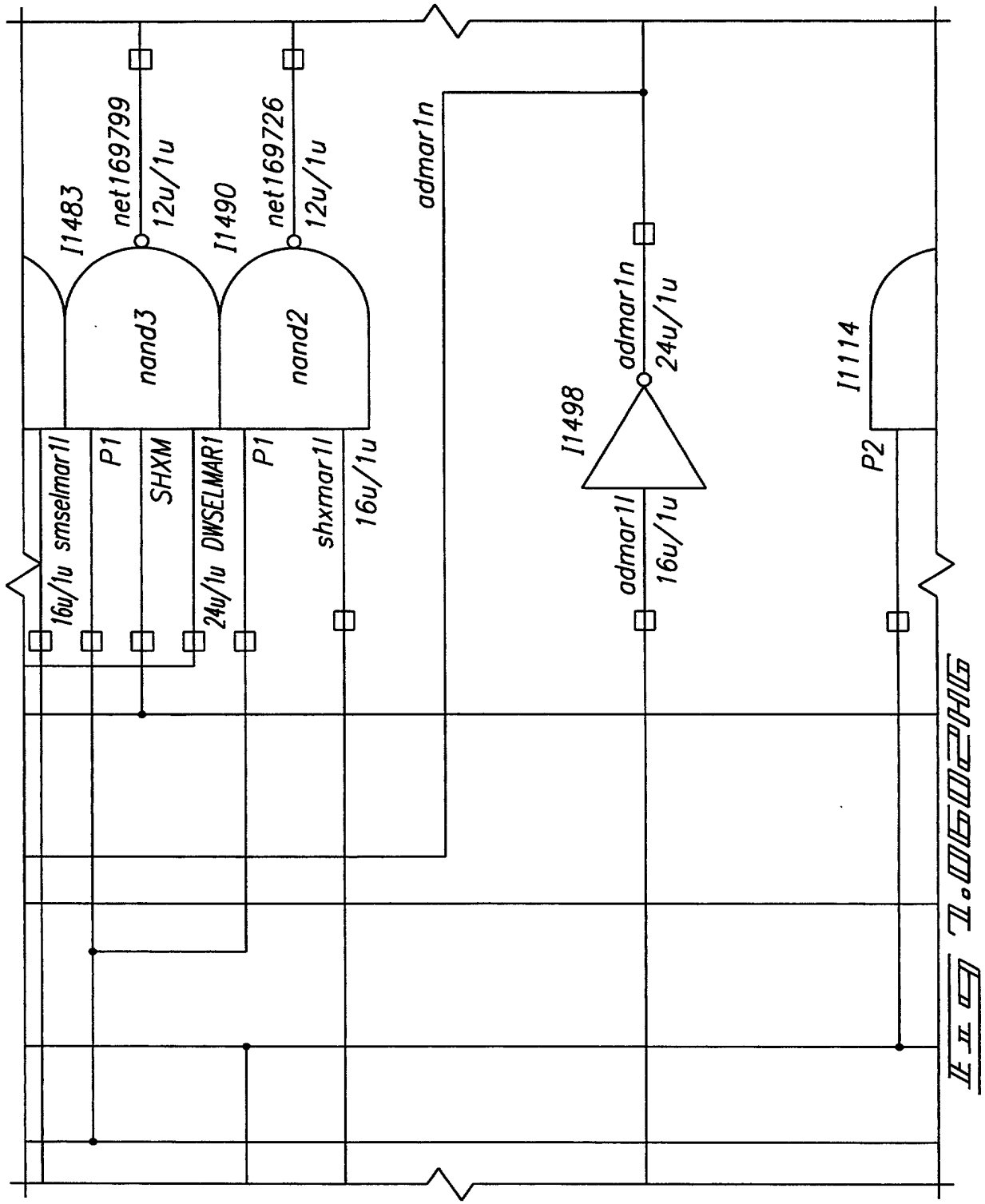


Fig 11.0500AF


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net169726
12u/1u
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admar1n
24u/1u
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I1498
nand3
nand2
16u/1u smselmar1l
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P2

Patent application publication

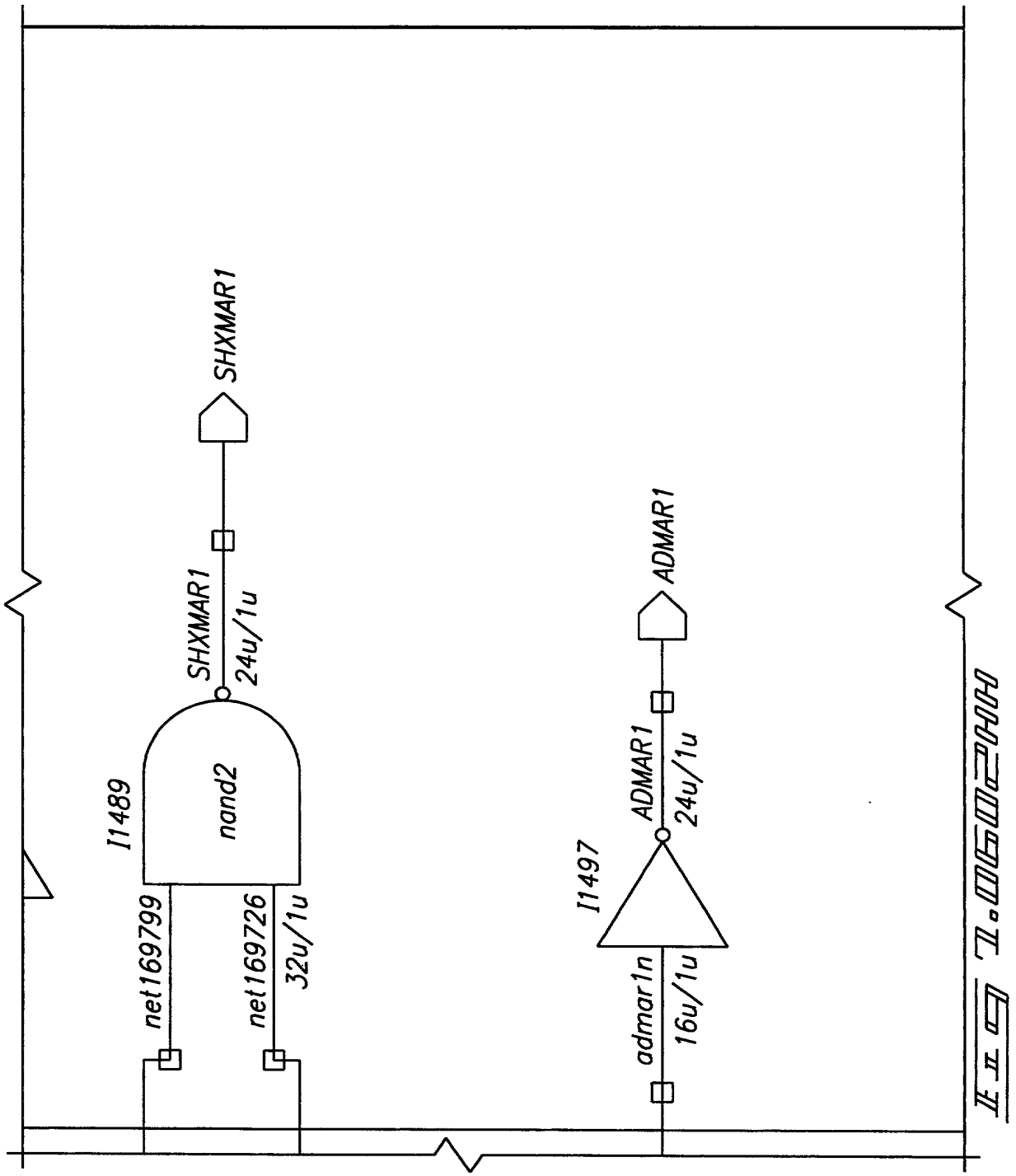
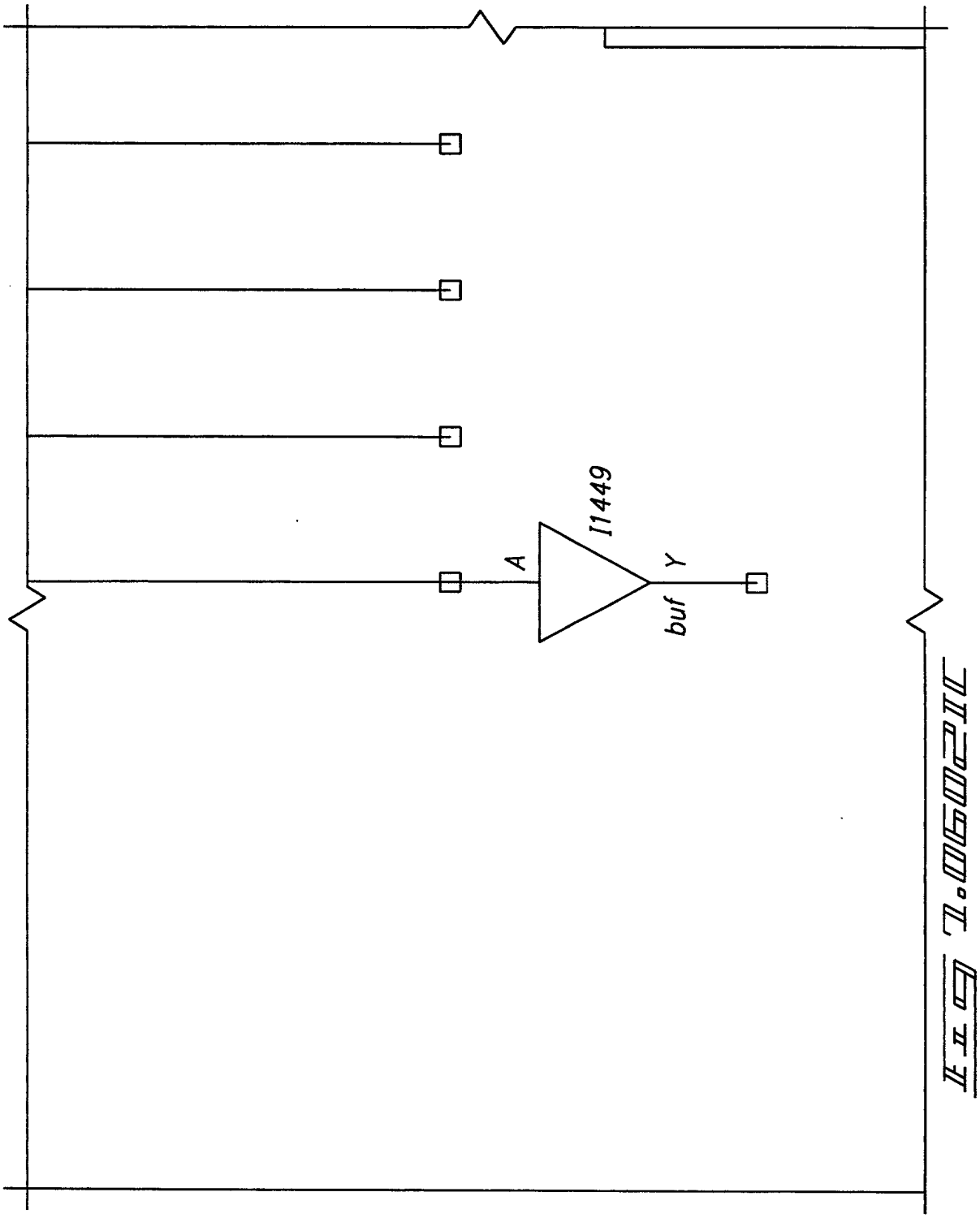
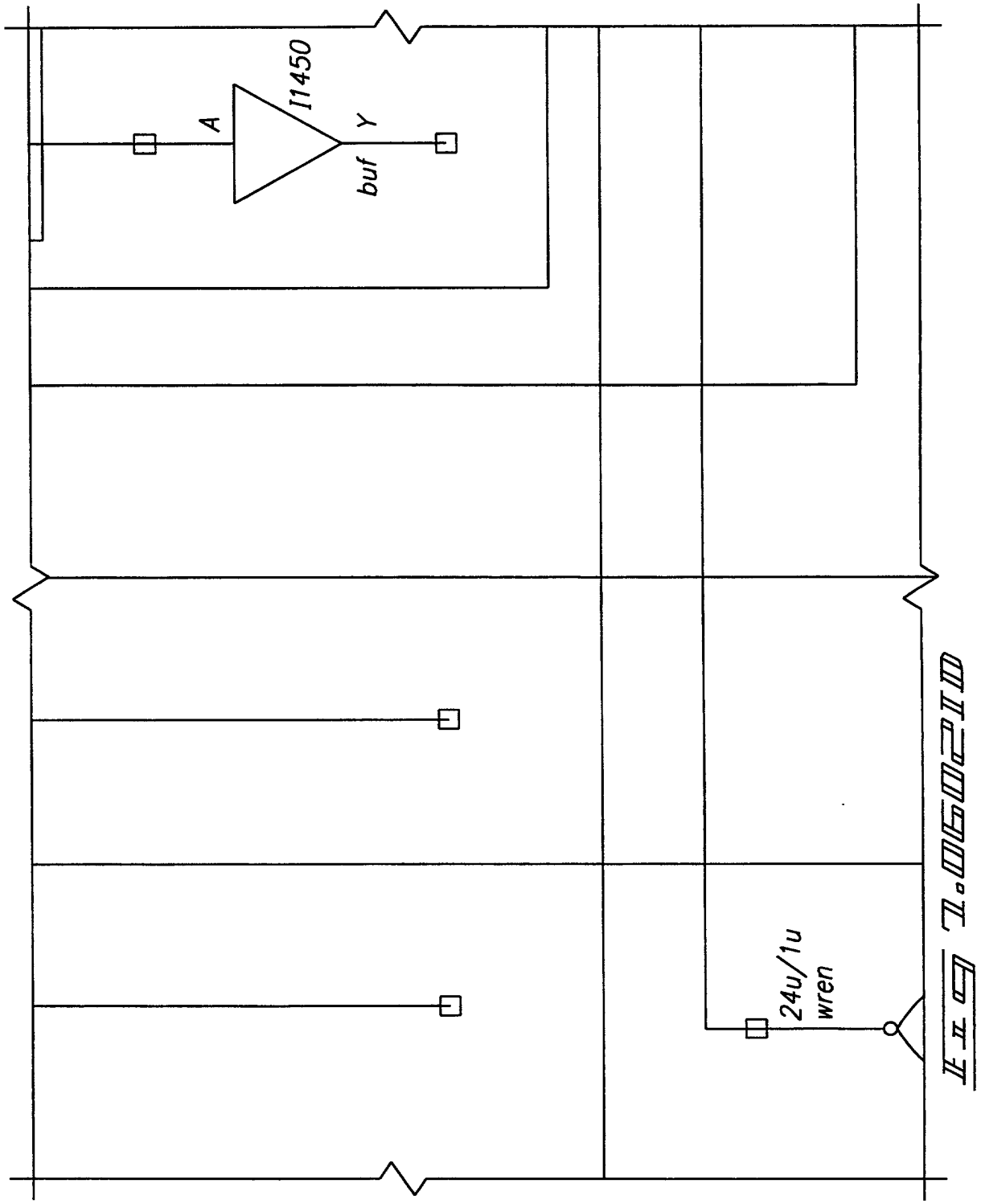


Fig 5



Patent Application Publication


I1450
A
Y
buf
24u/1u
wren

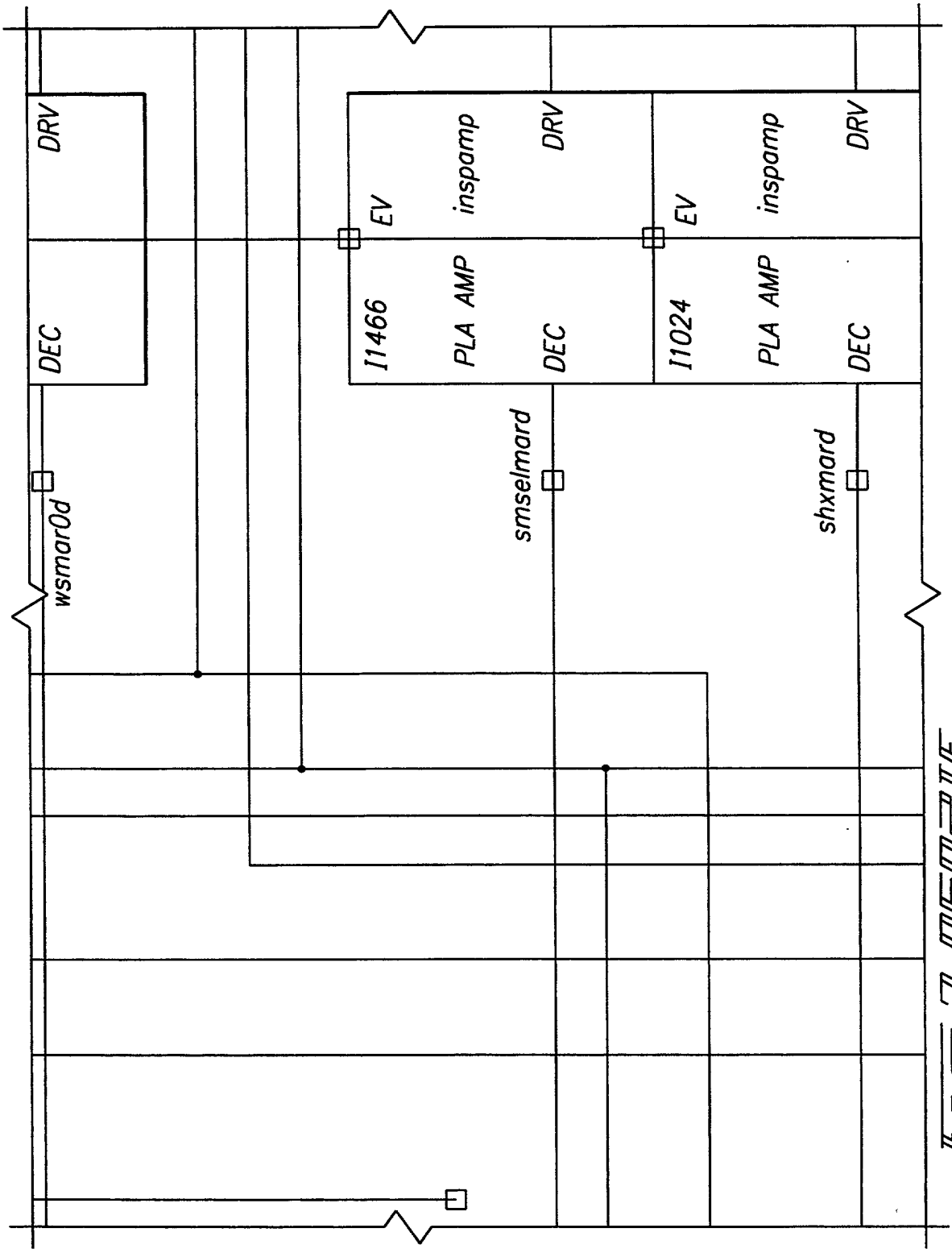
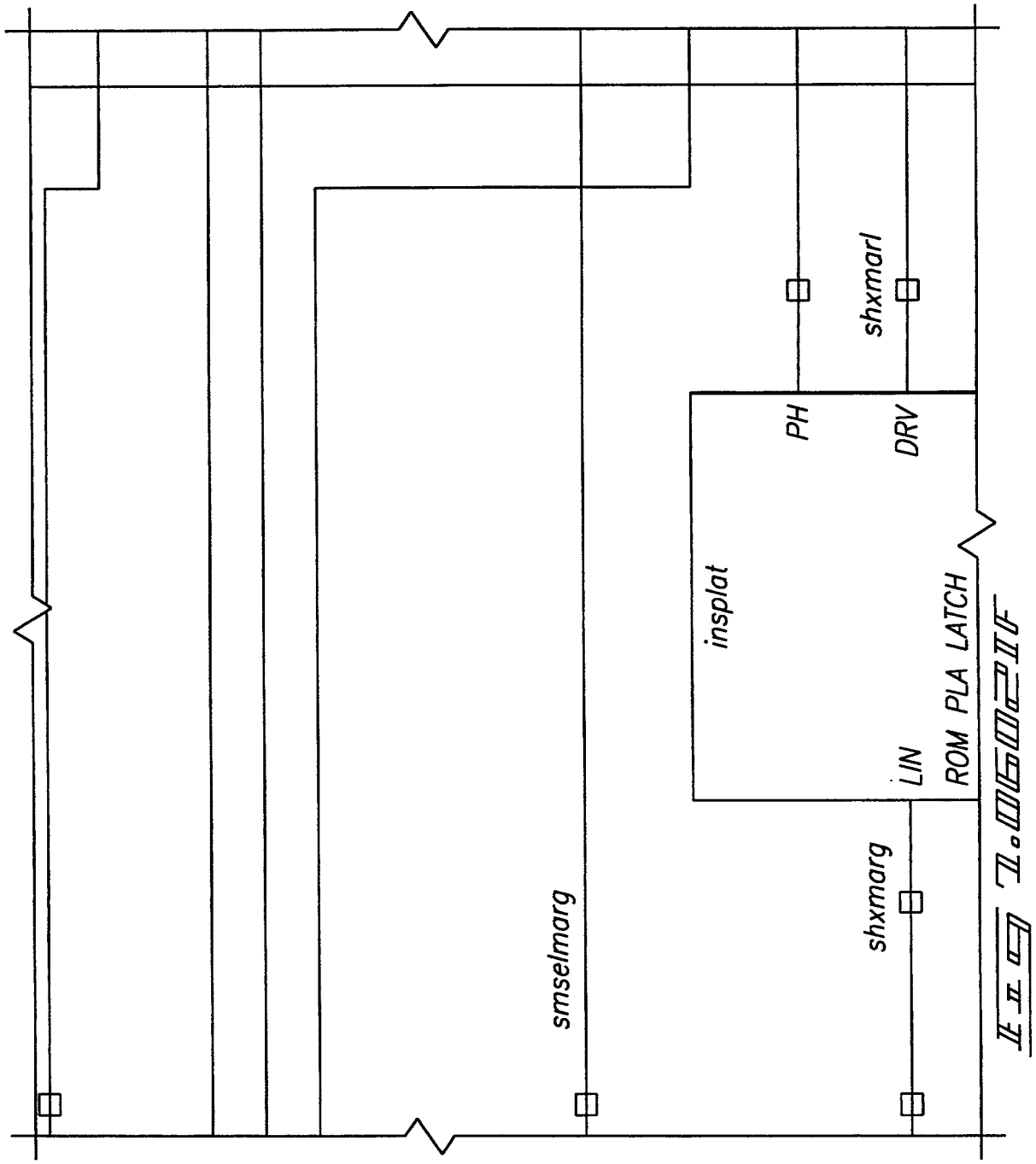
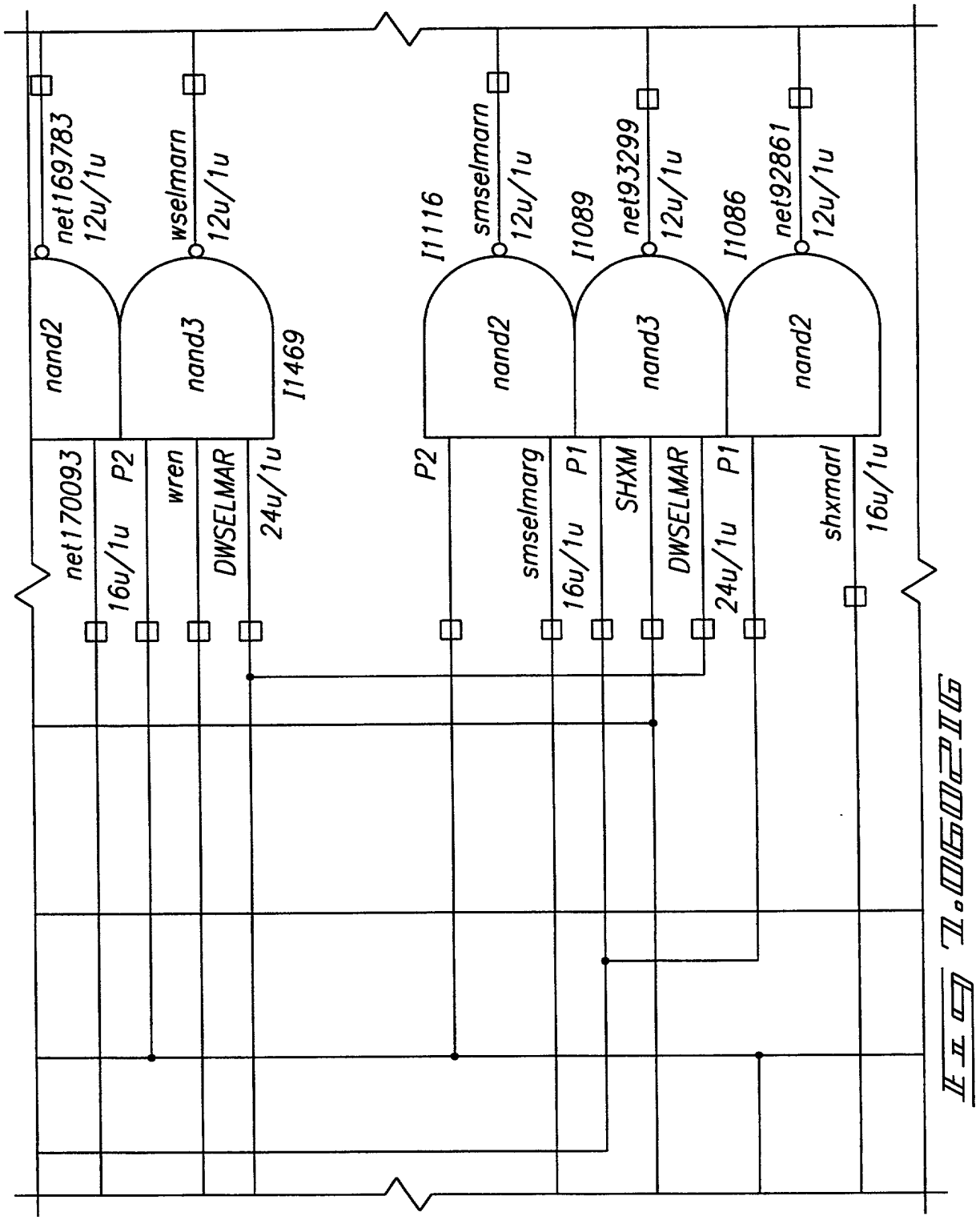


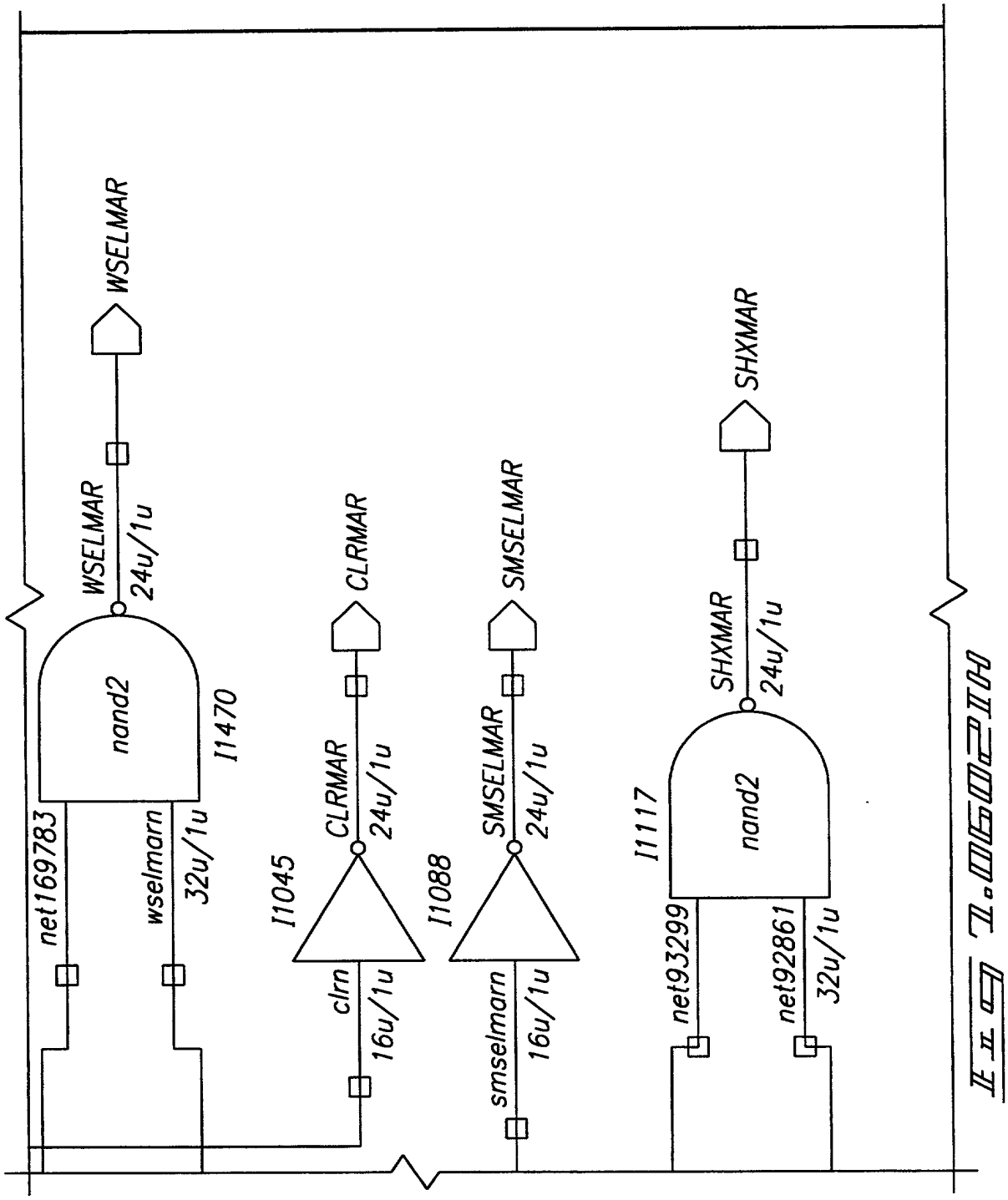
Fig 1.0500E

10174959 - 0522959

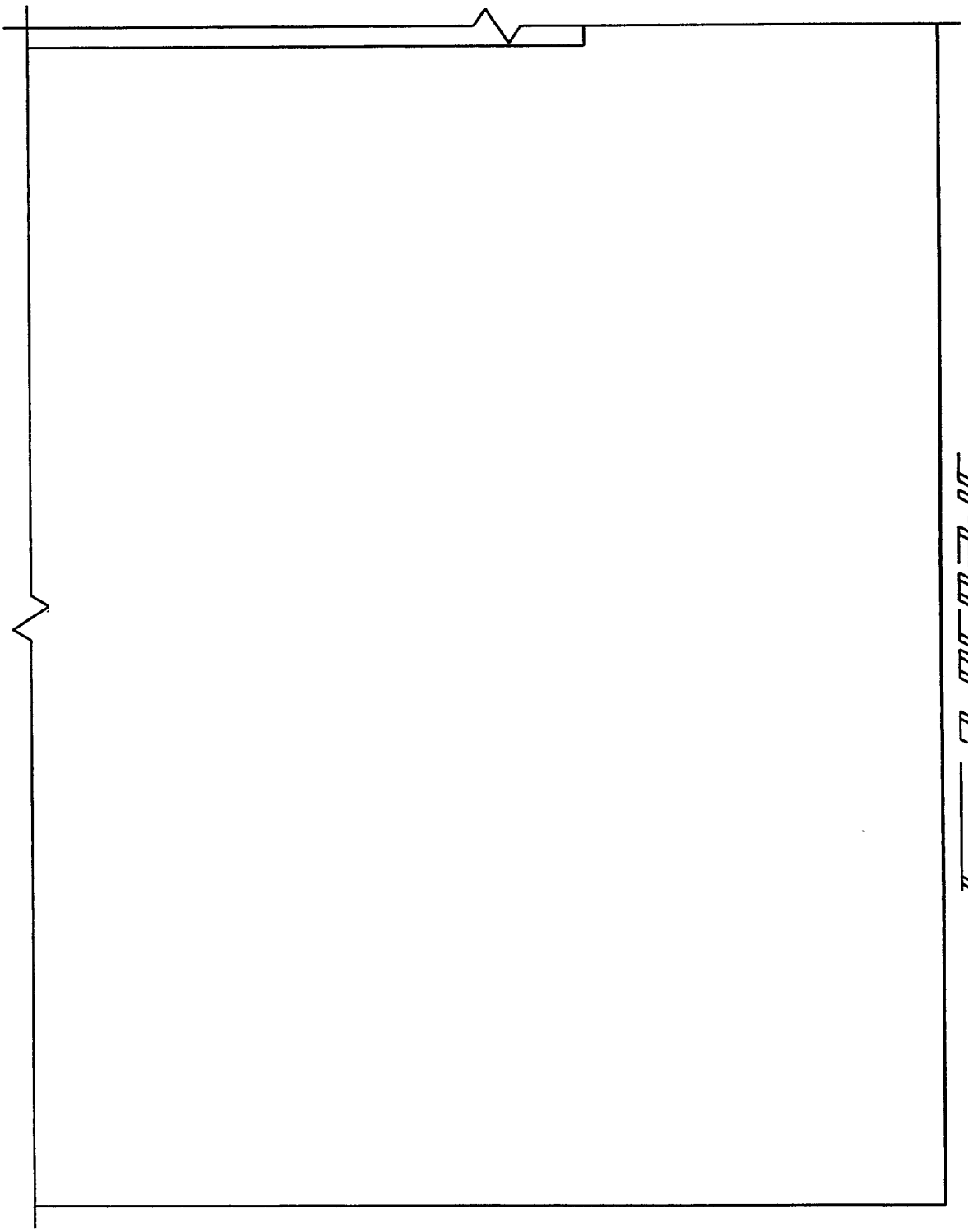

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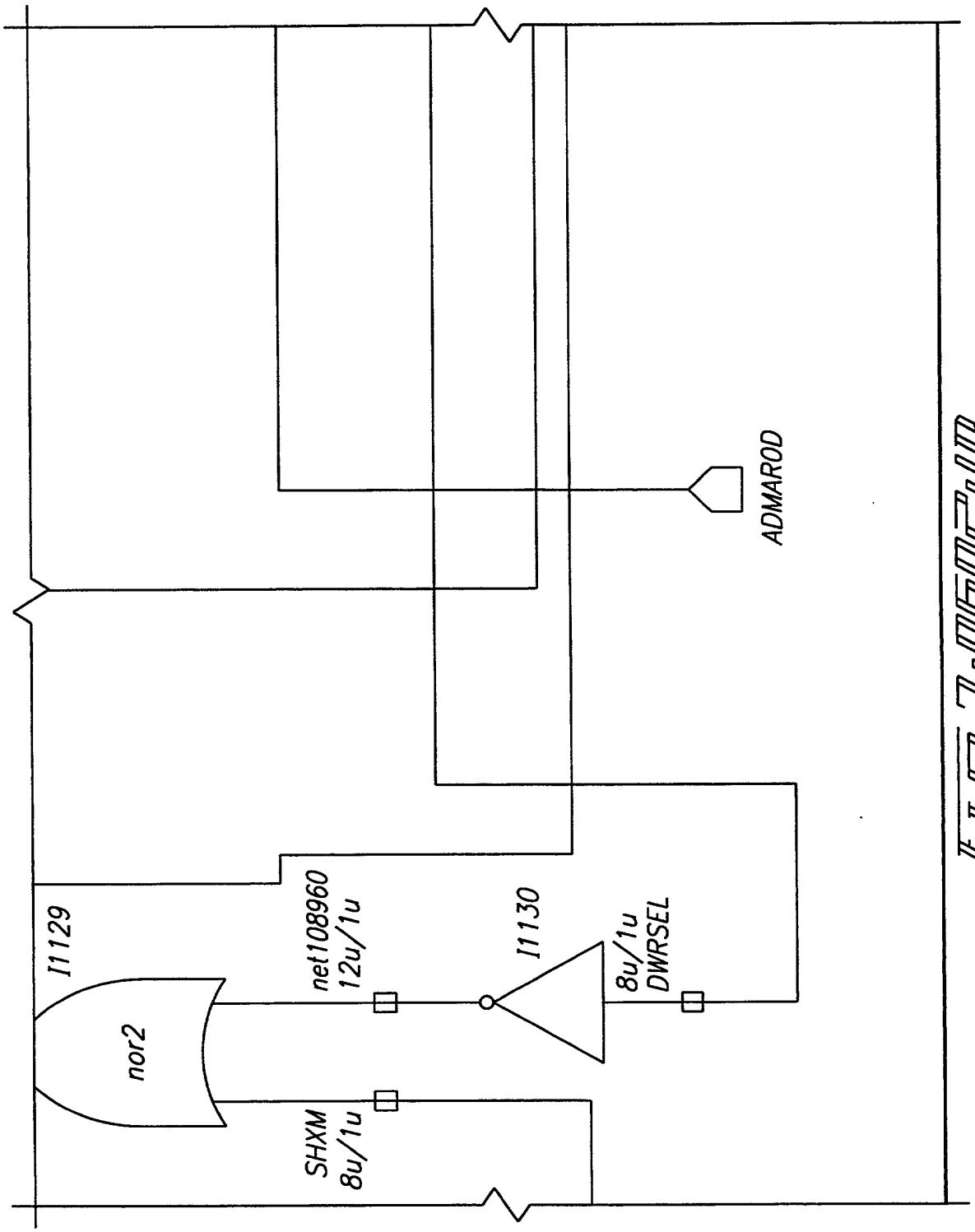


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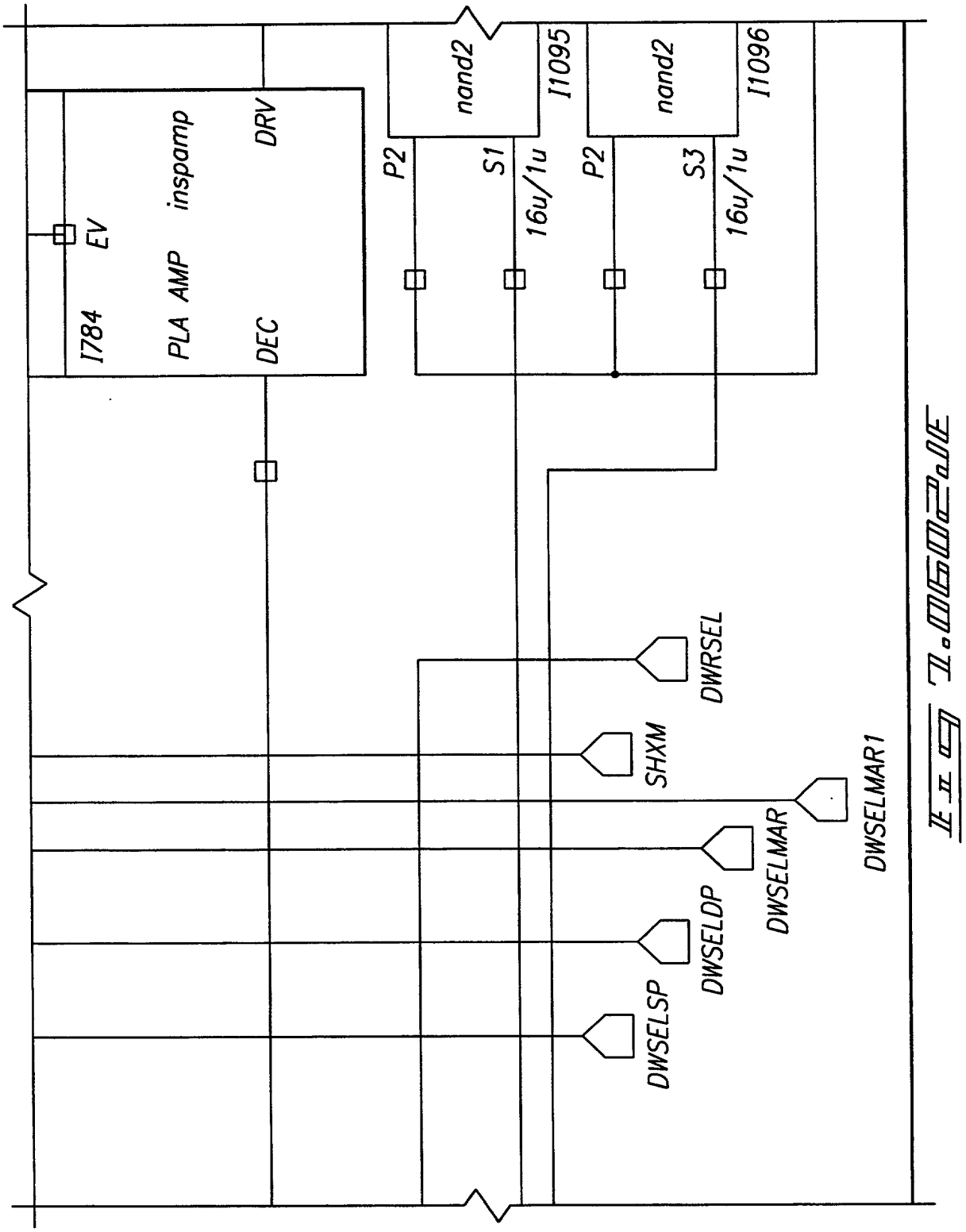
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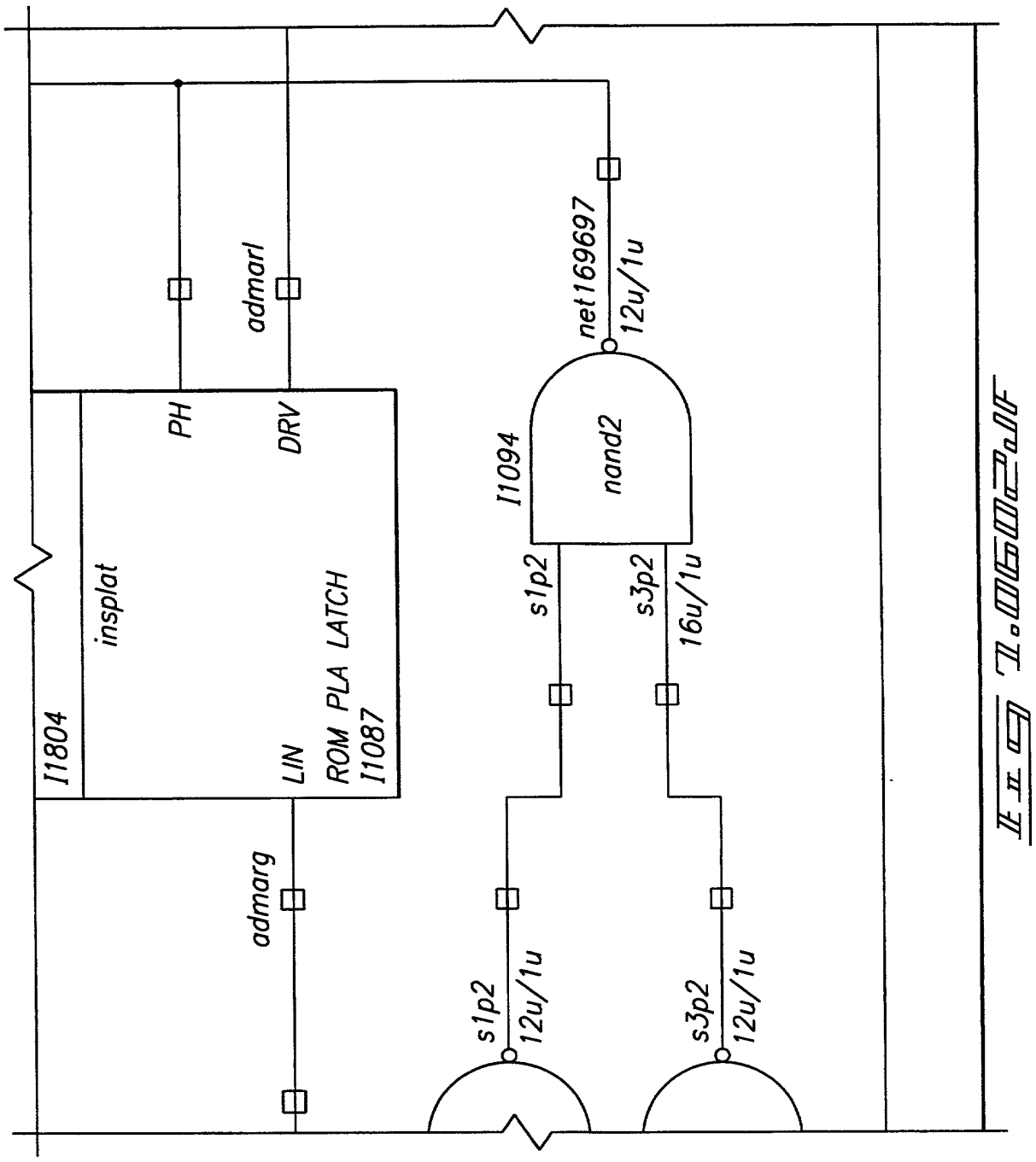
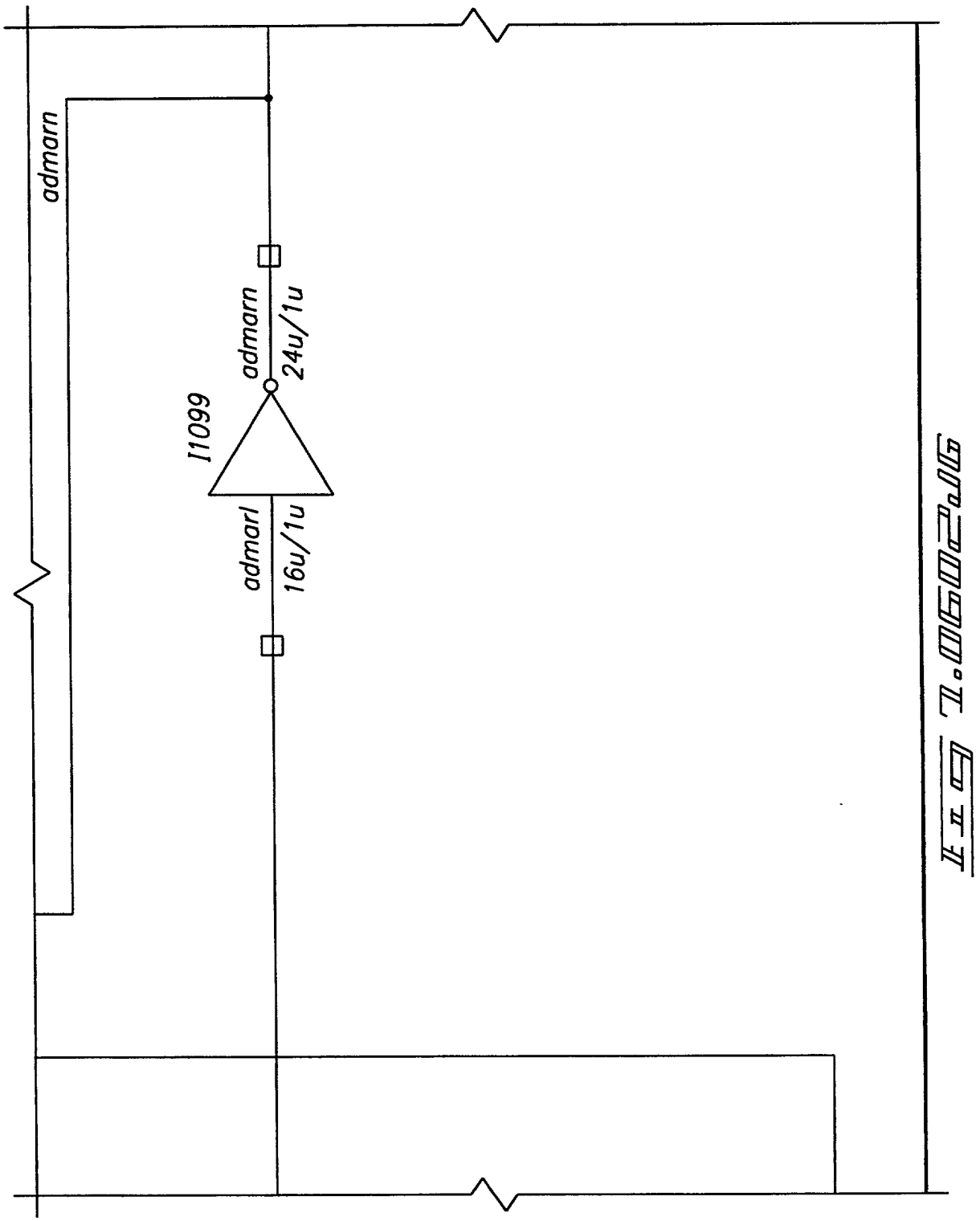


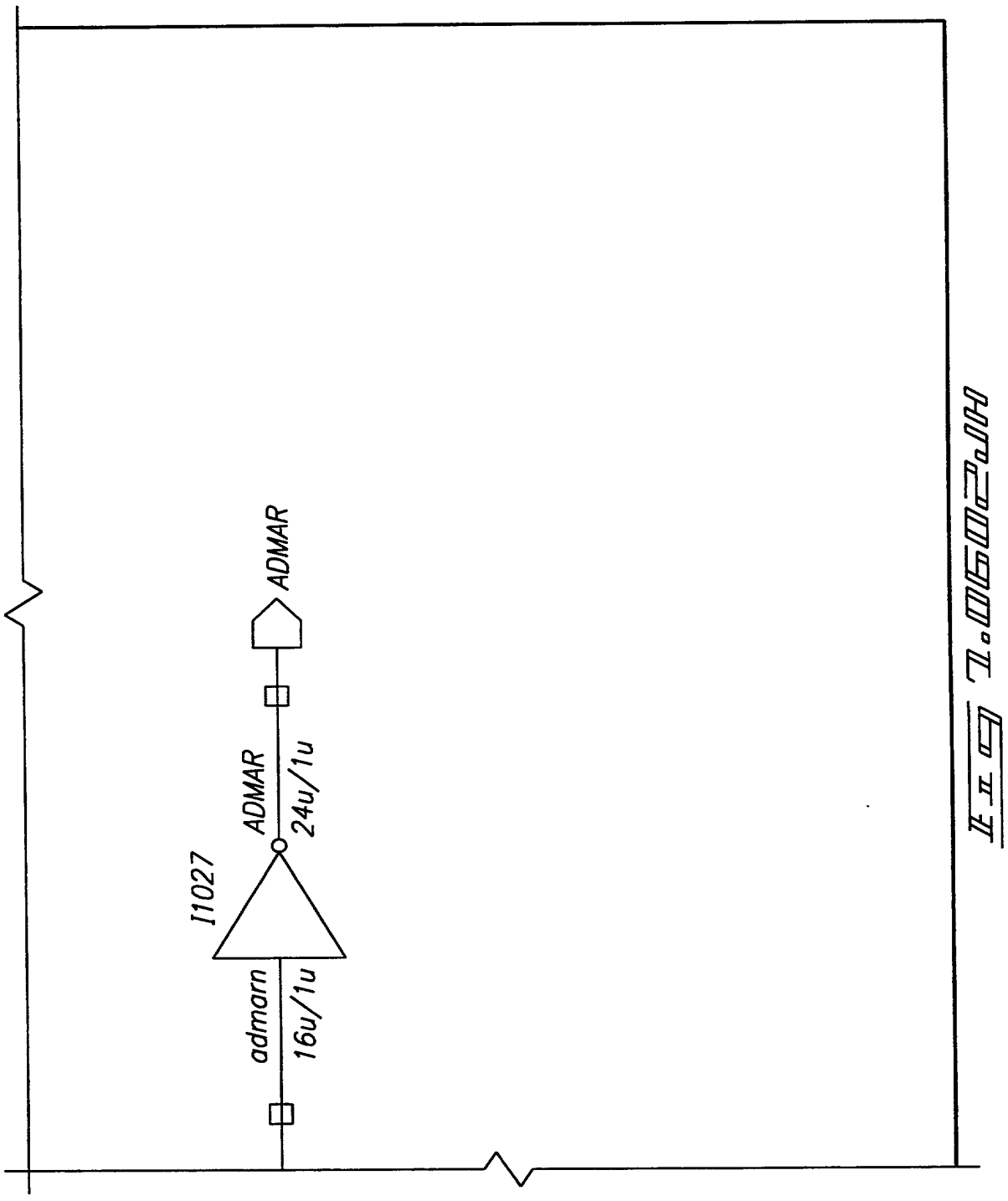
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Patent application publication



БГТ 1.090900.2019

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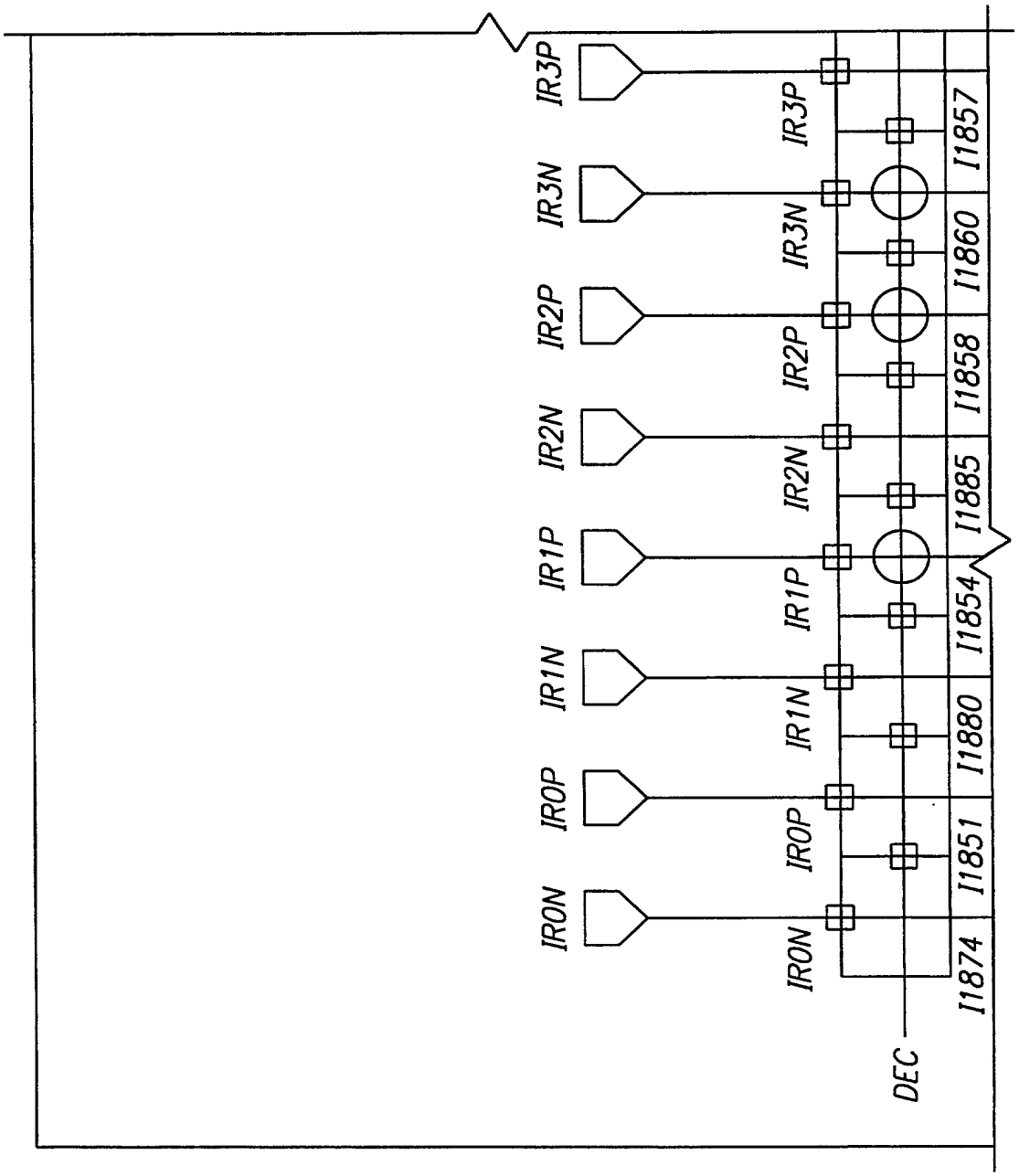


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Fig 7.0603



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EP 1 947 905 A1 (19.07.2008)

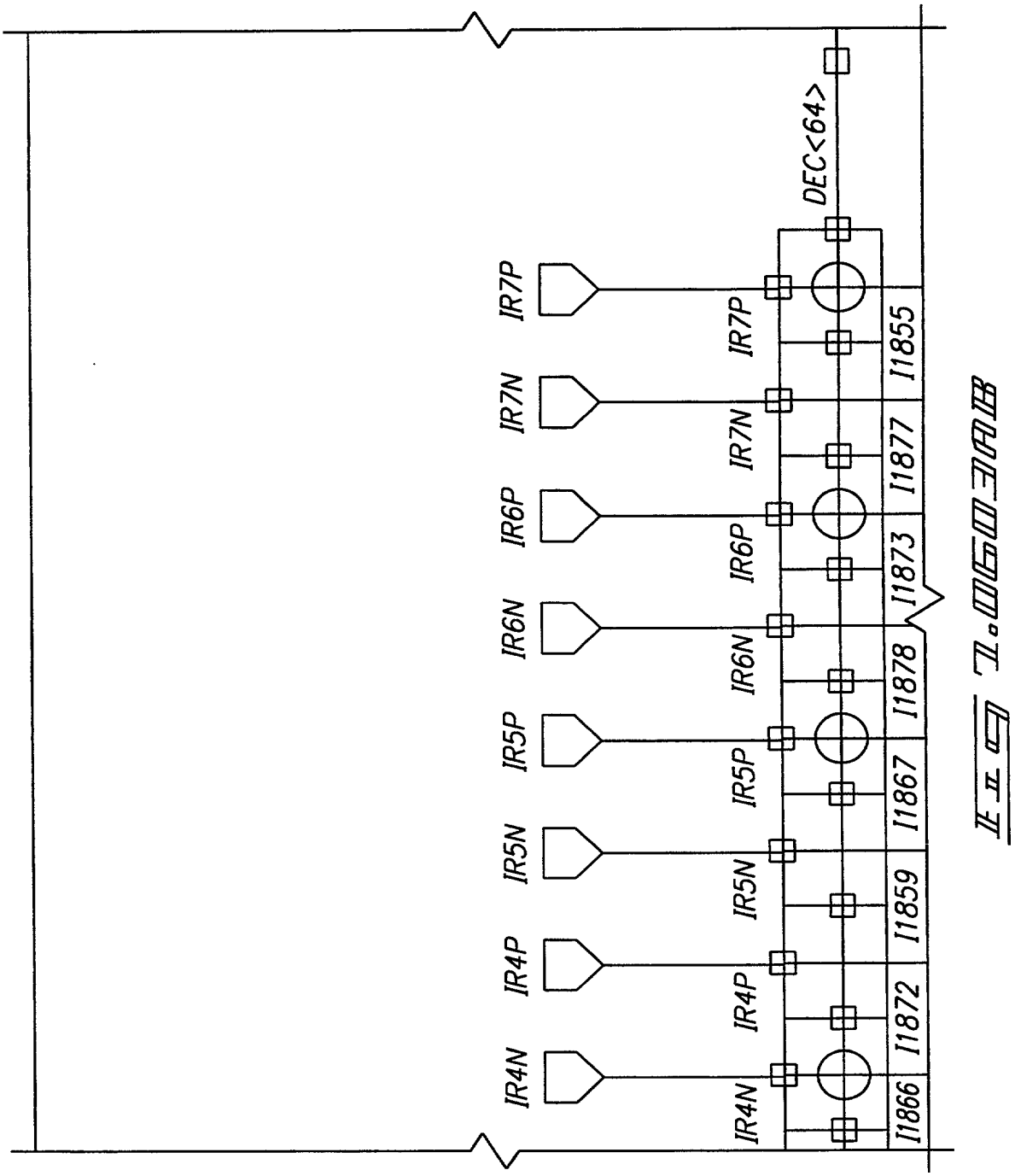

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FIG 3C

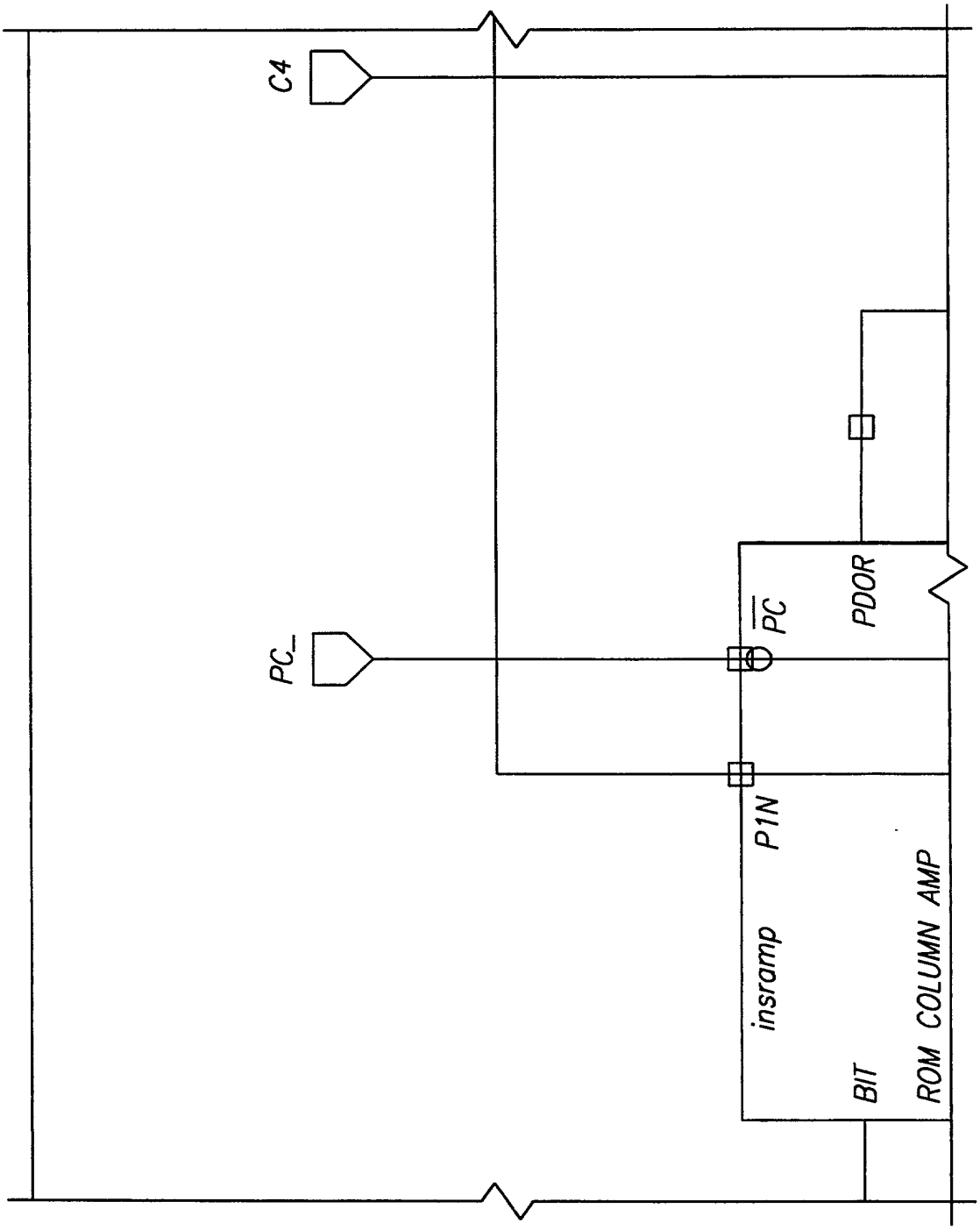


FIG 11

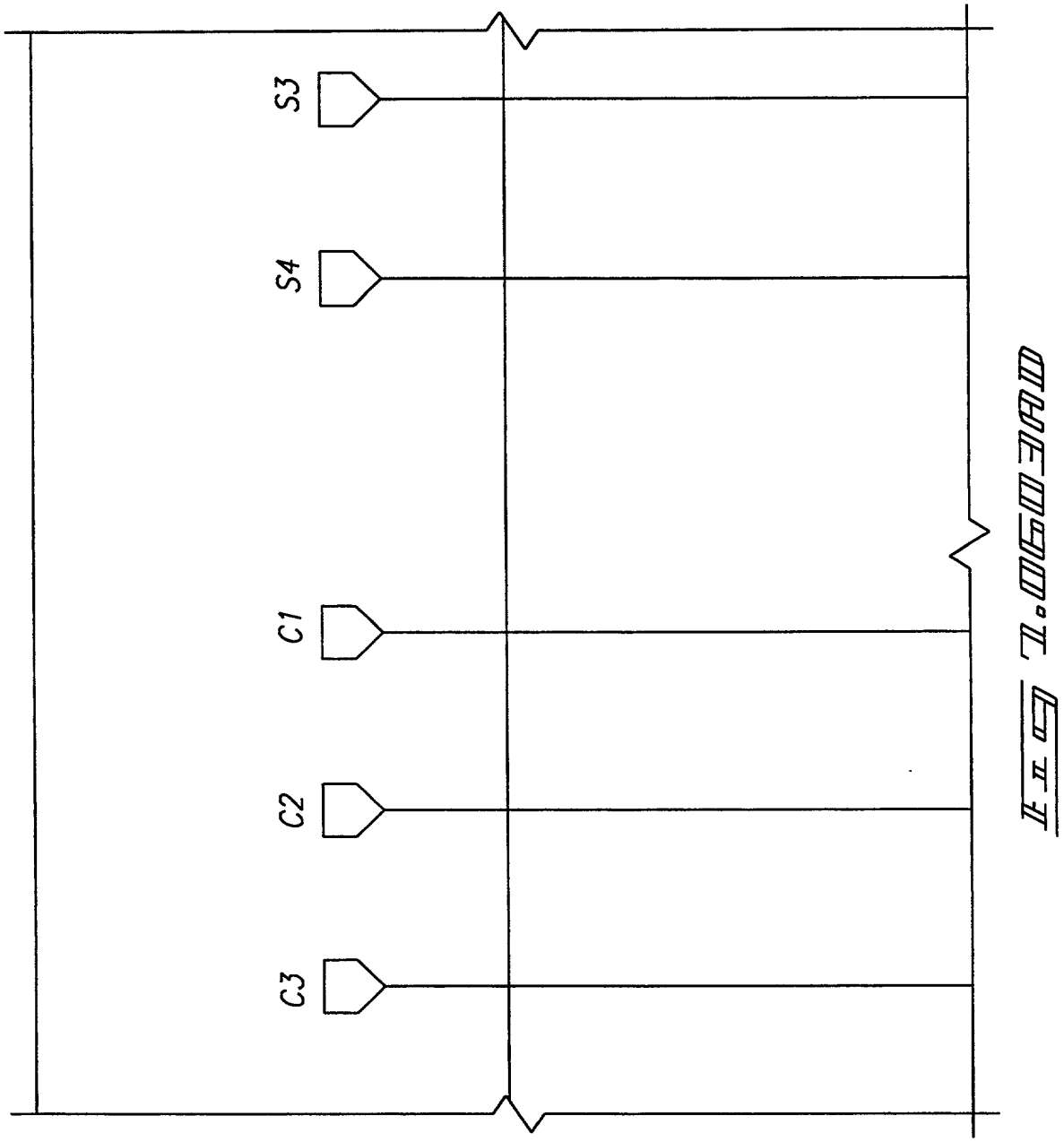


FIG 3

EP 1 541 551 A1 23-06-2005

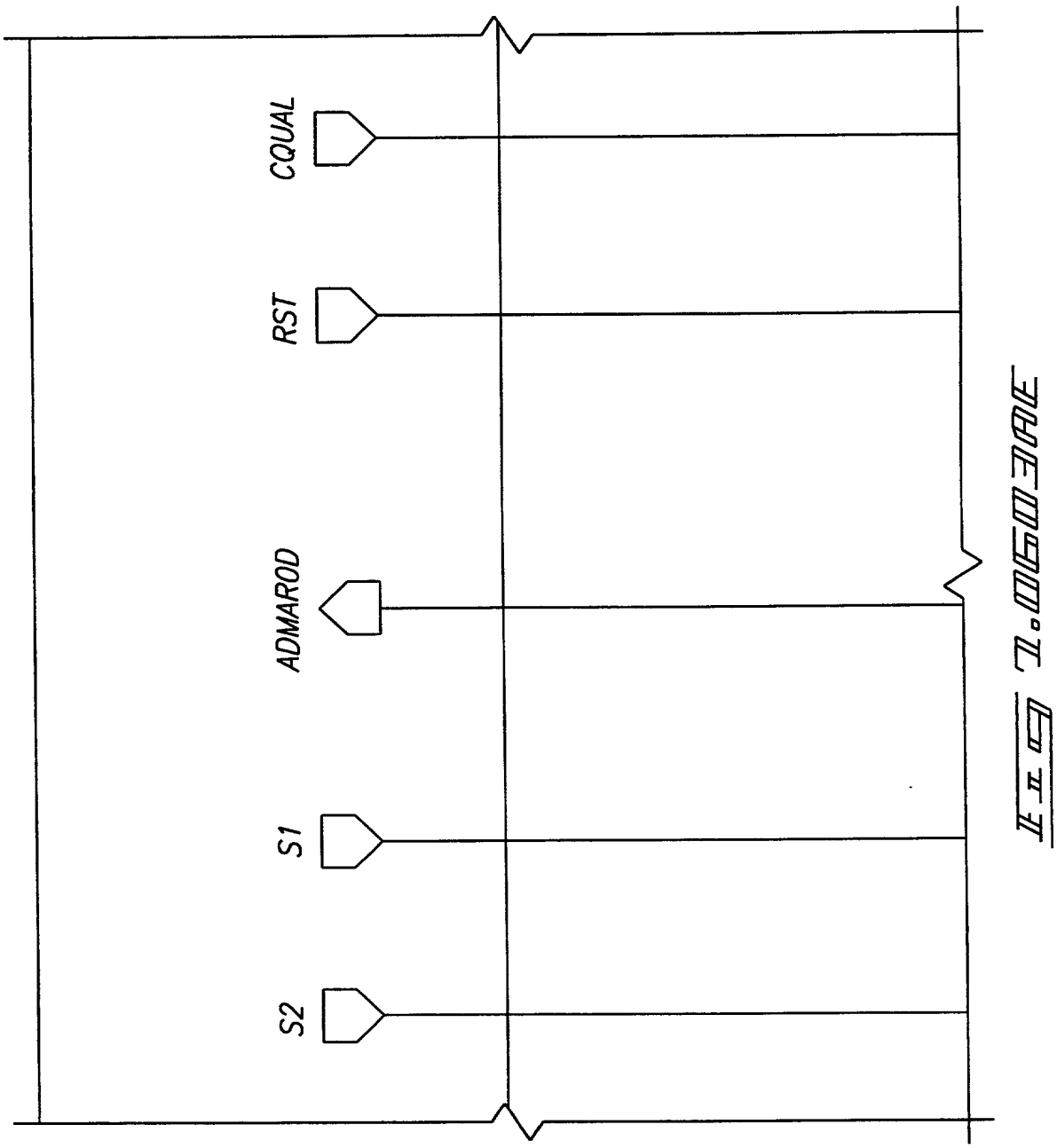
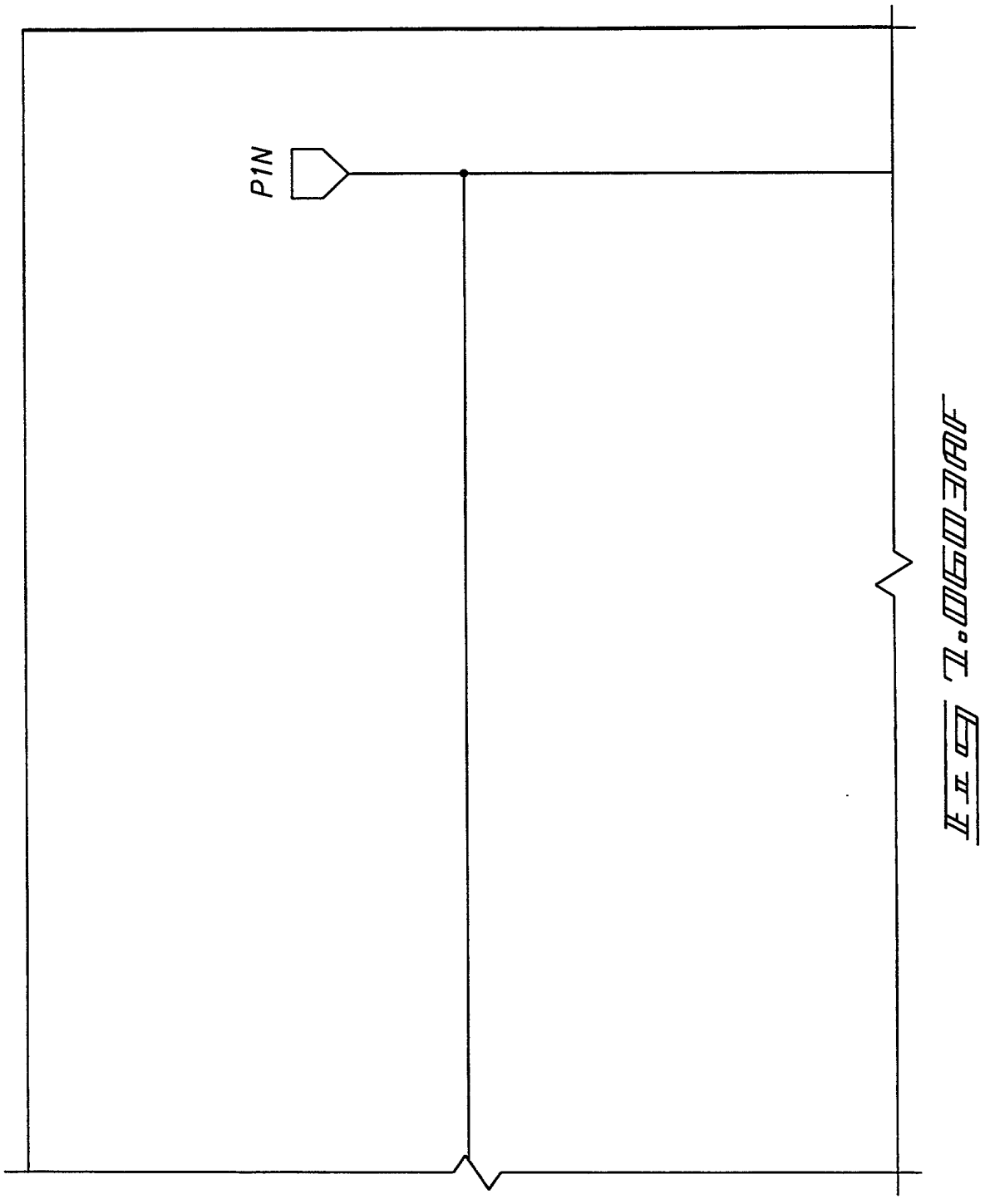


FIG 5 (SHEET 1 OF 1)

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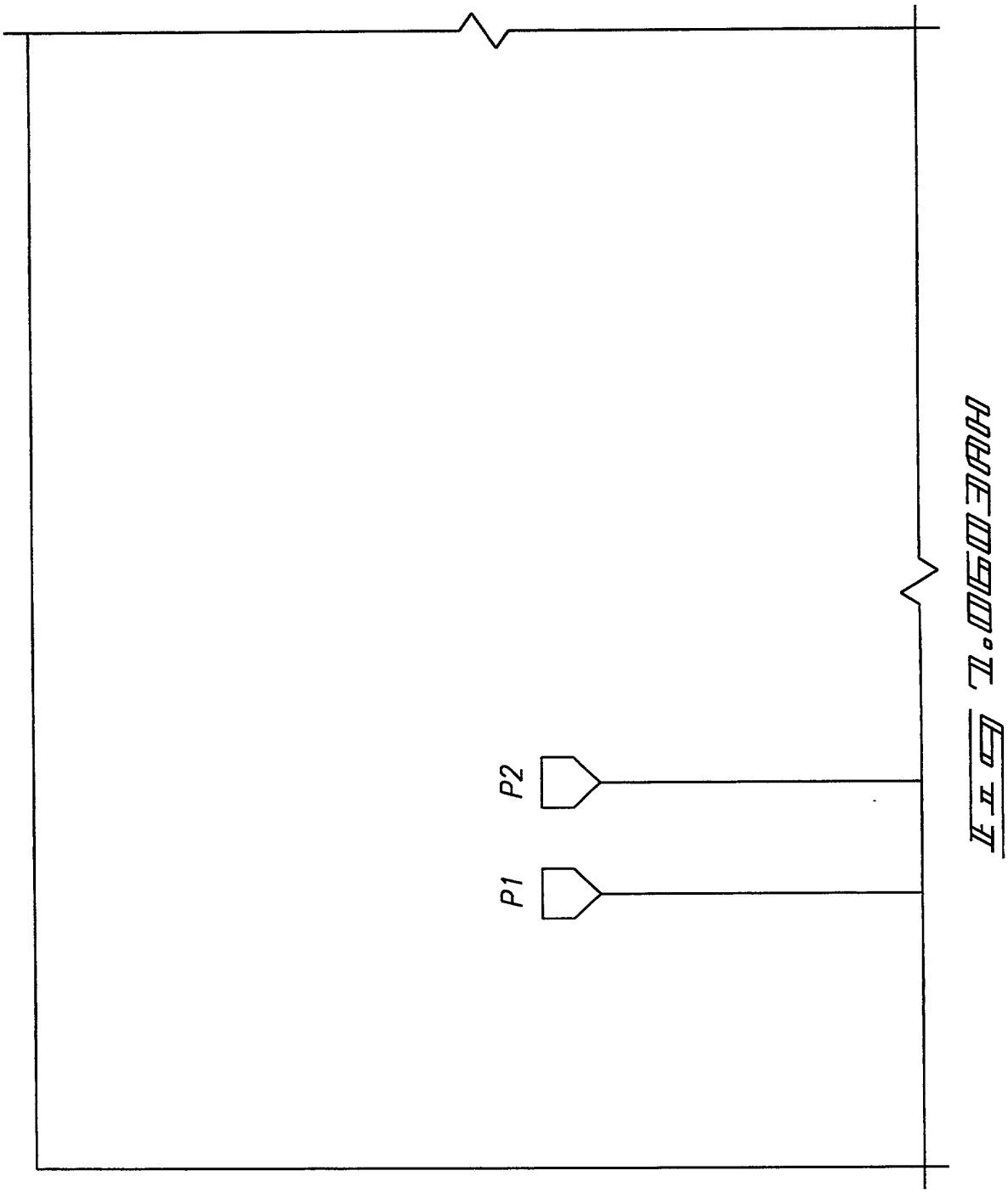
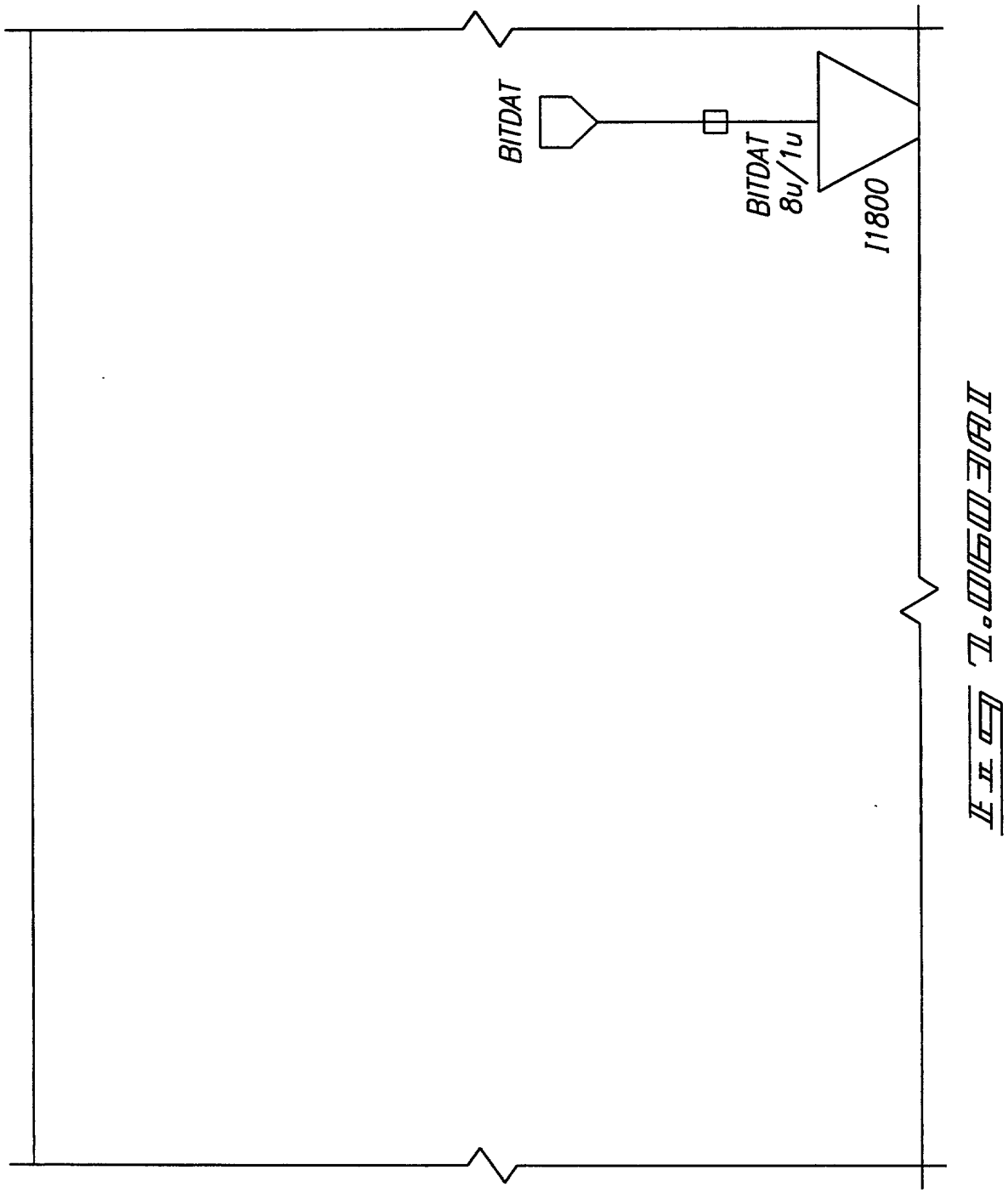
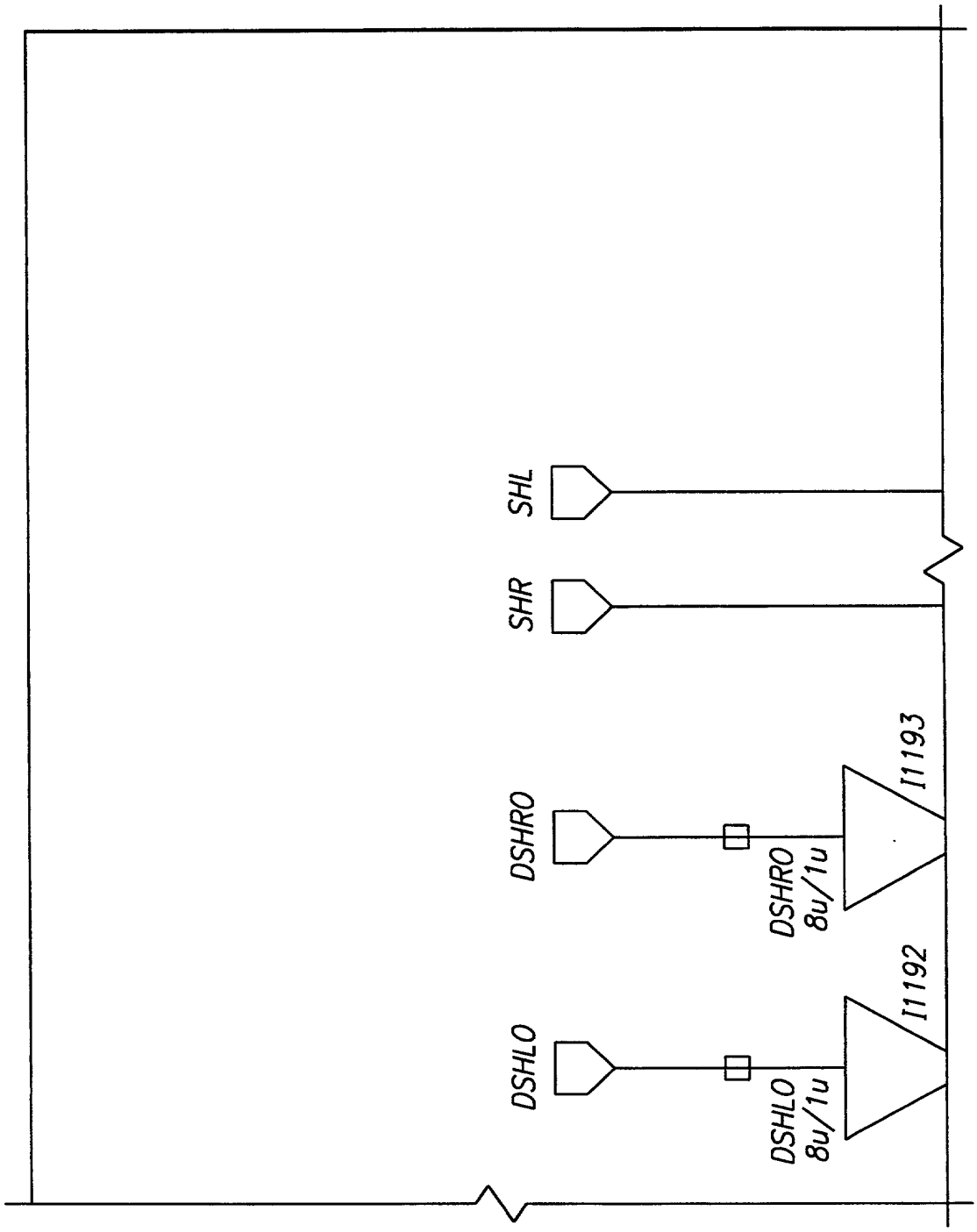


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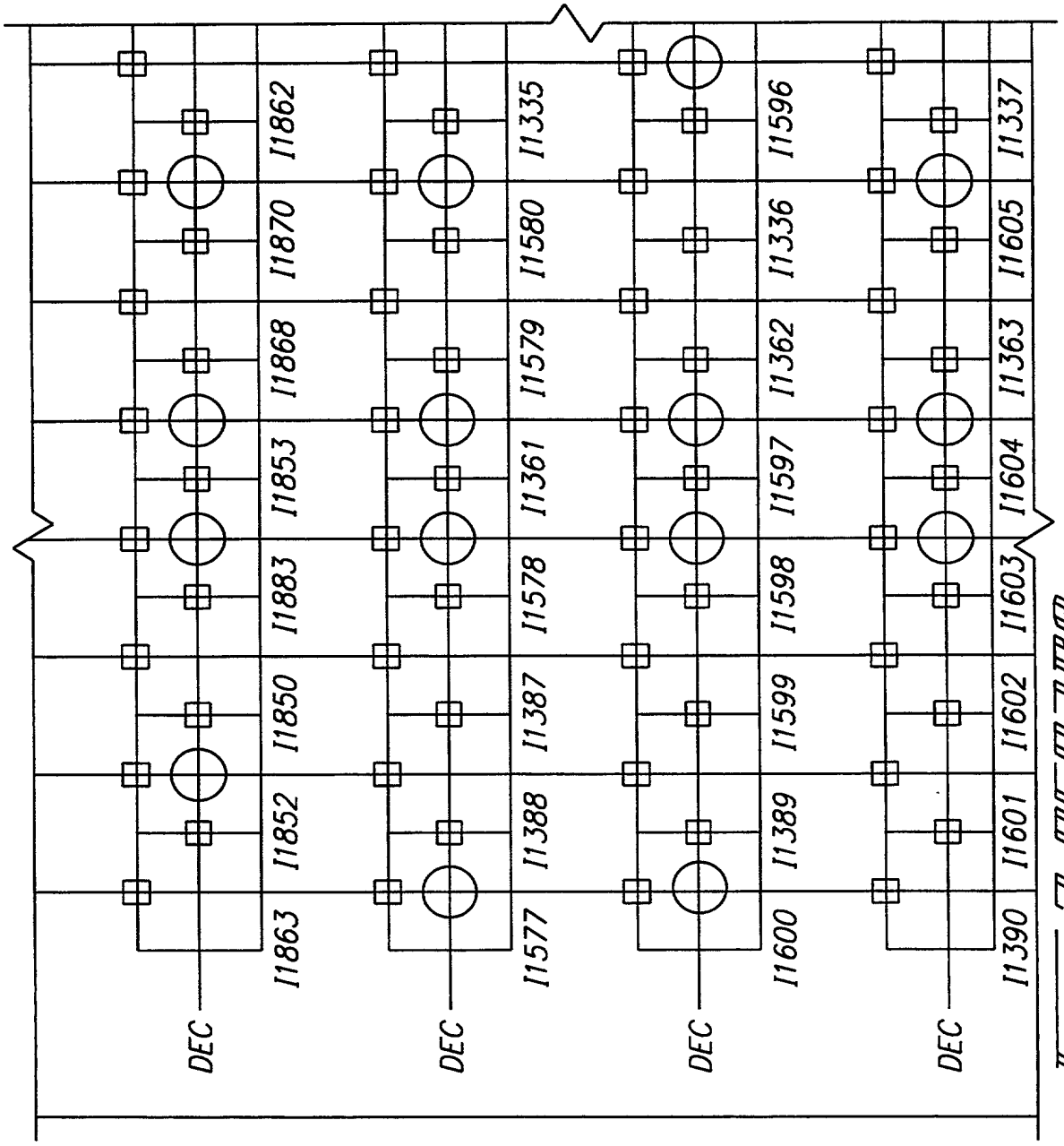


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EP 1 560 250 A2 20050803



Фиг. 1

Patent Application

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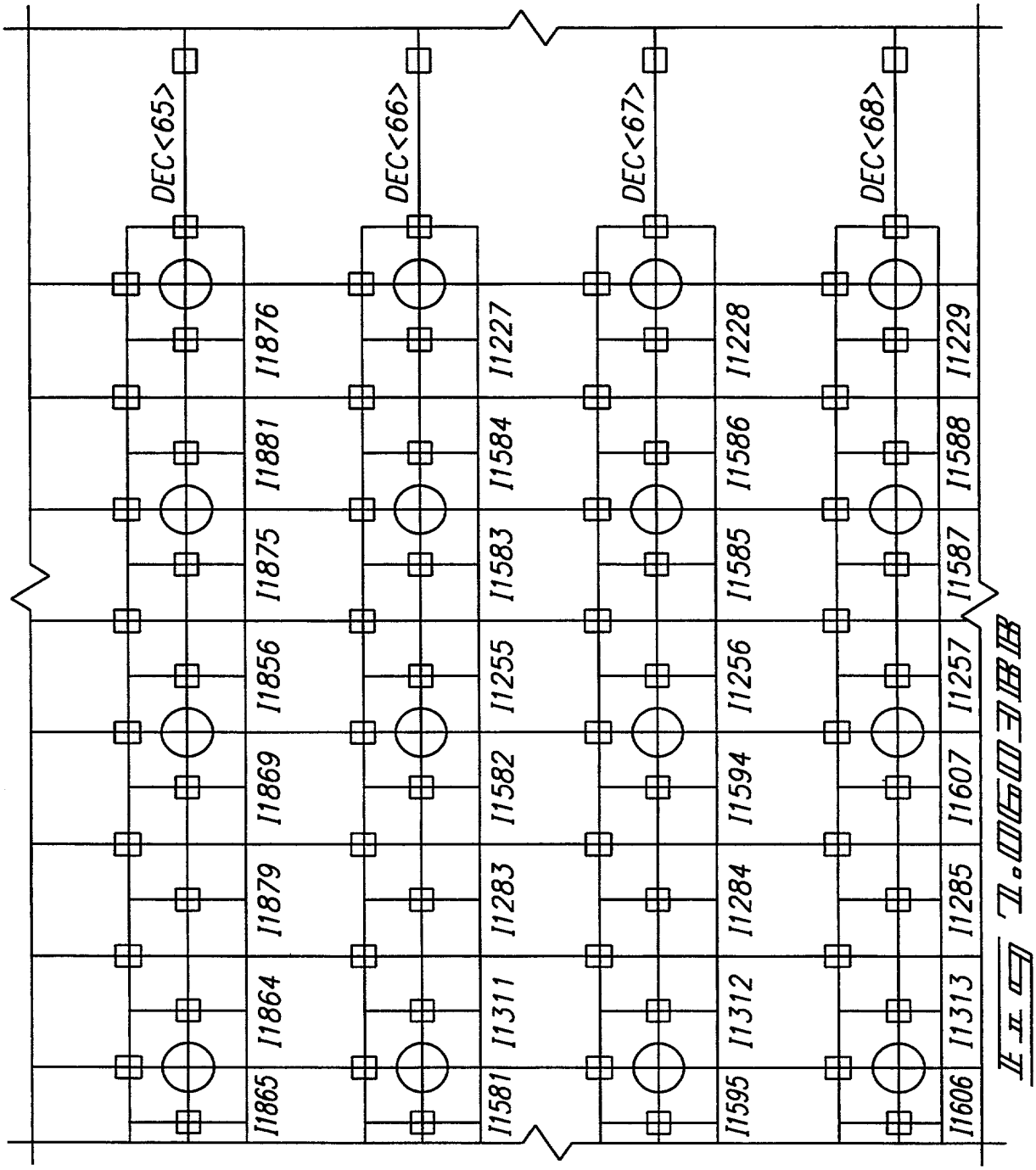
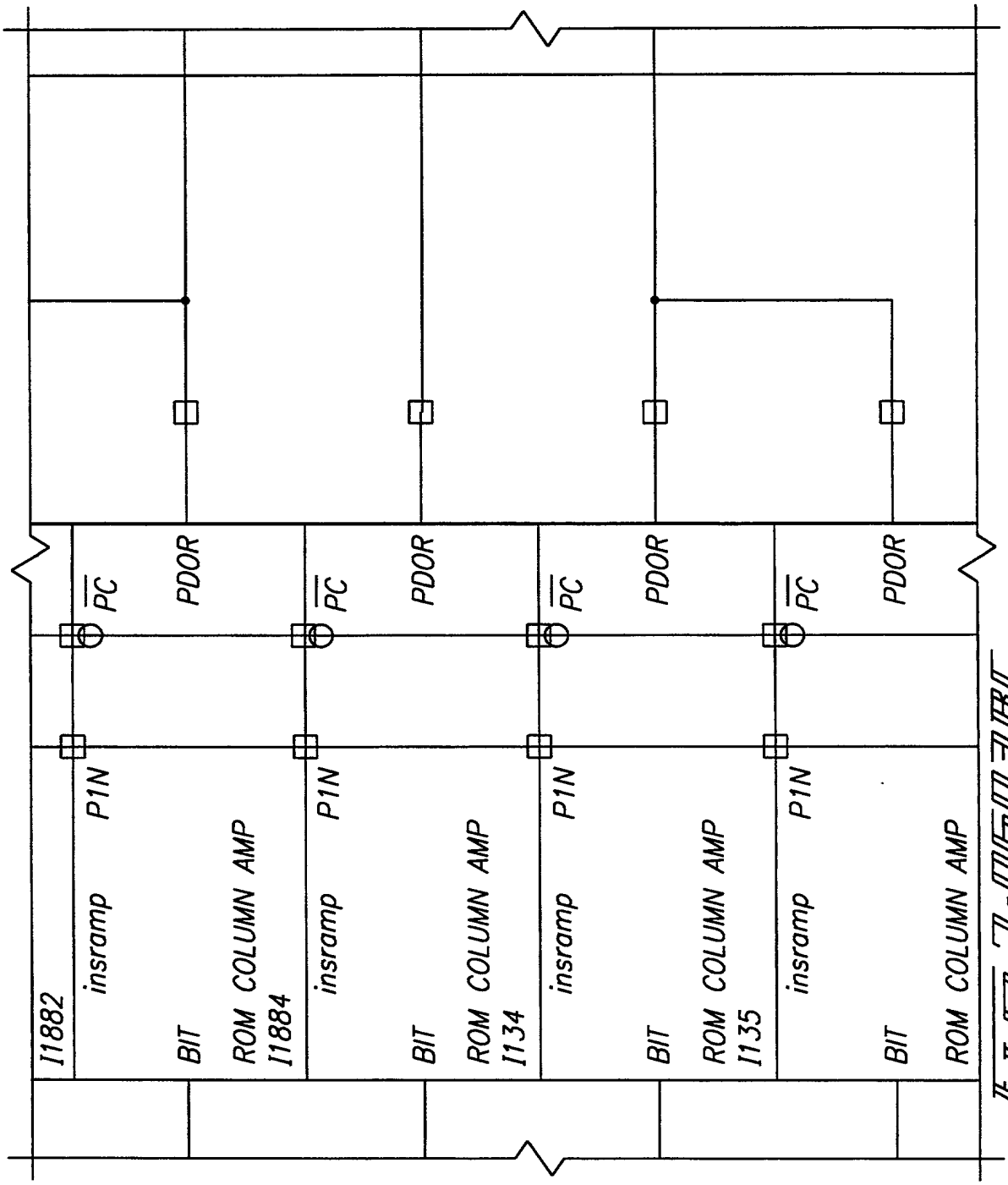
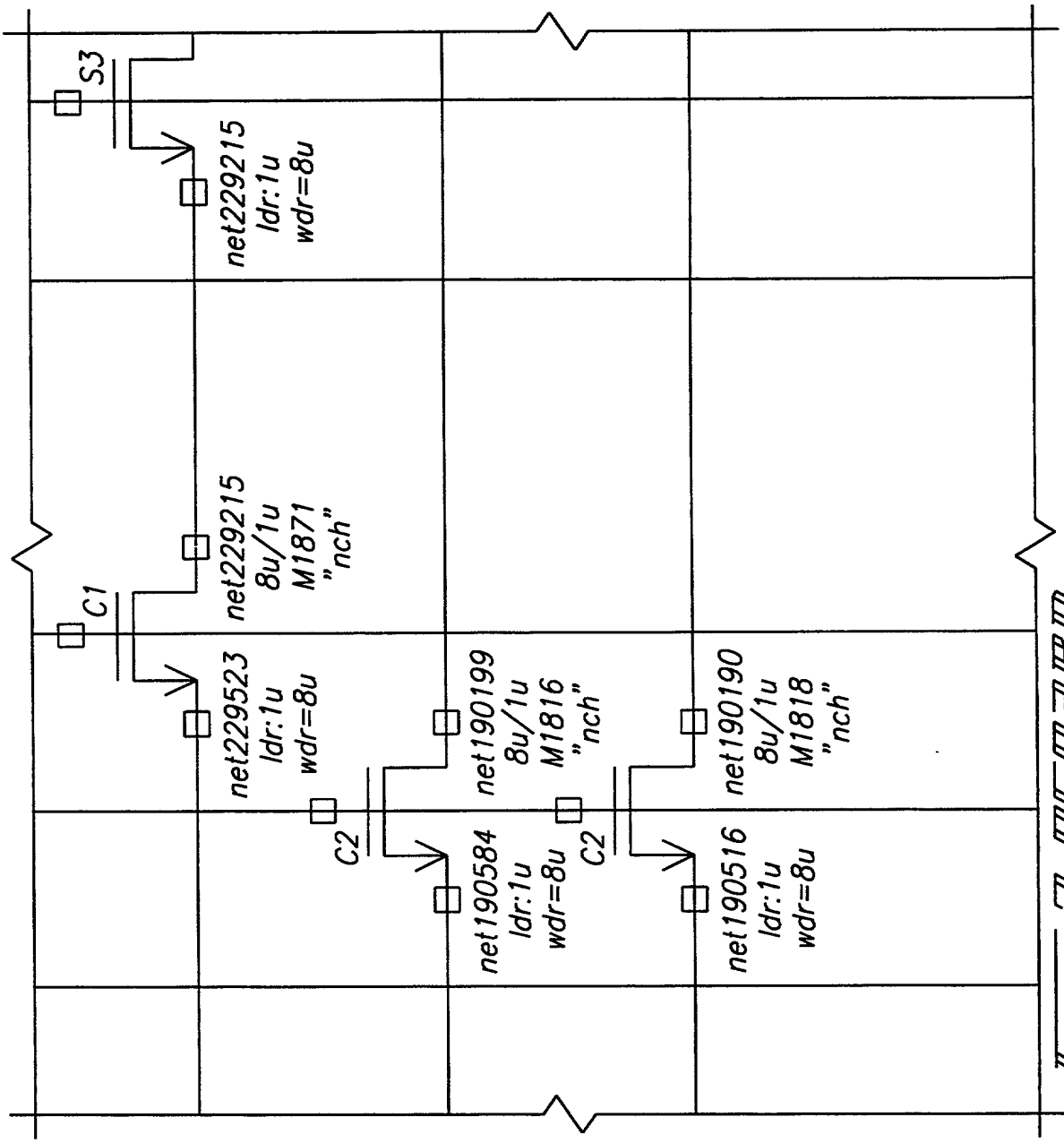


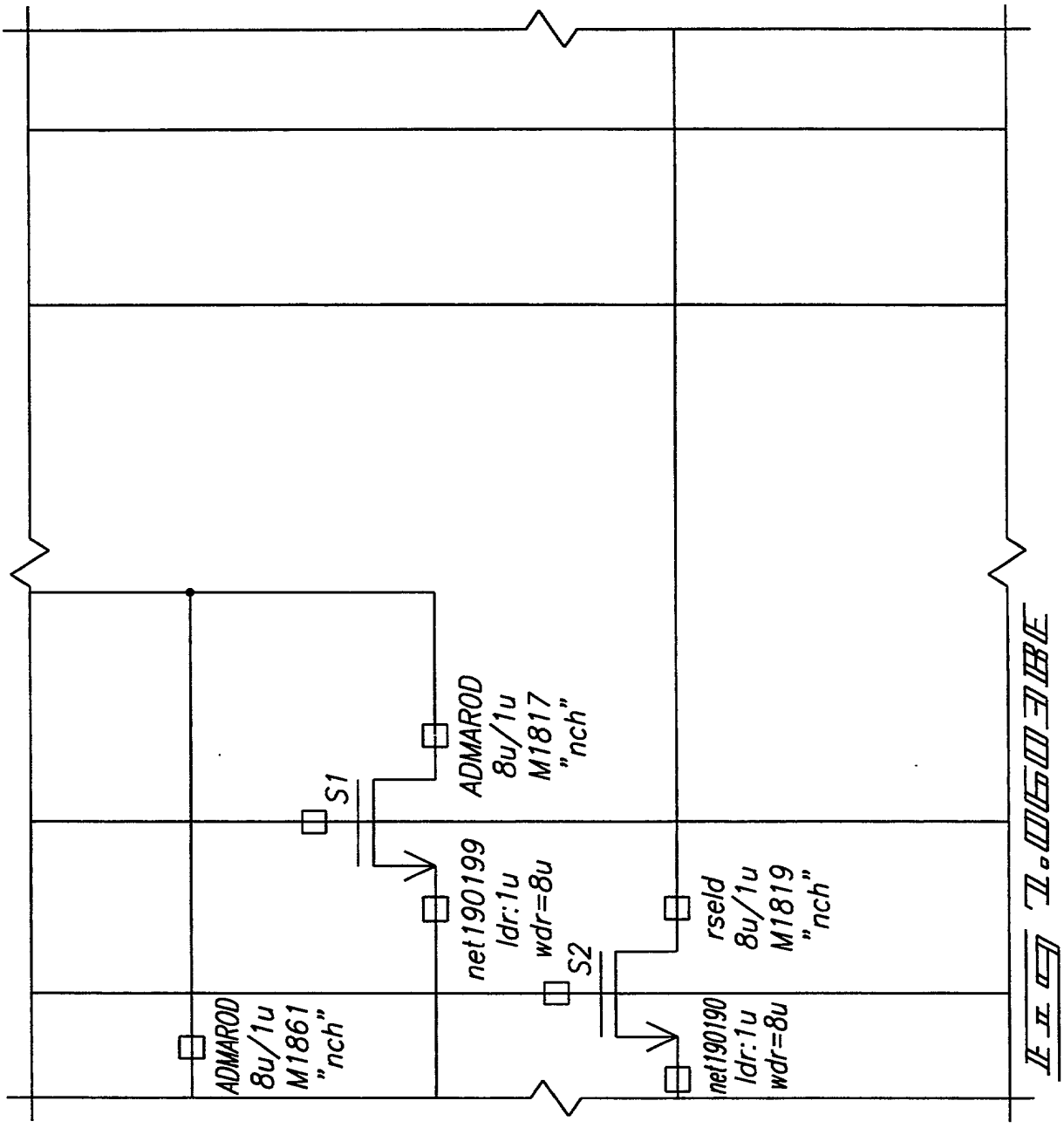
Fig. 11

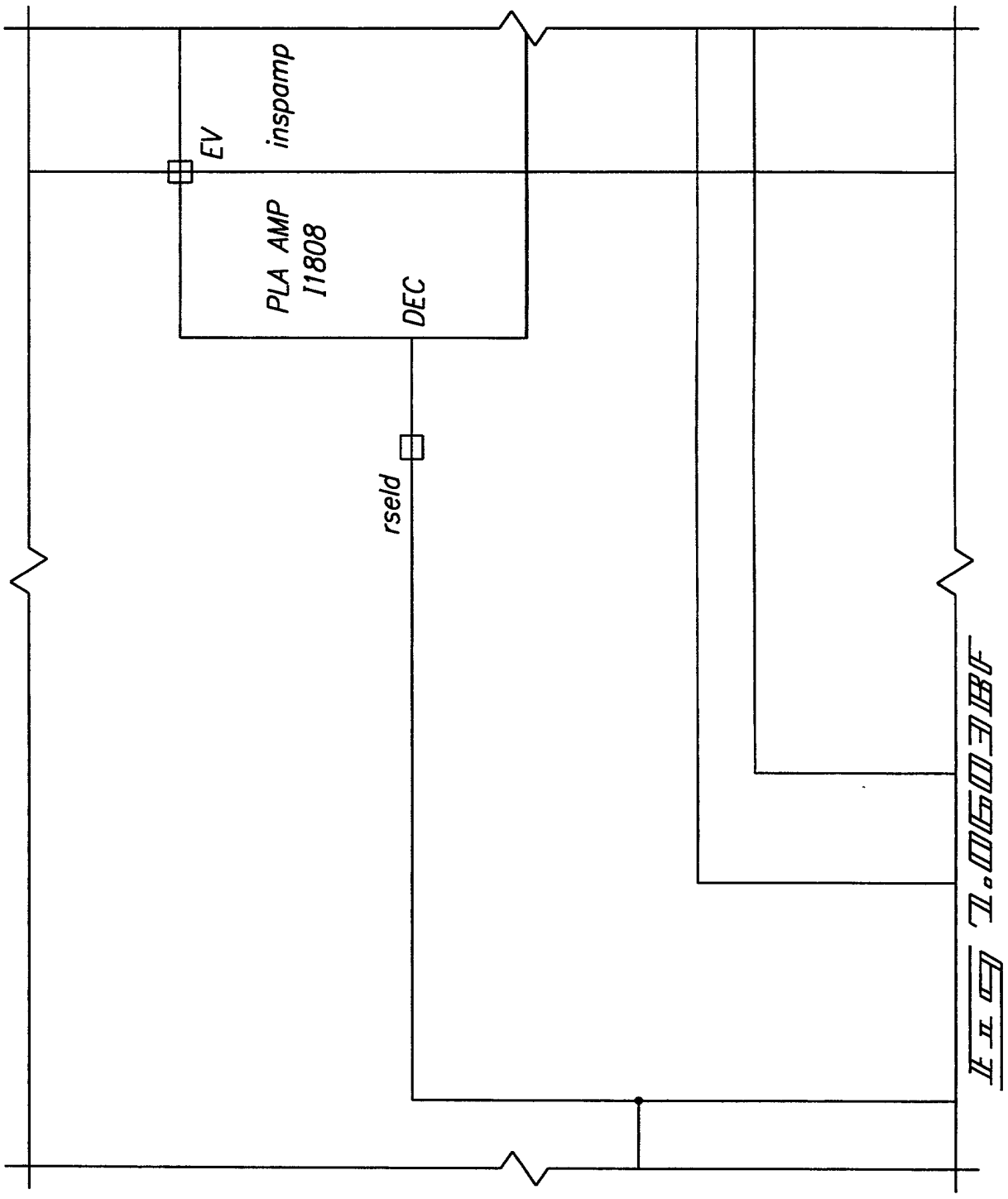


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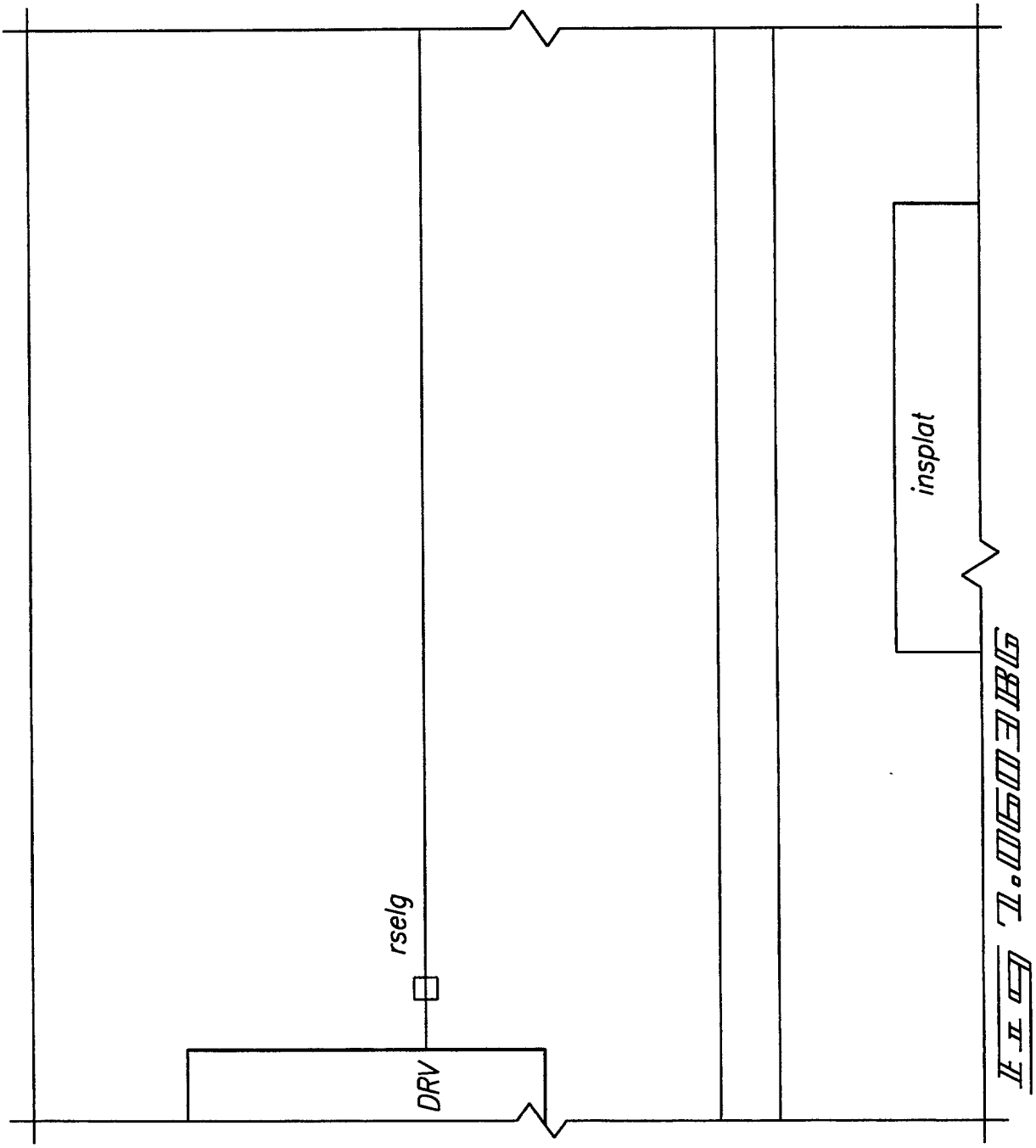

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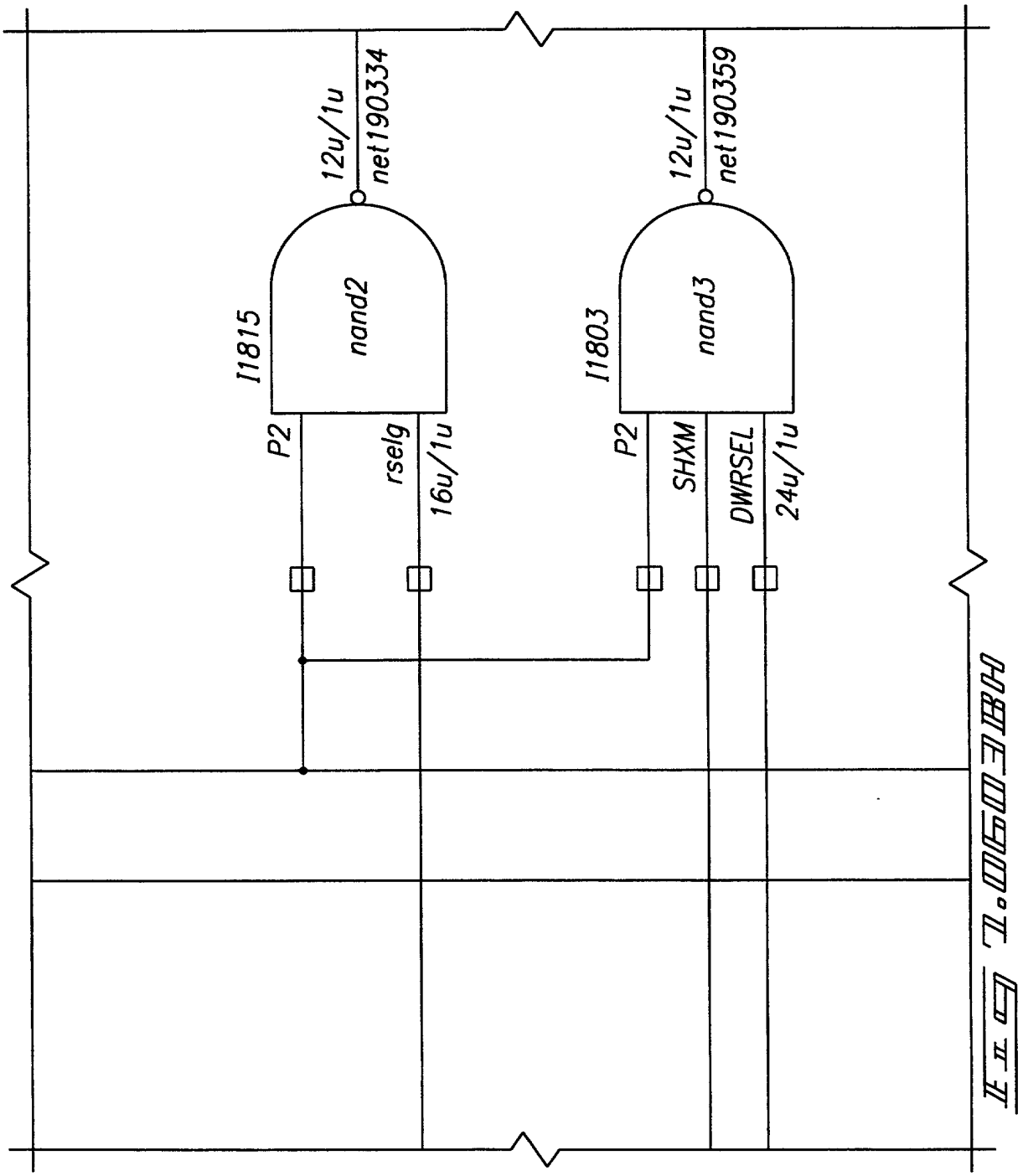
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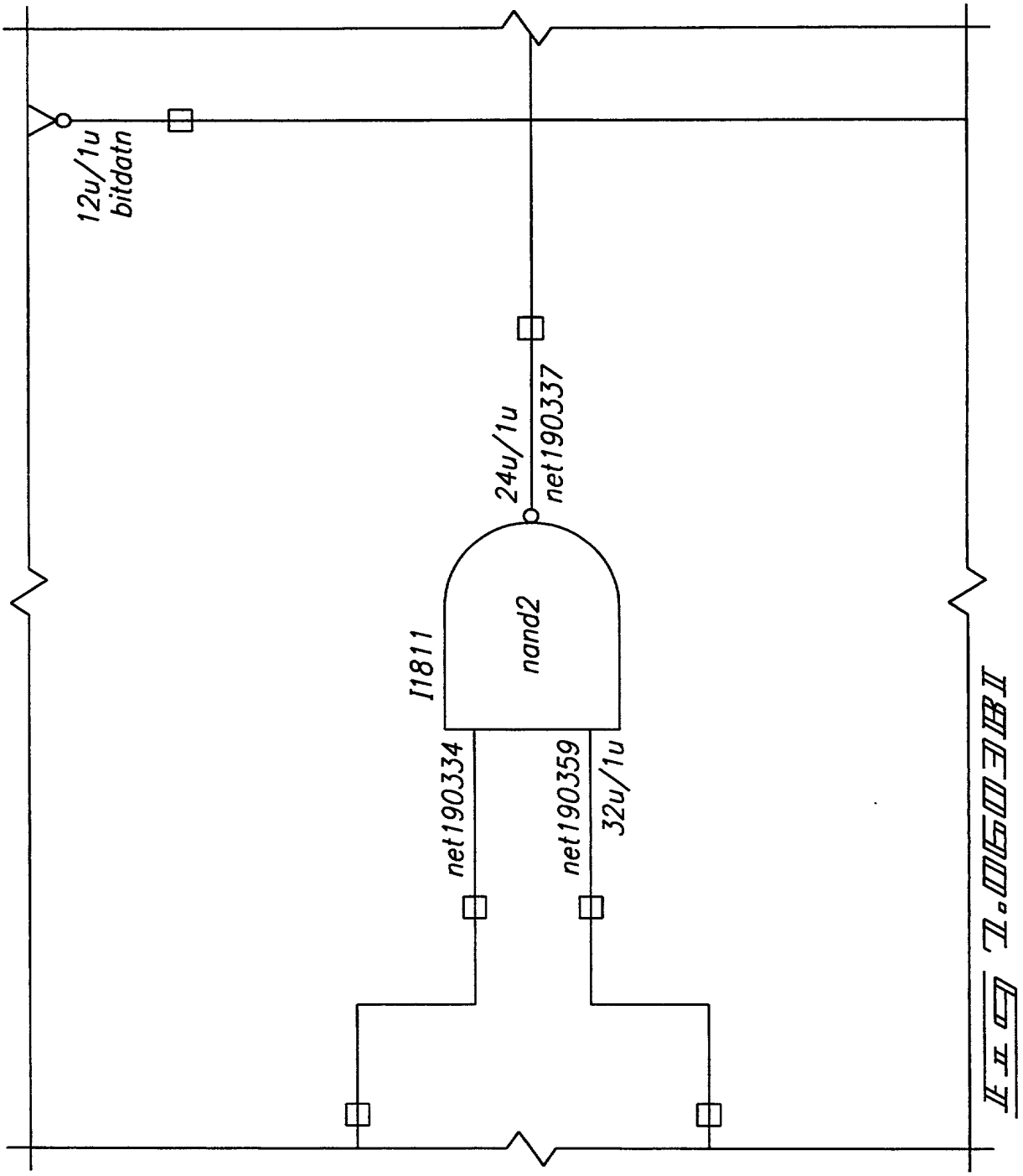
Patent Application Publication


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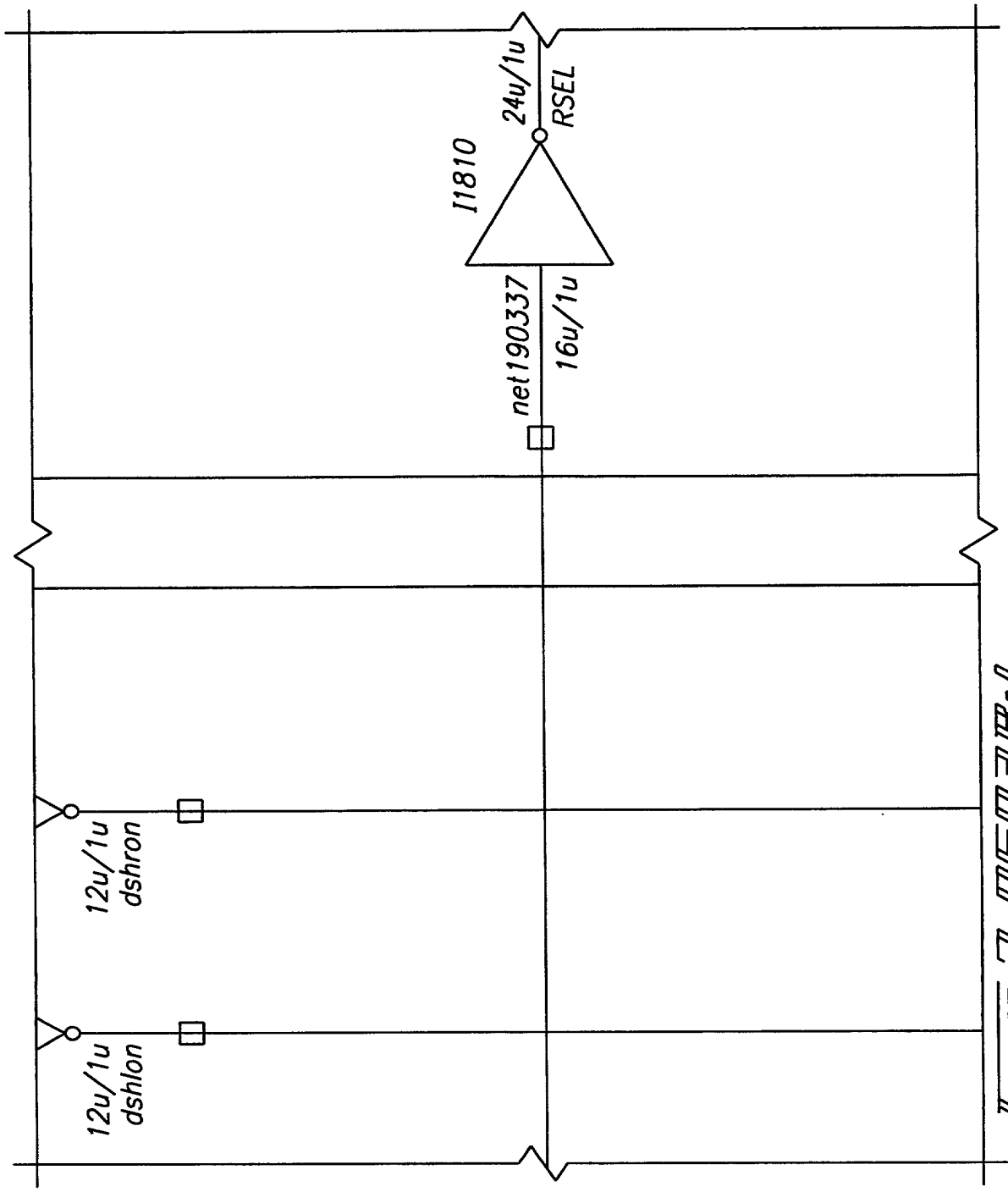


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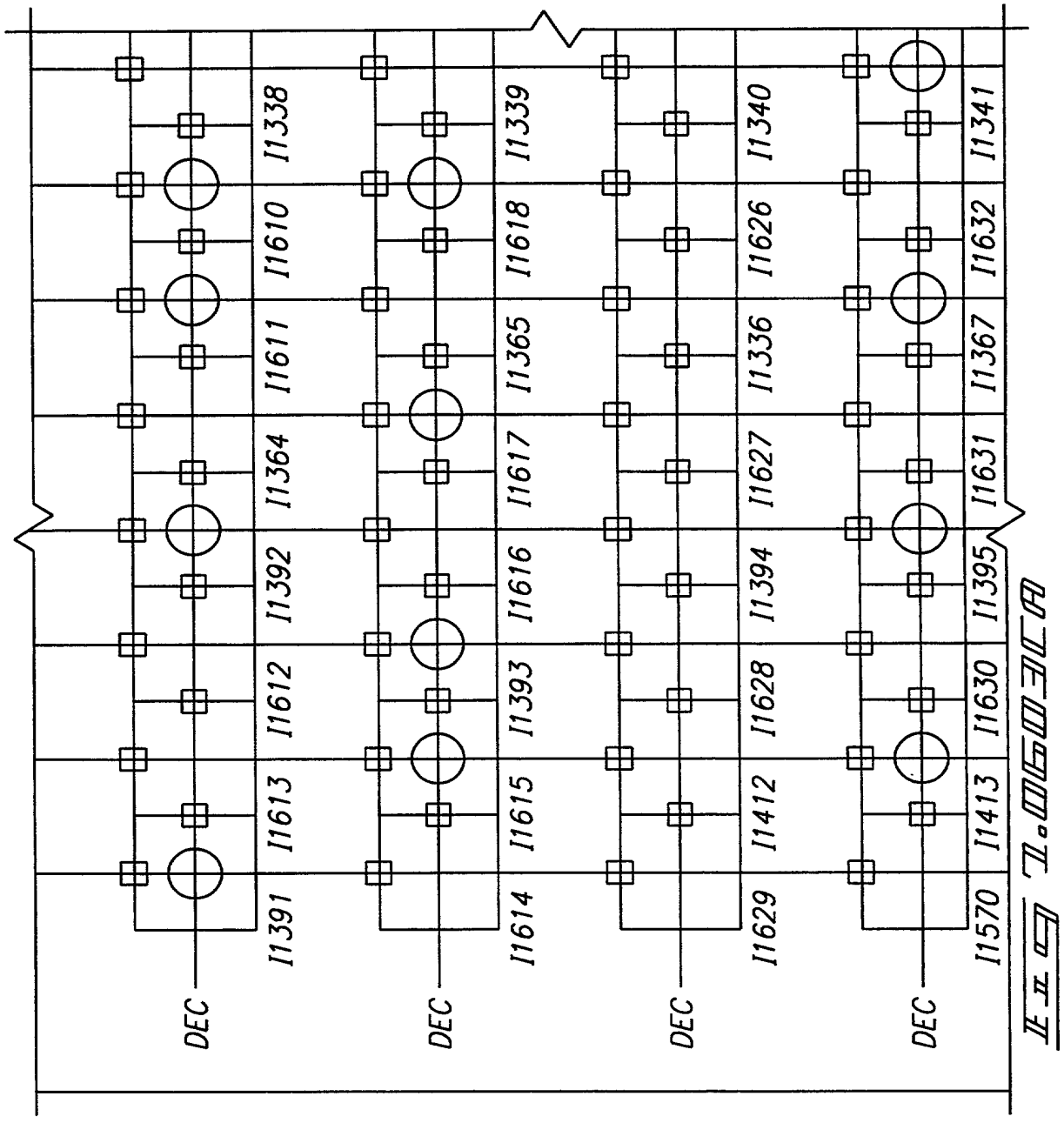


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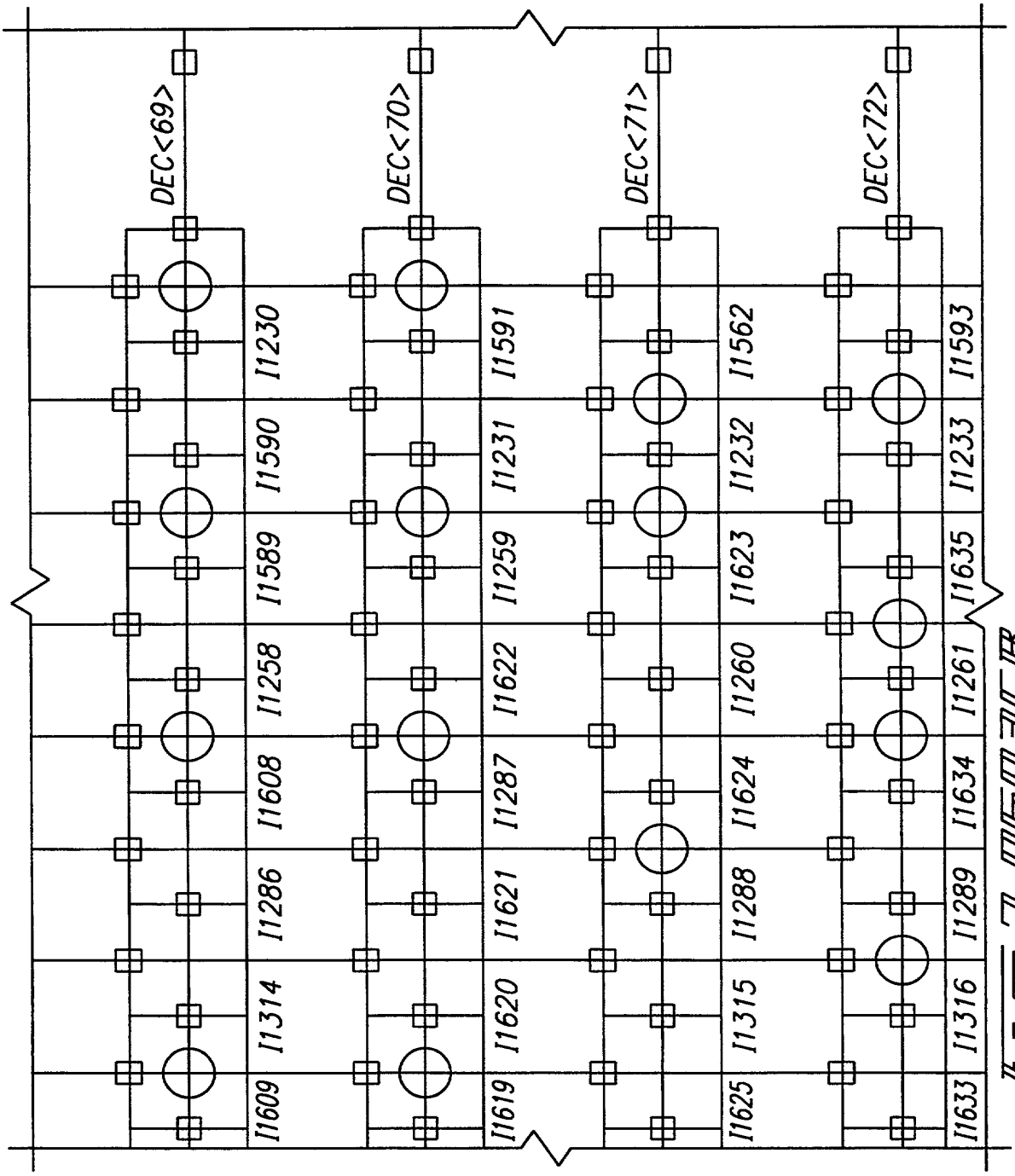


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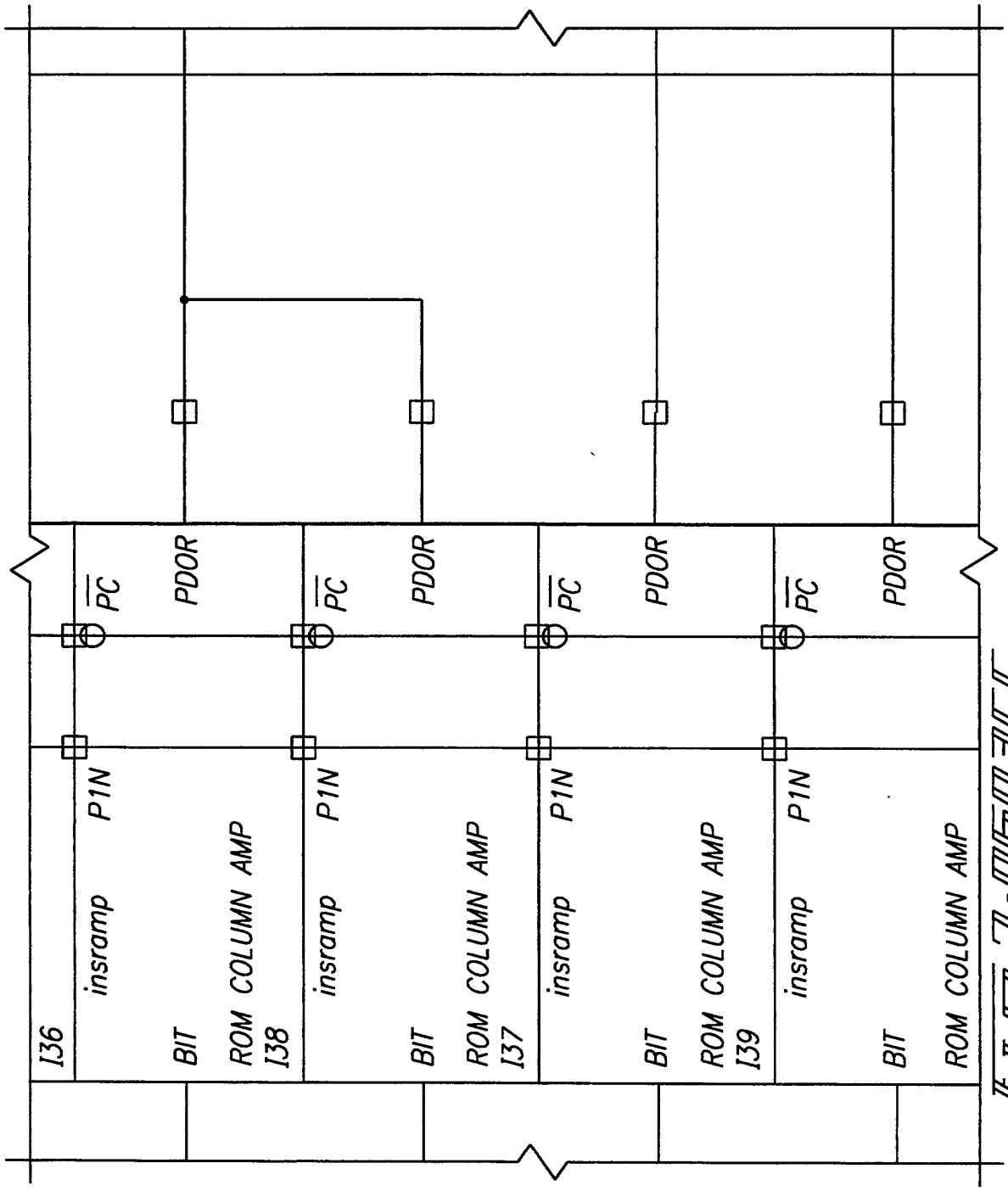
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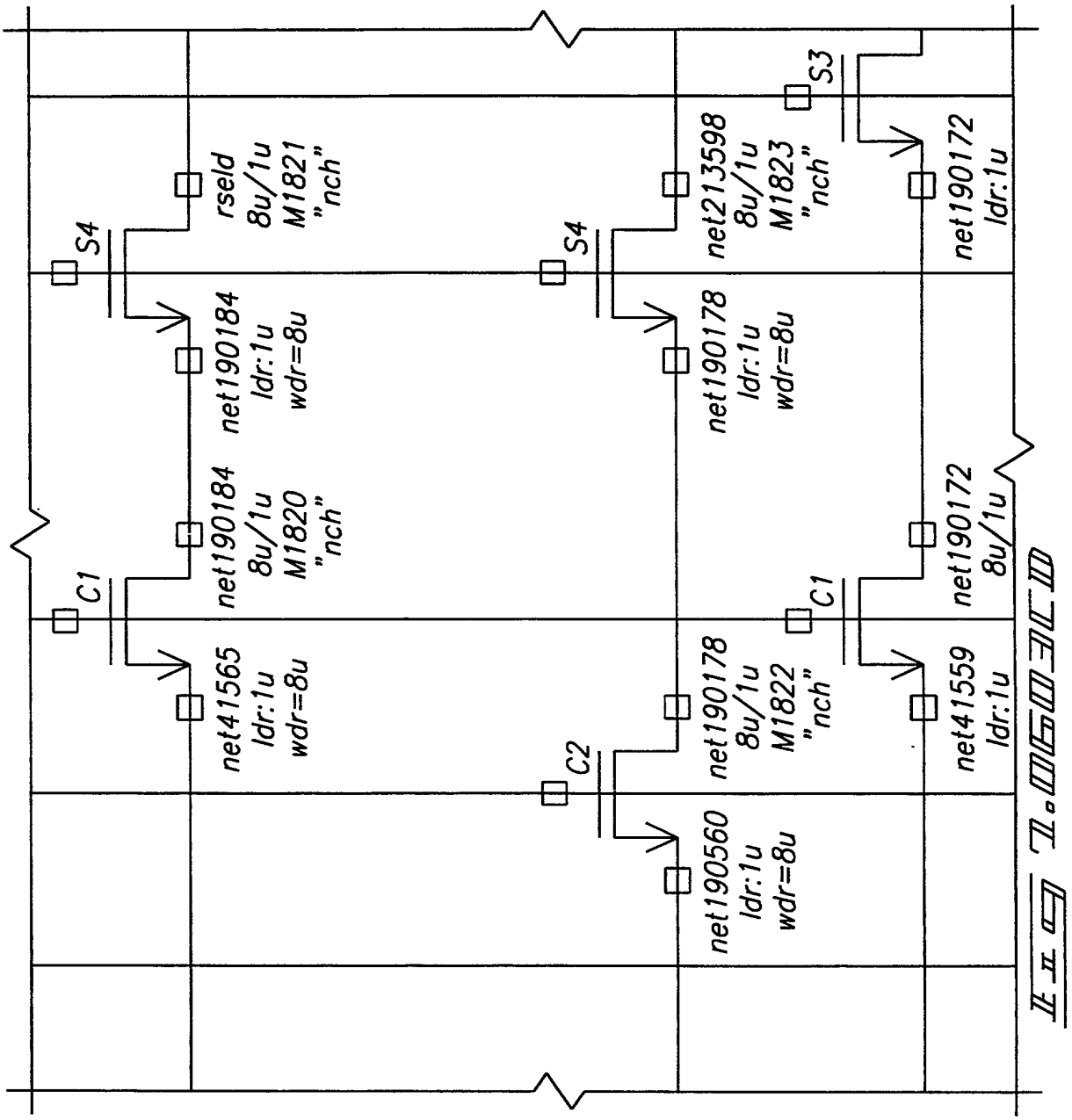
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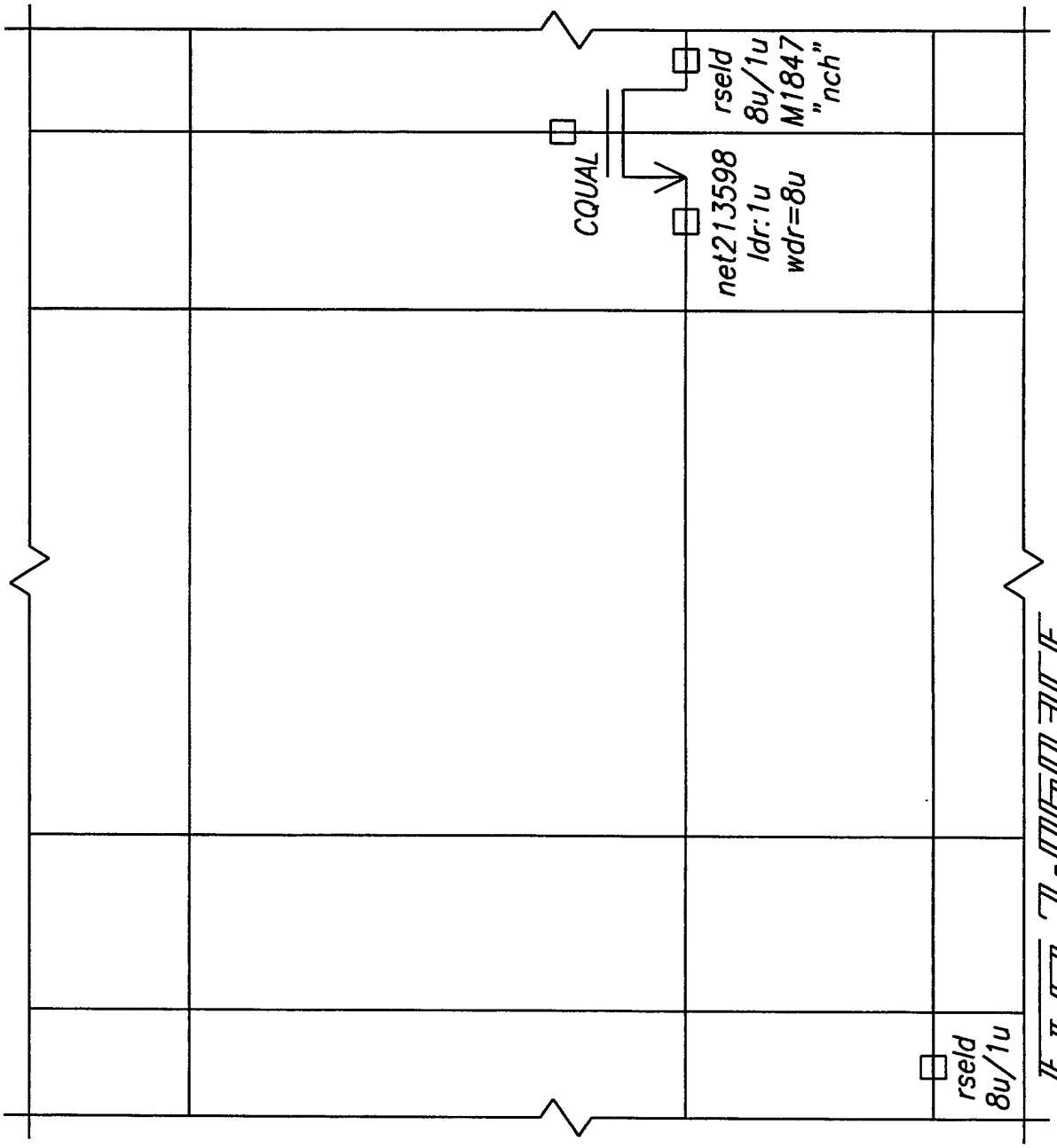


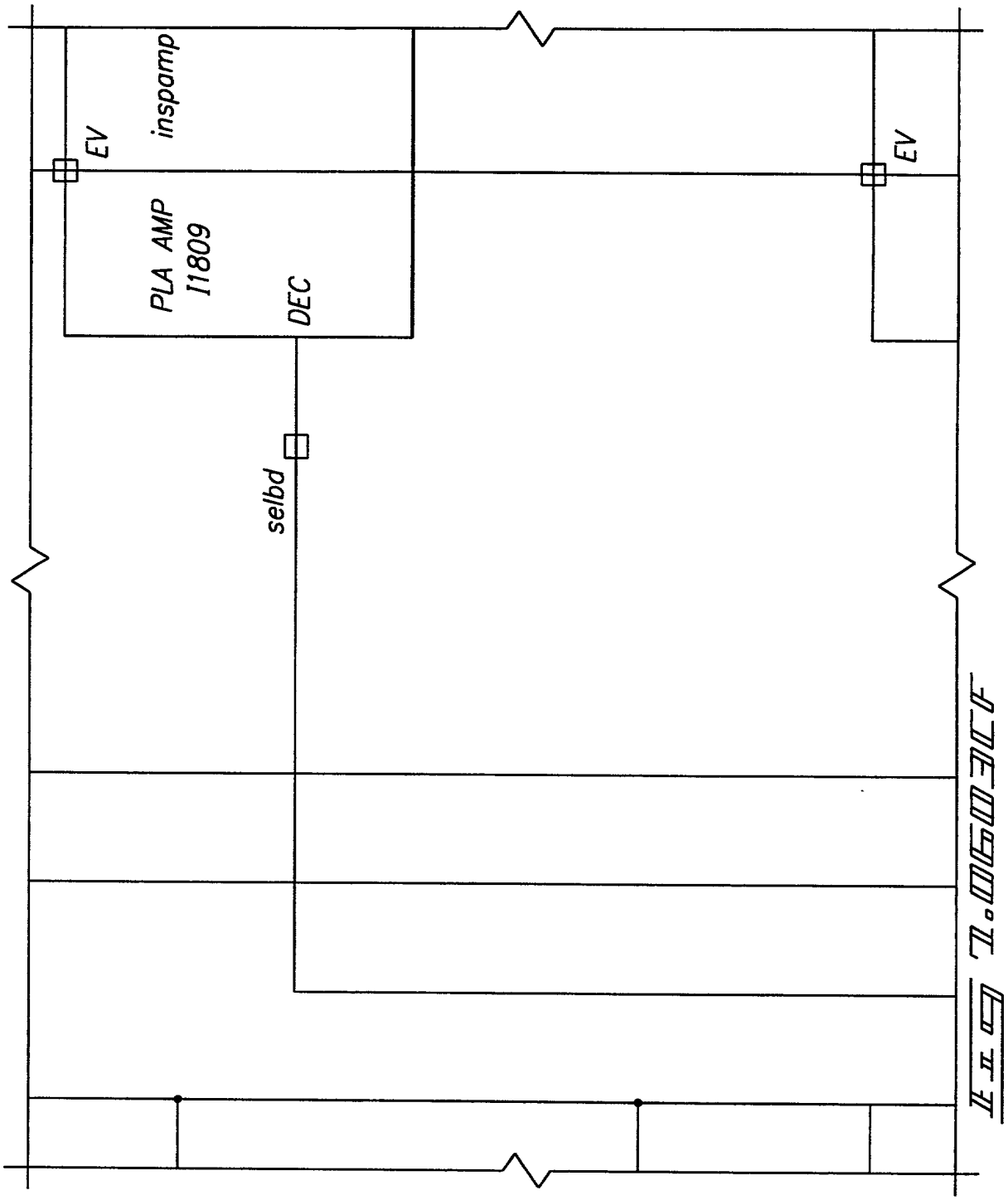
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EP 1 251 520 A2 23.10.2002

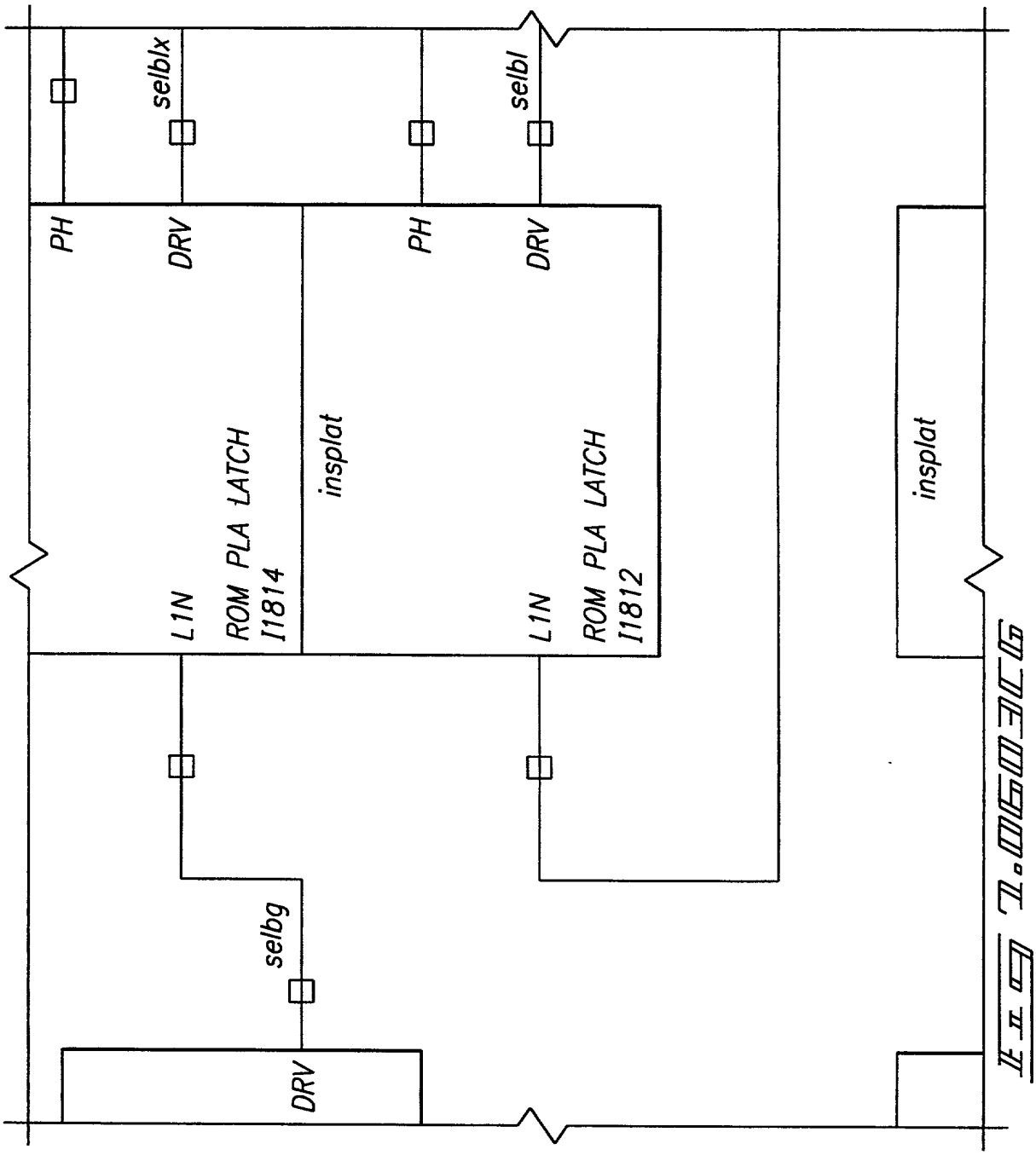
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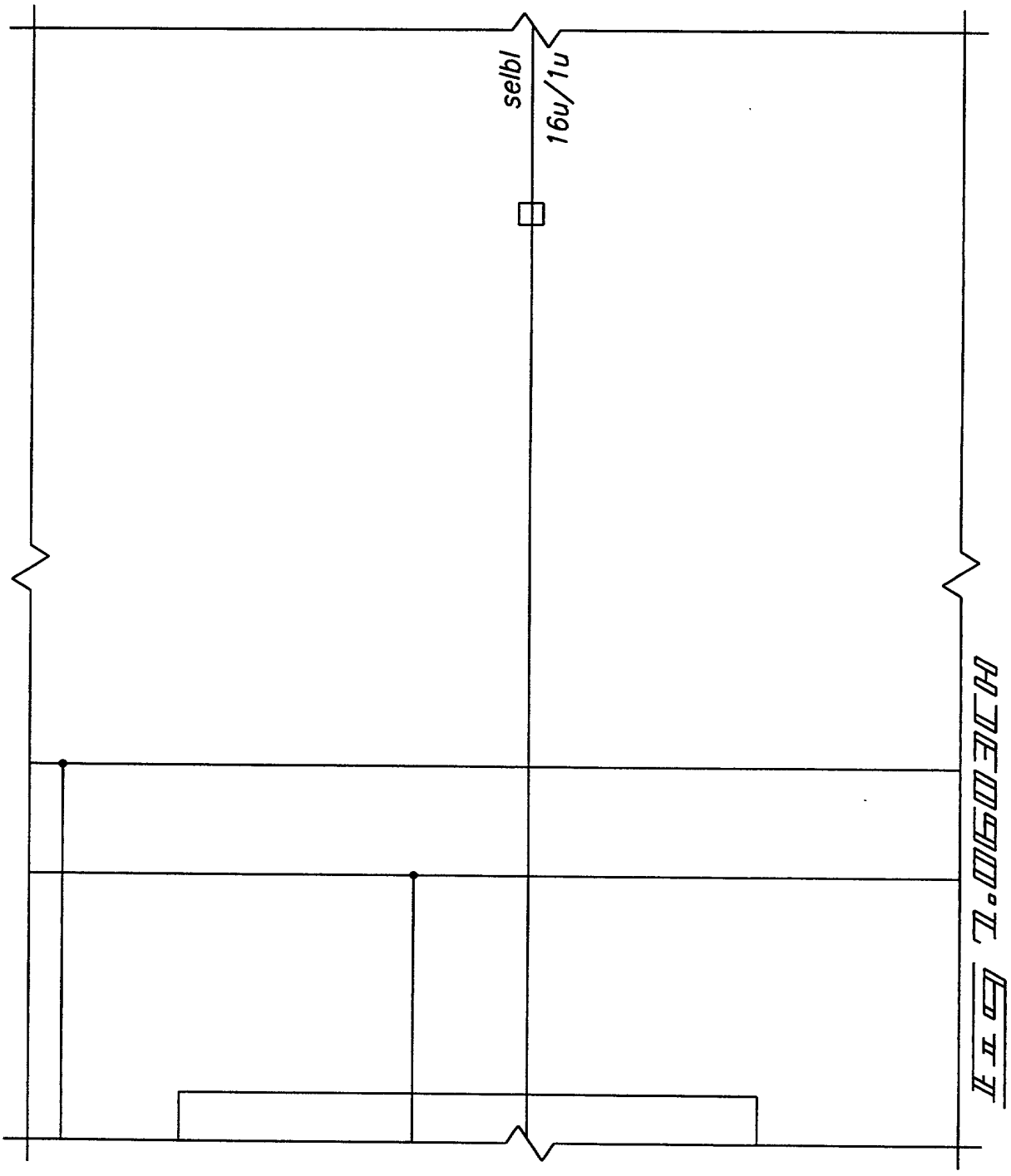
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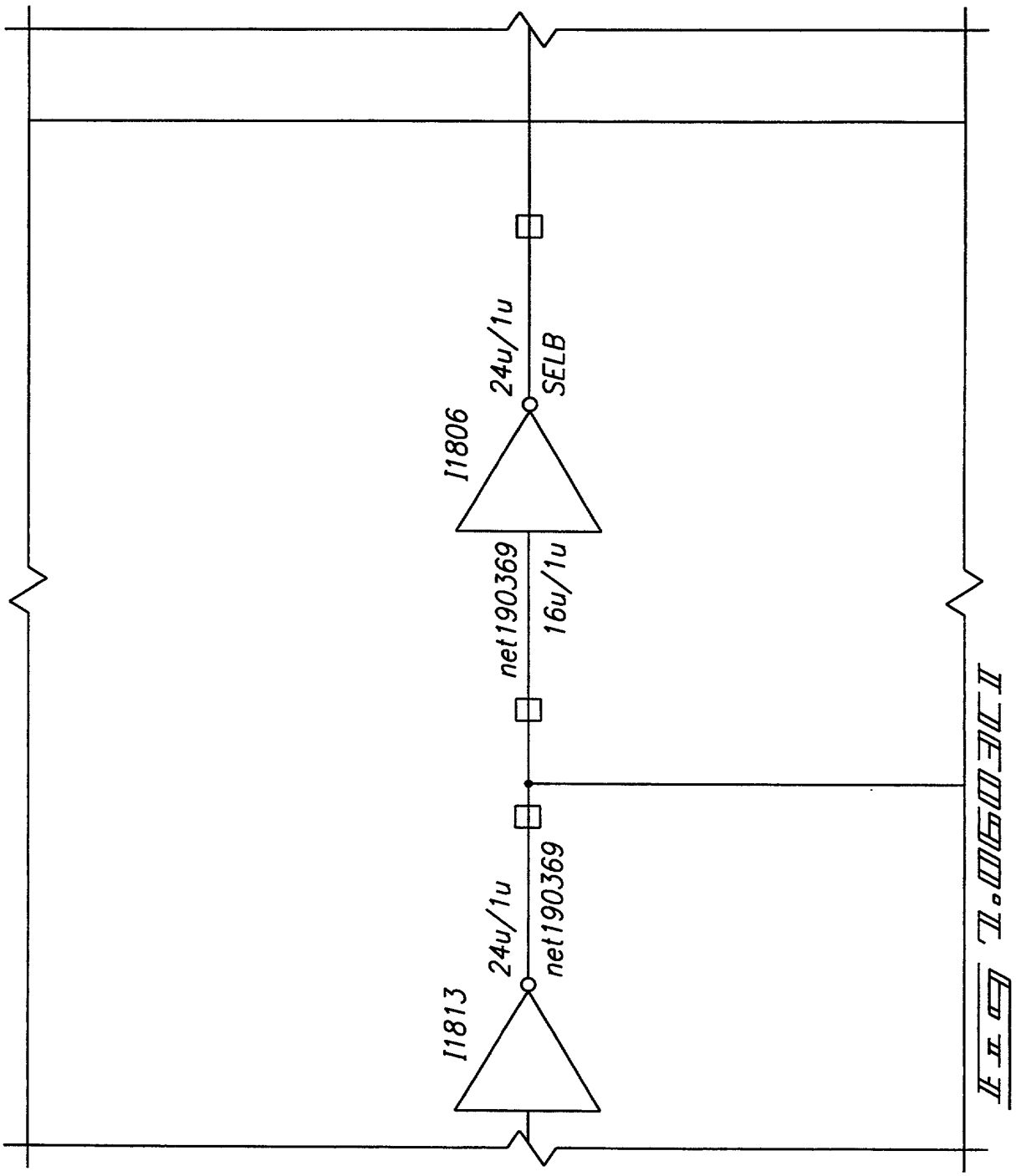
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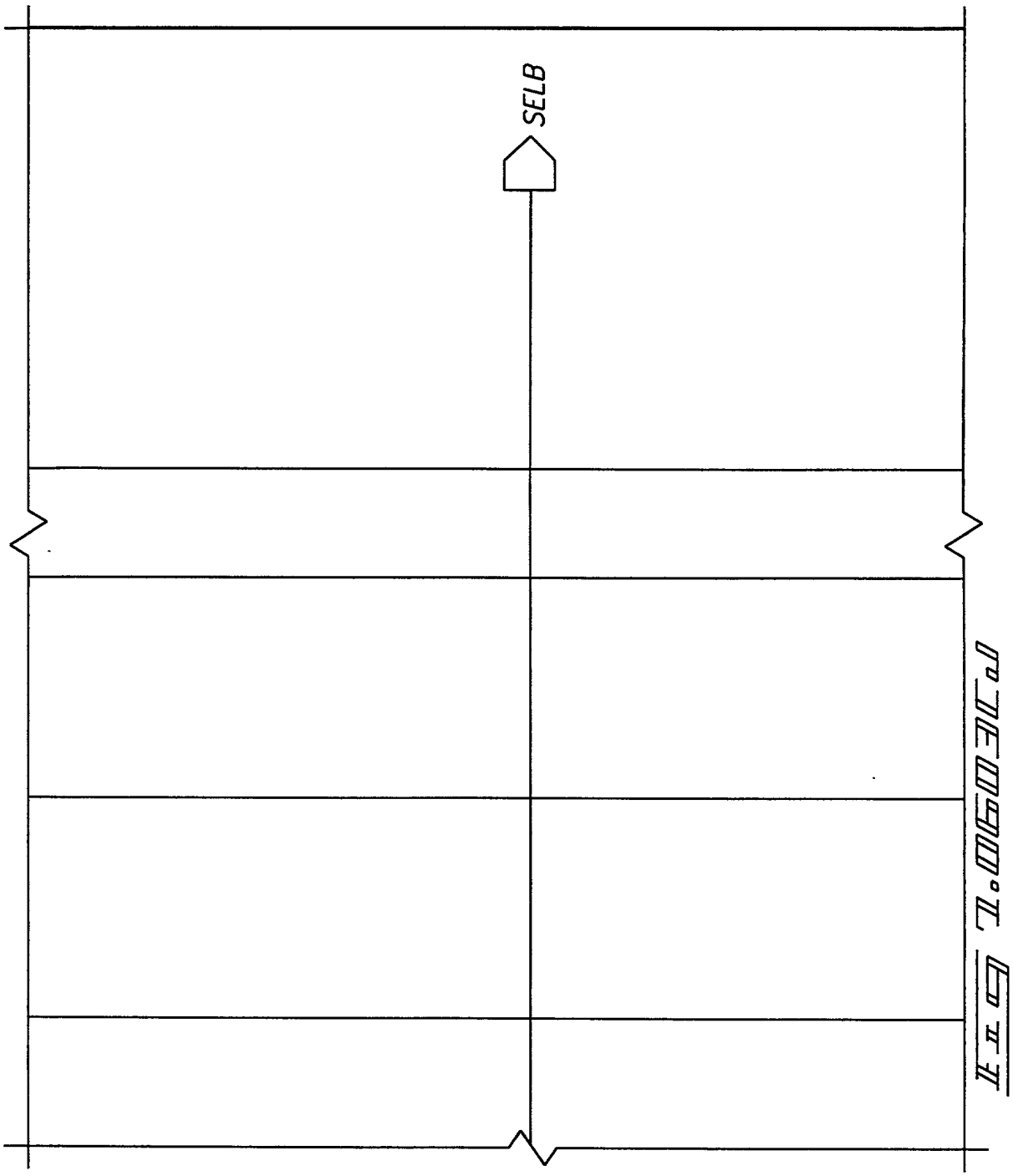
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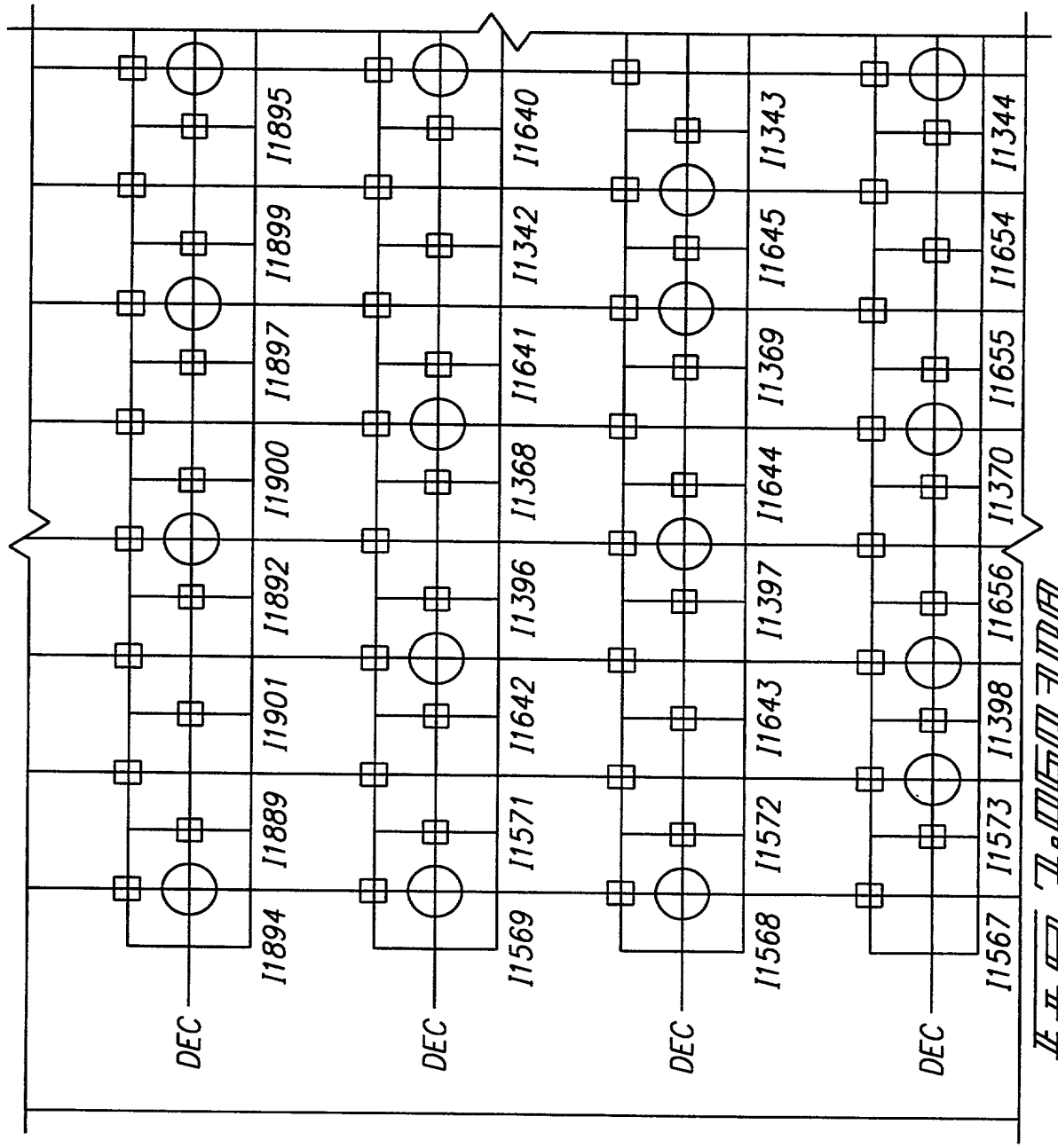


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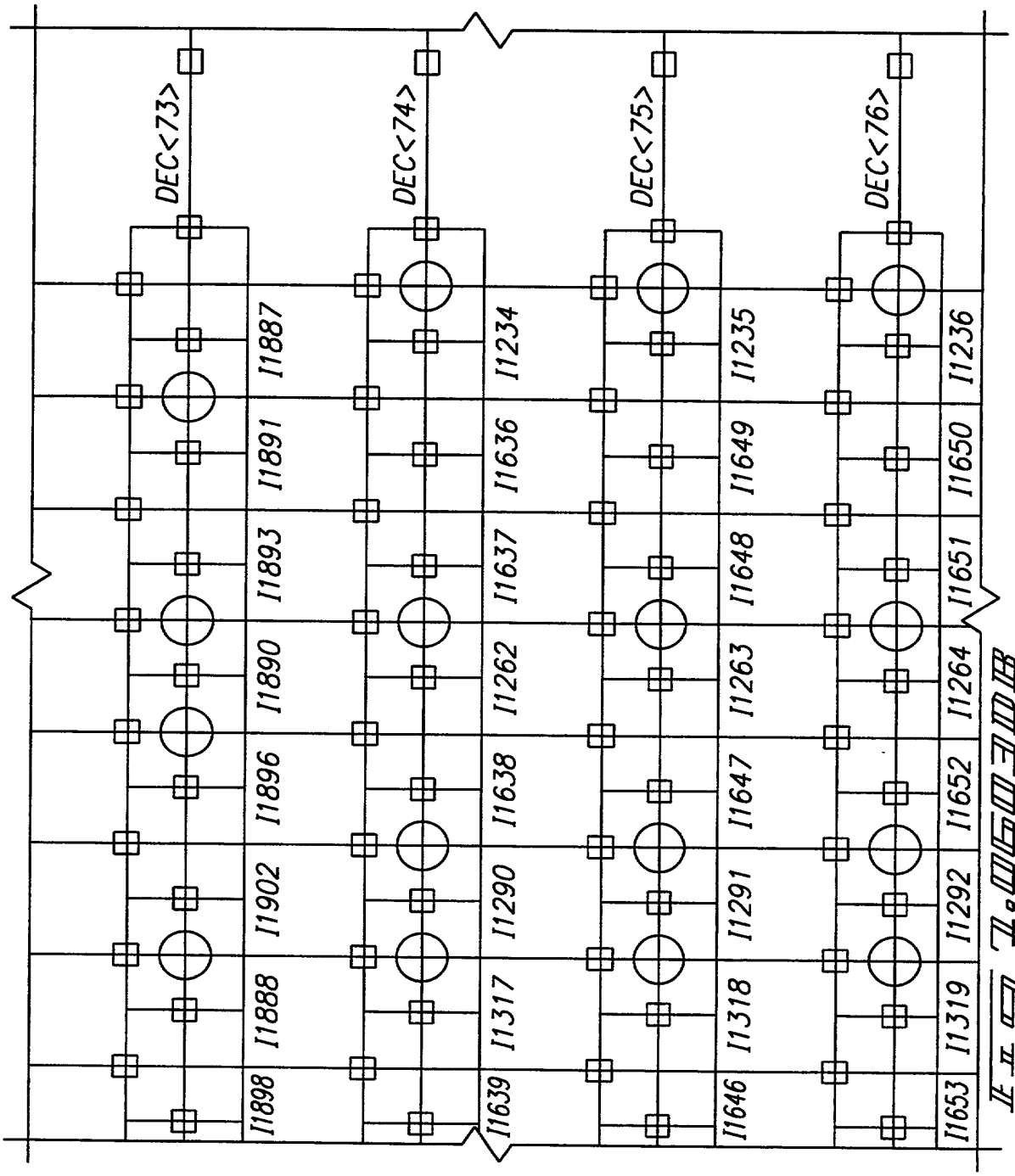

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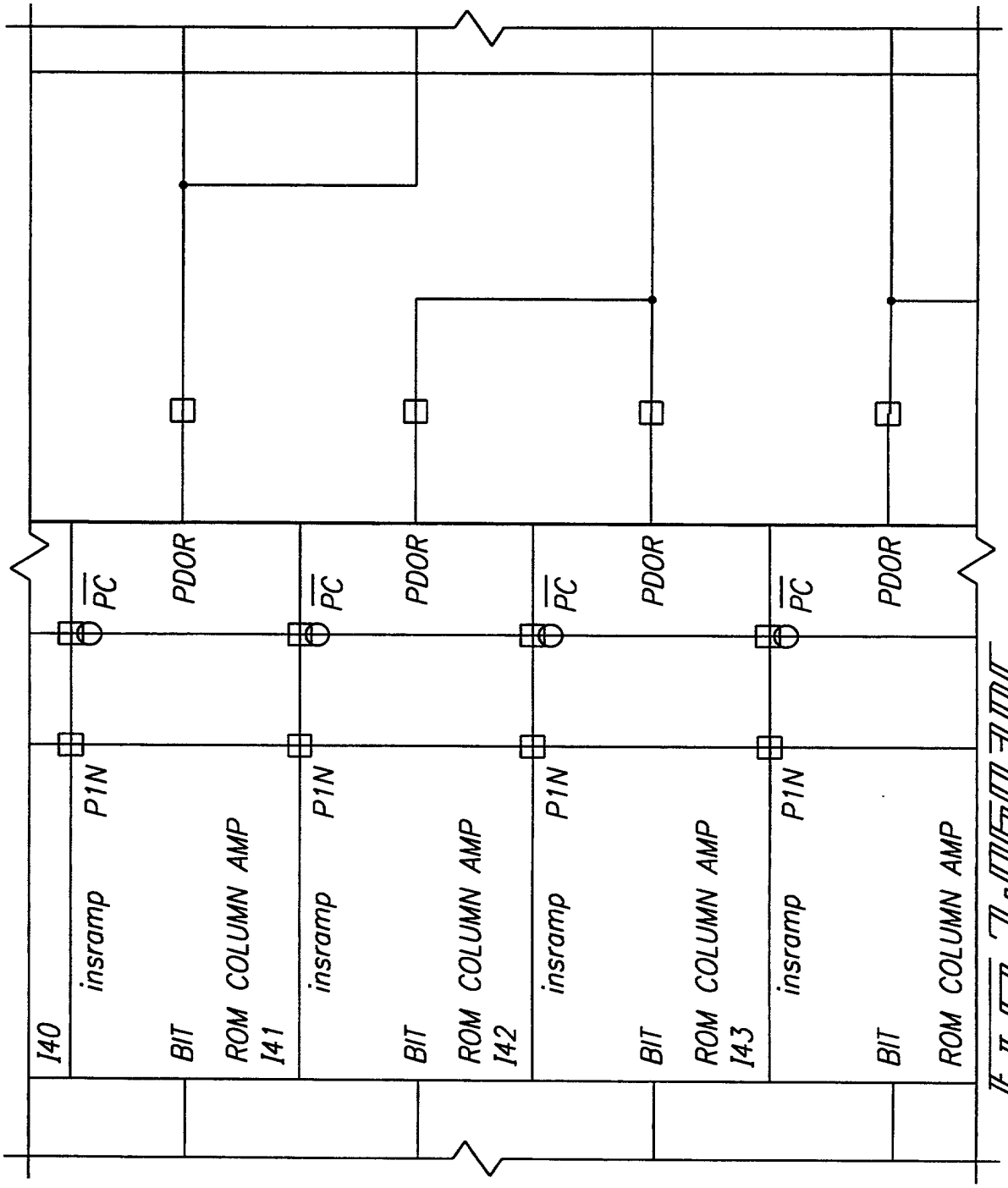


Fig. 11

EPO - DG 2003

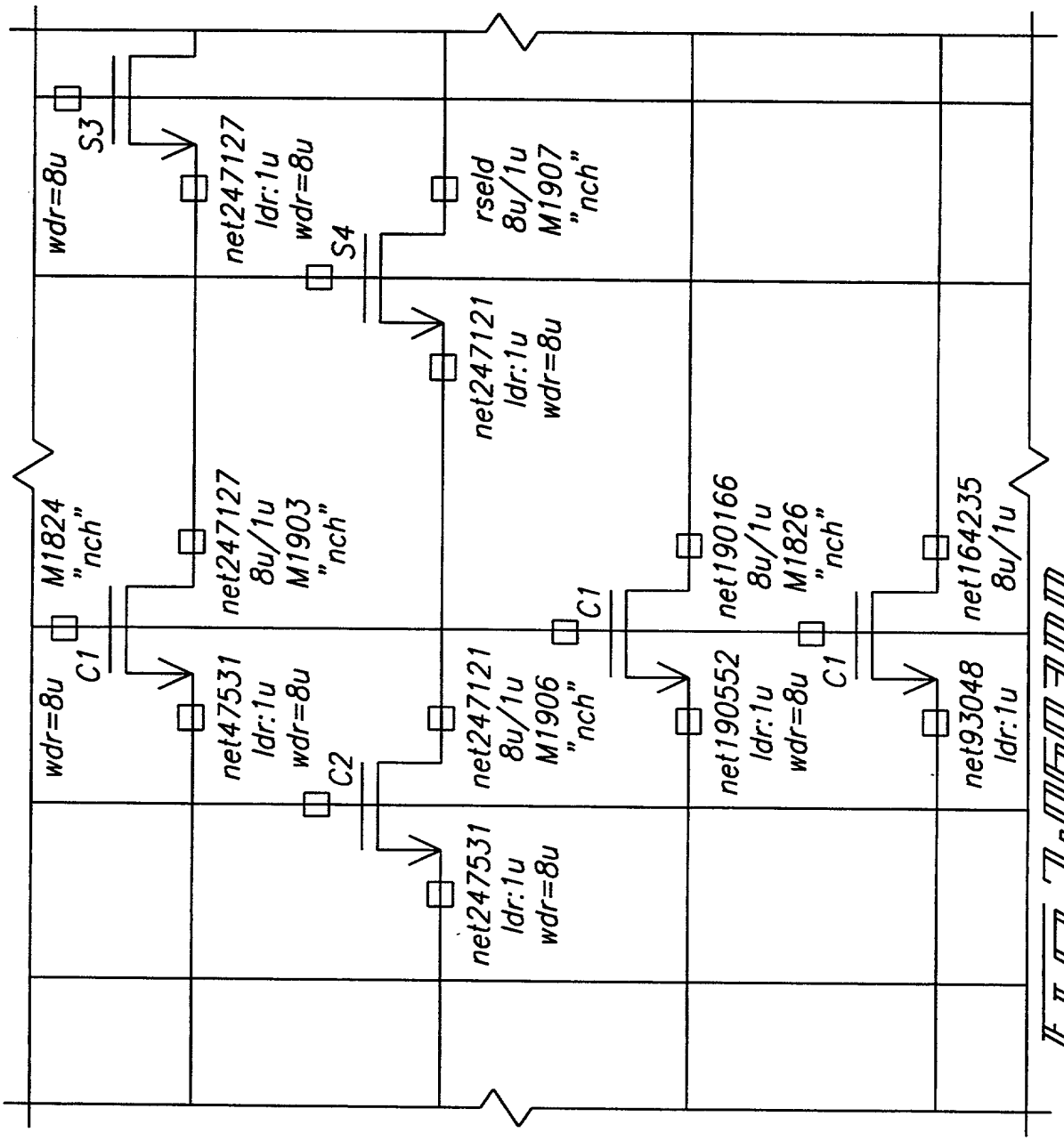
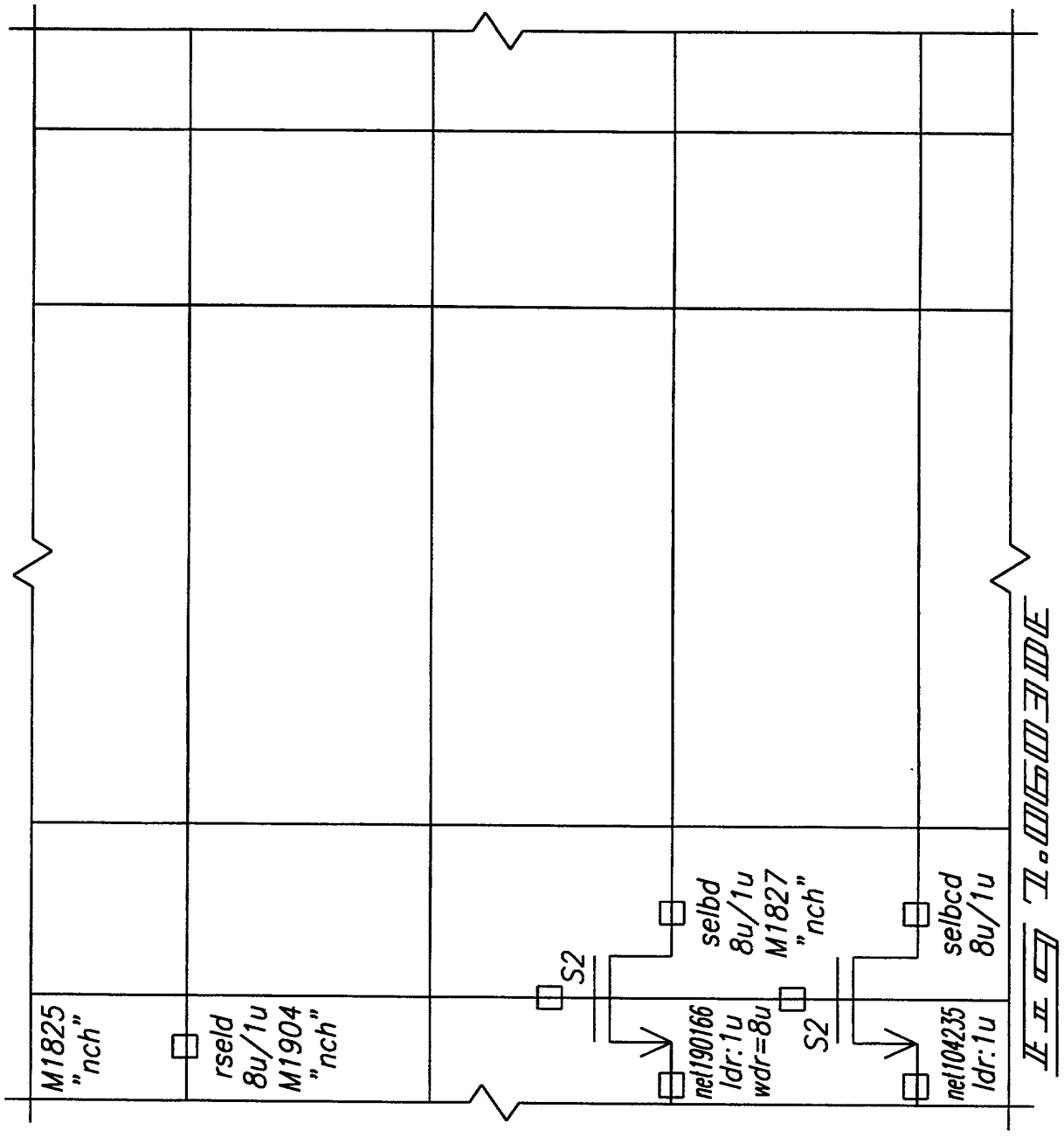
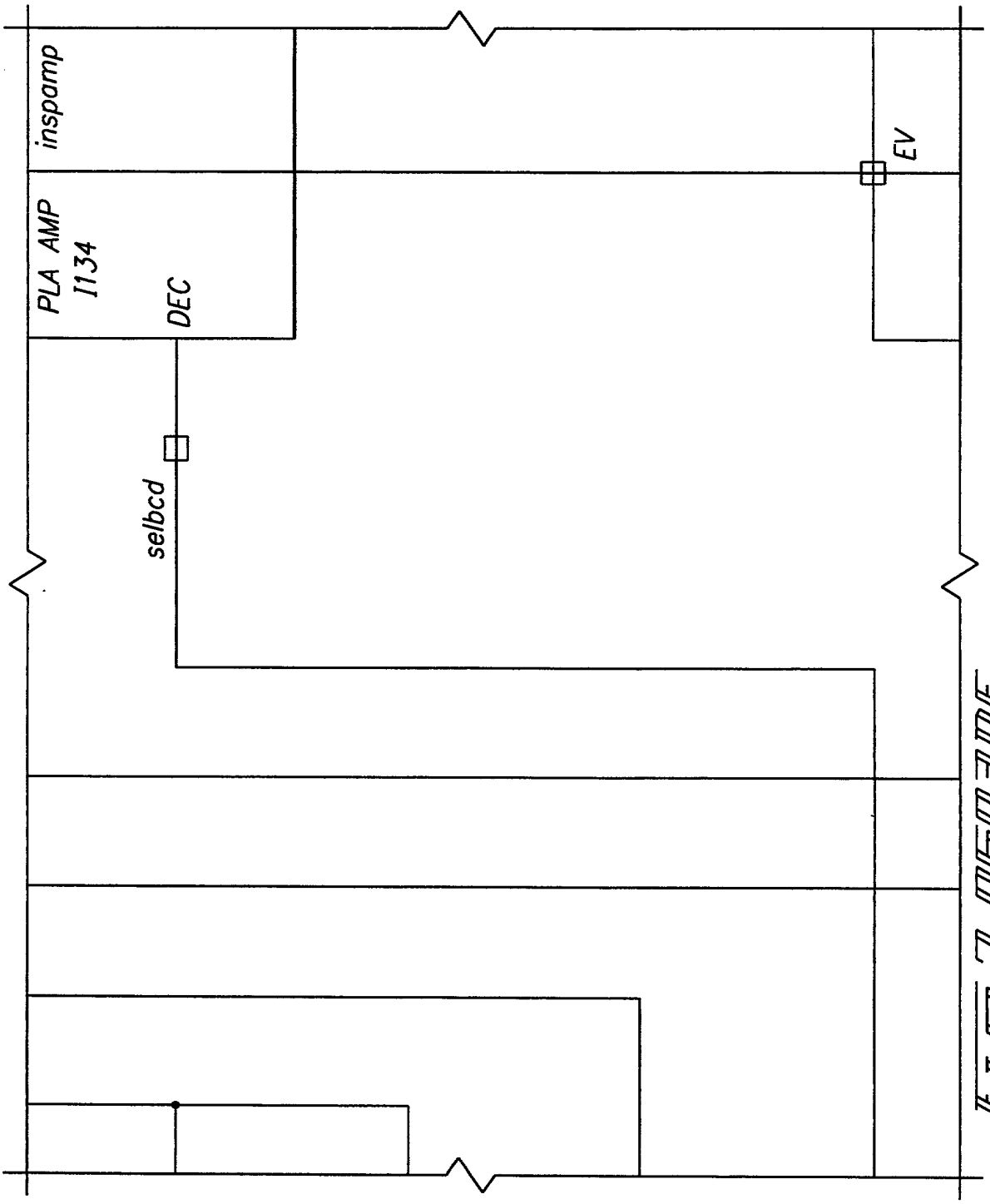
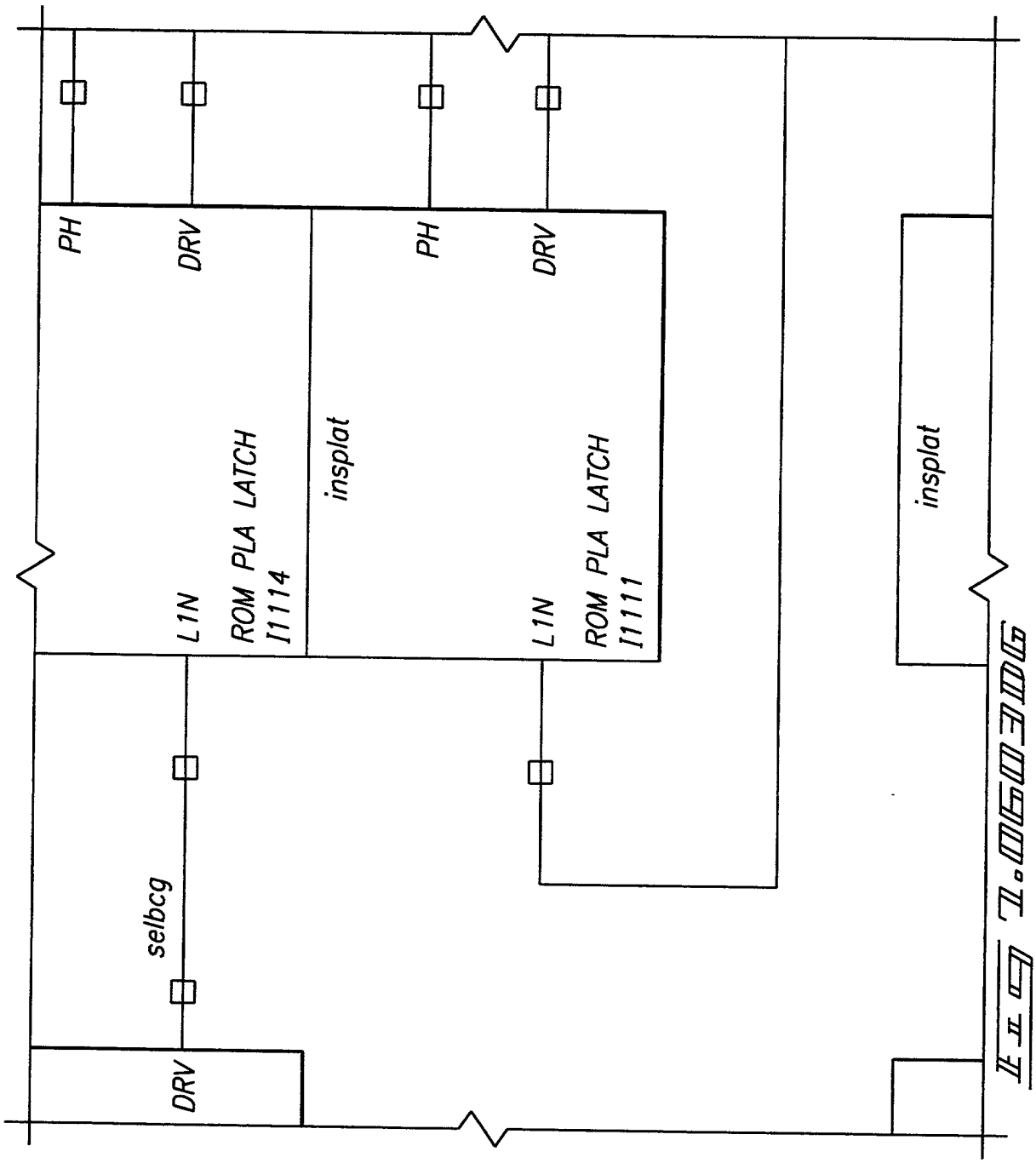
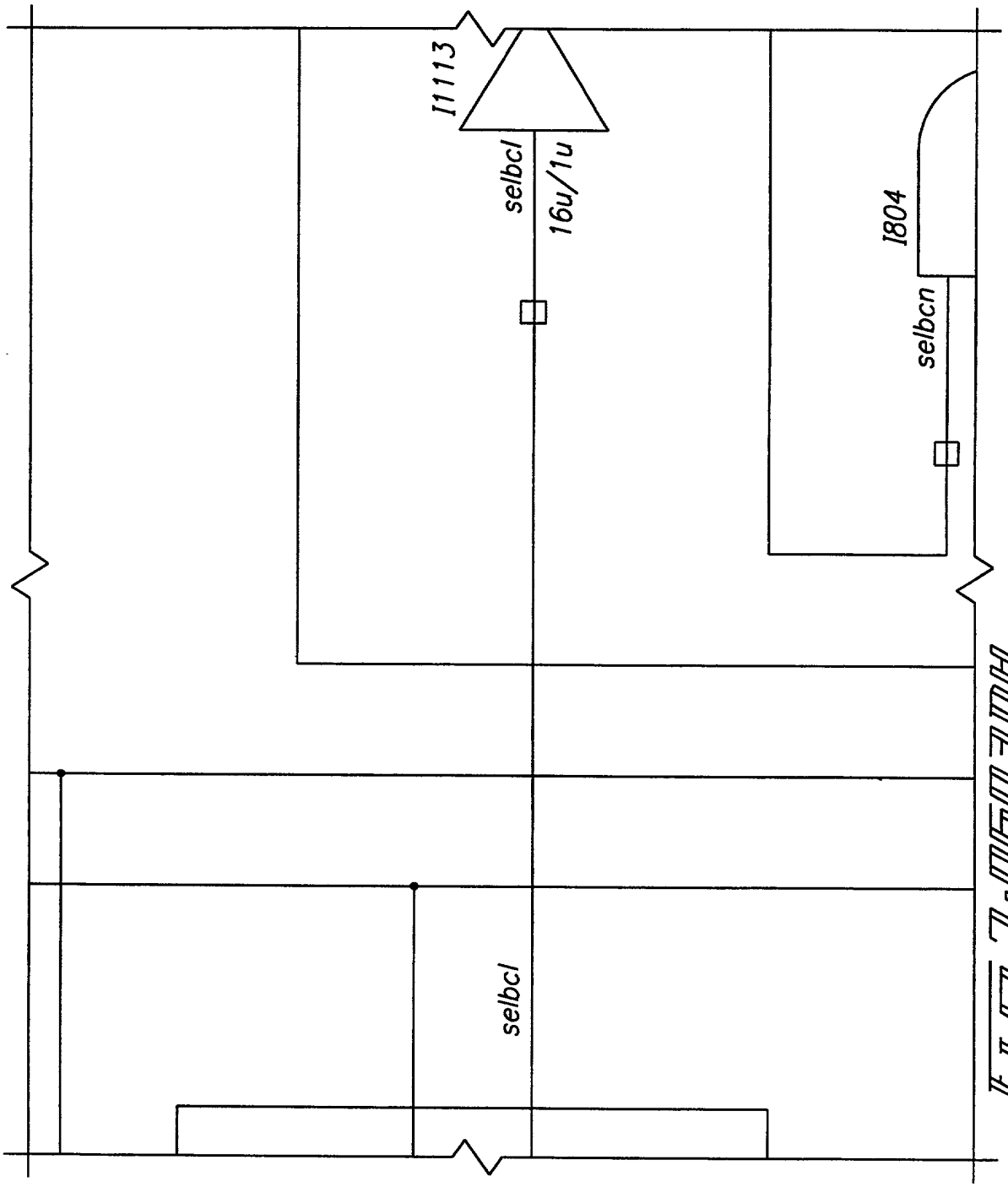


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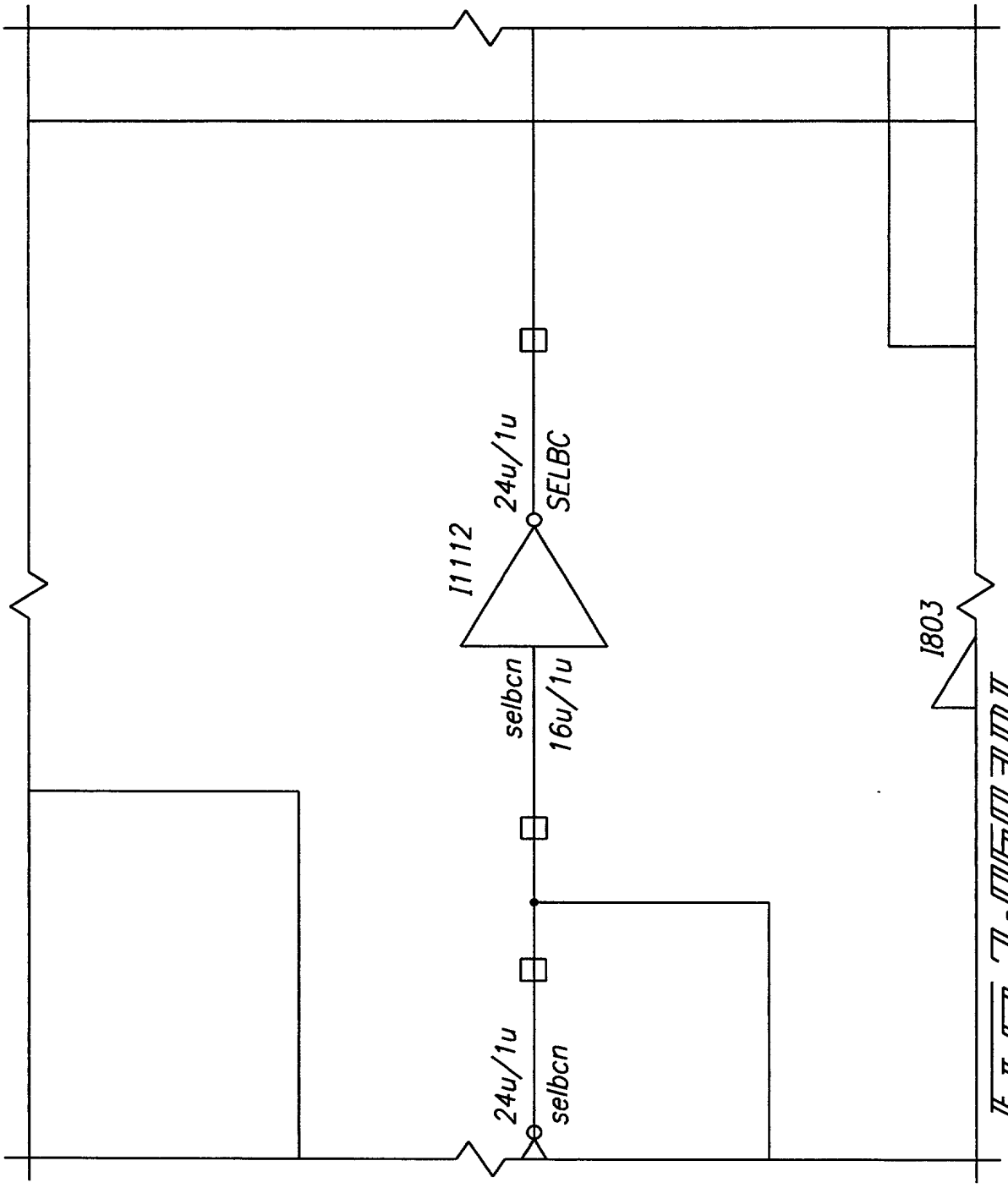

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Ш Ш Ш

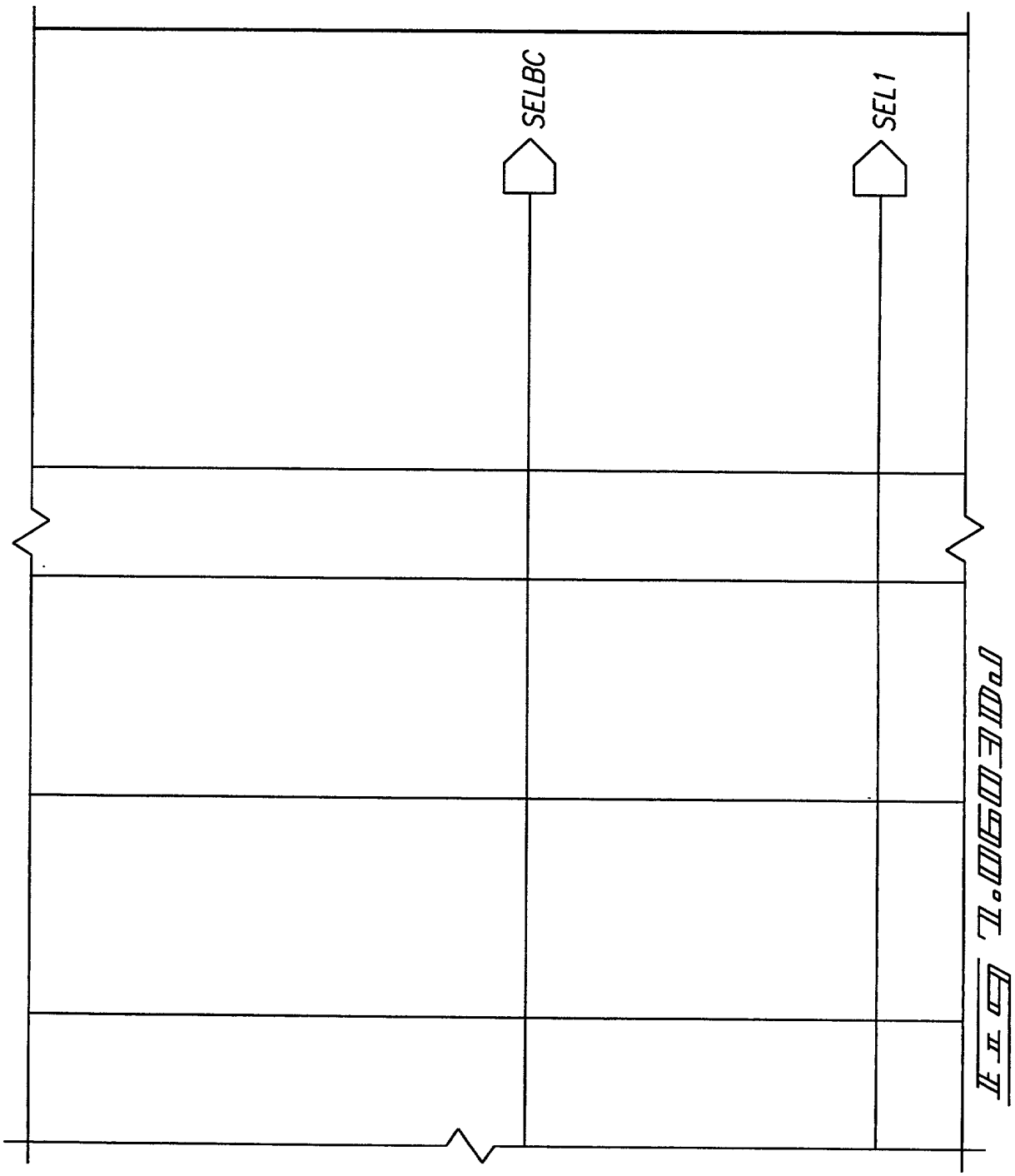

inspamp
PLA AMP
1134
DEC
selbcd
EV
FIG 1.0590.01


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DRV
PH
DRV
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ROM PLA LATCH
I1114
insplat
L1N
ROM PLA LATCH
I1111
insplat
selbcg
DRV
SCHEMA 1.

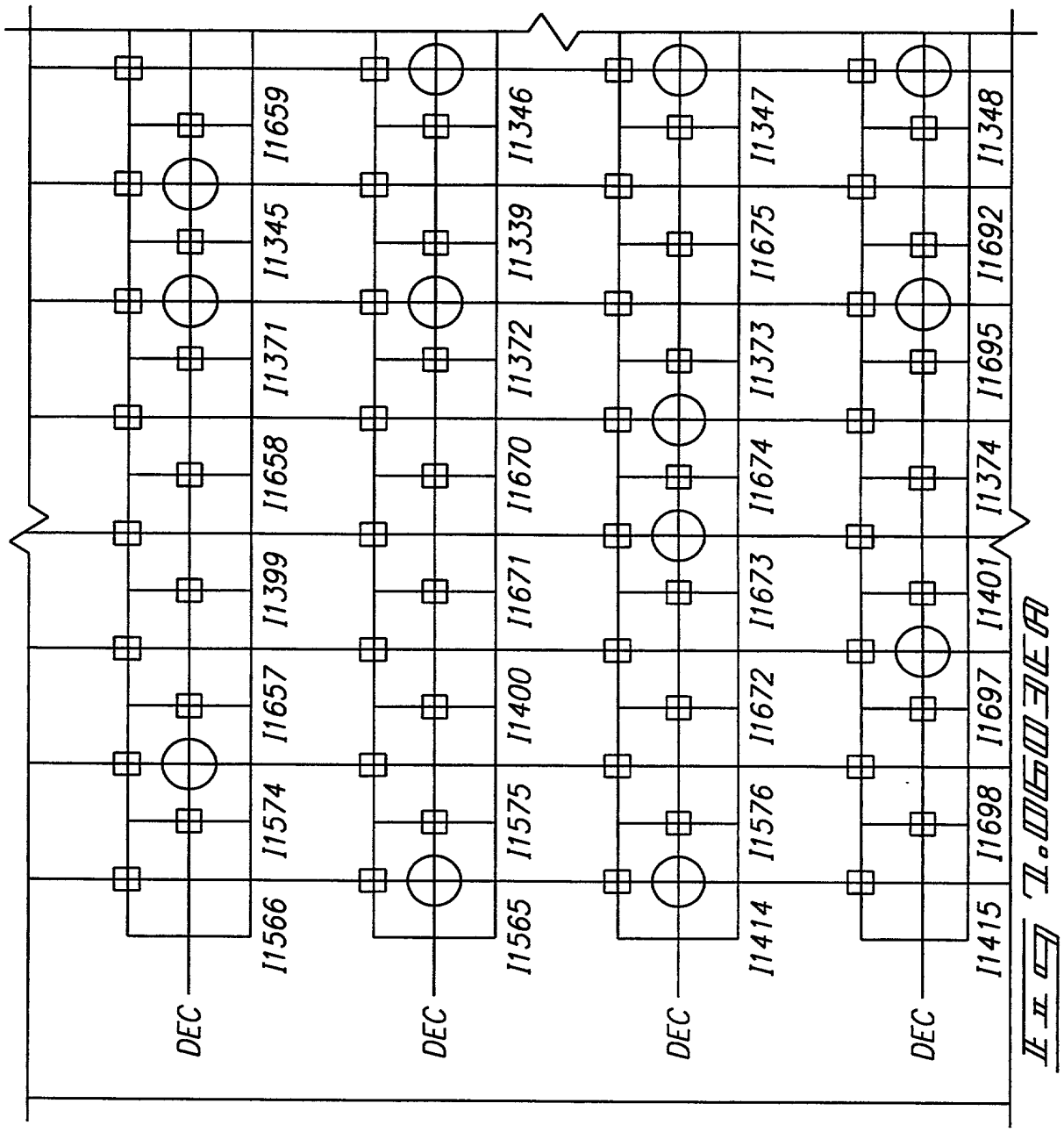


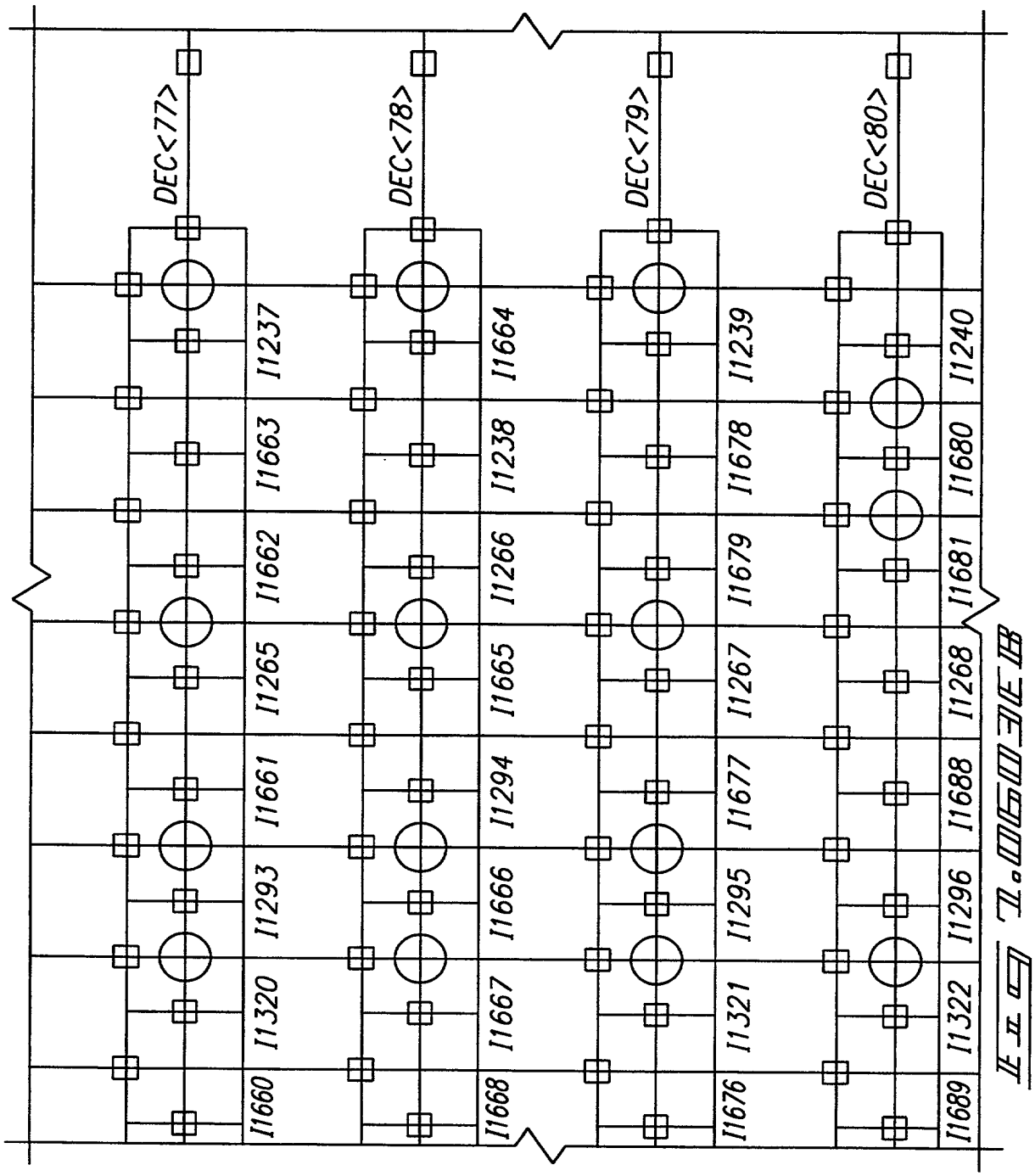
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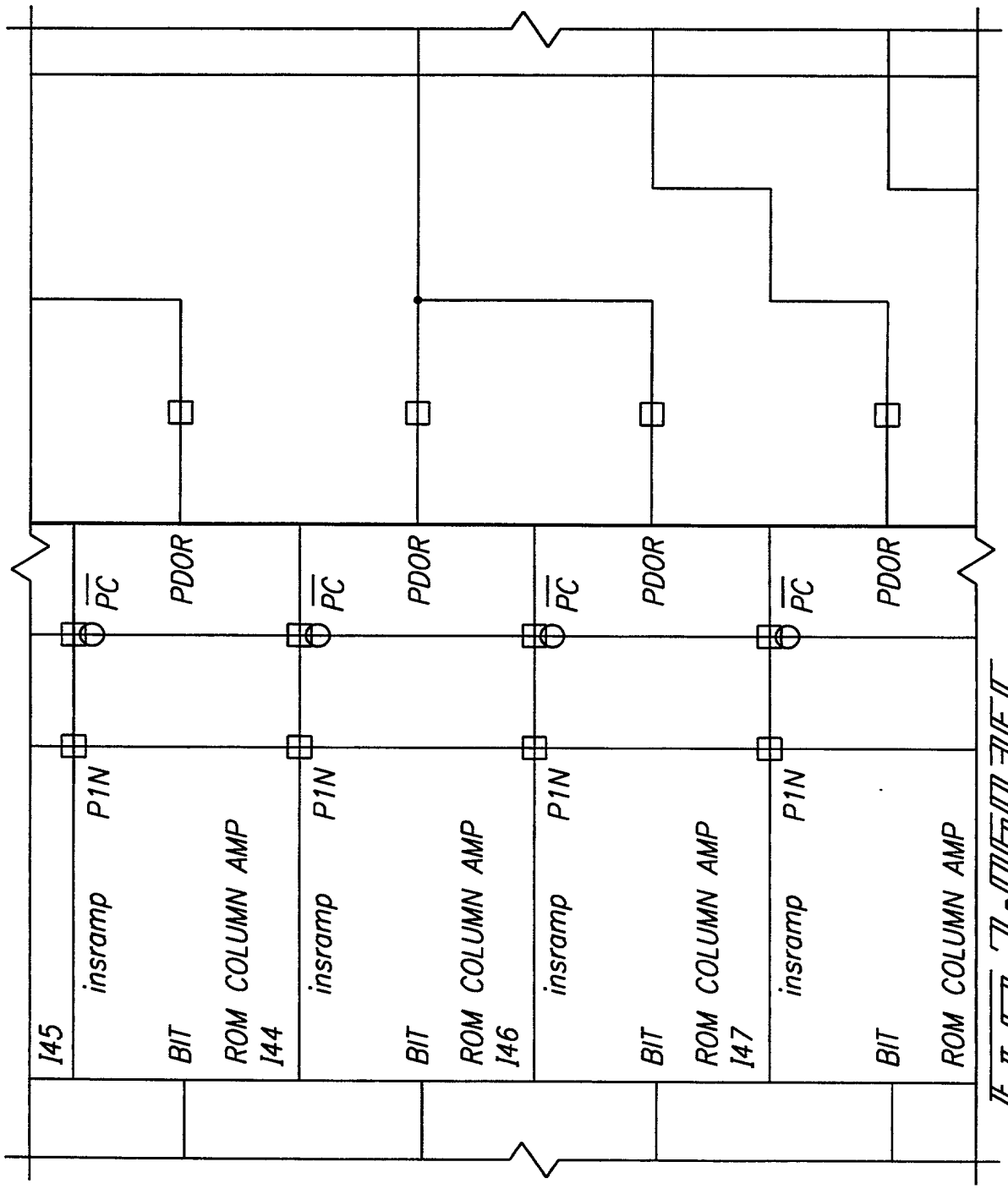

24u/1u
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selbcn
16u/1u
I803
24u/1u
selbcn
II ОЕЗОО'L ЬЗ ЯІ



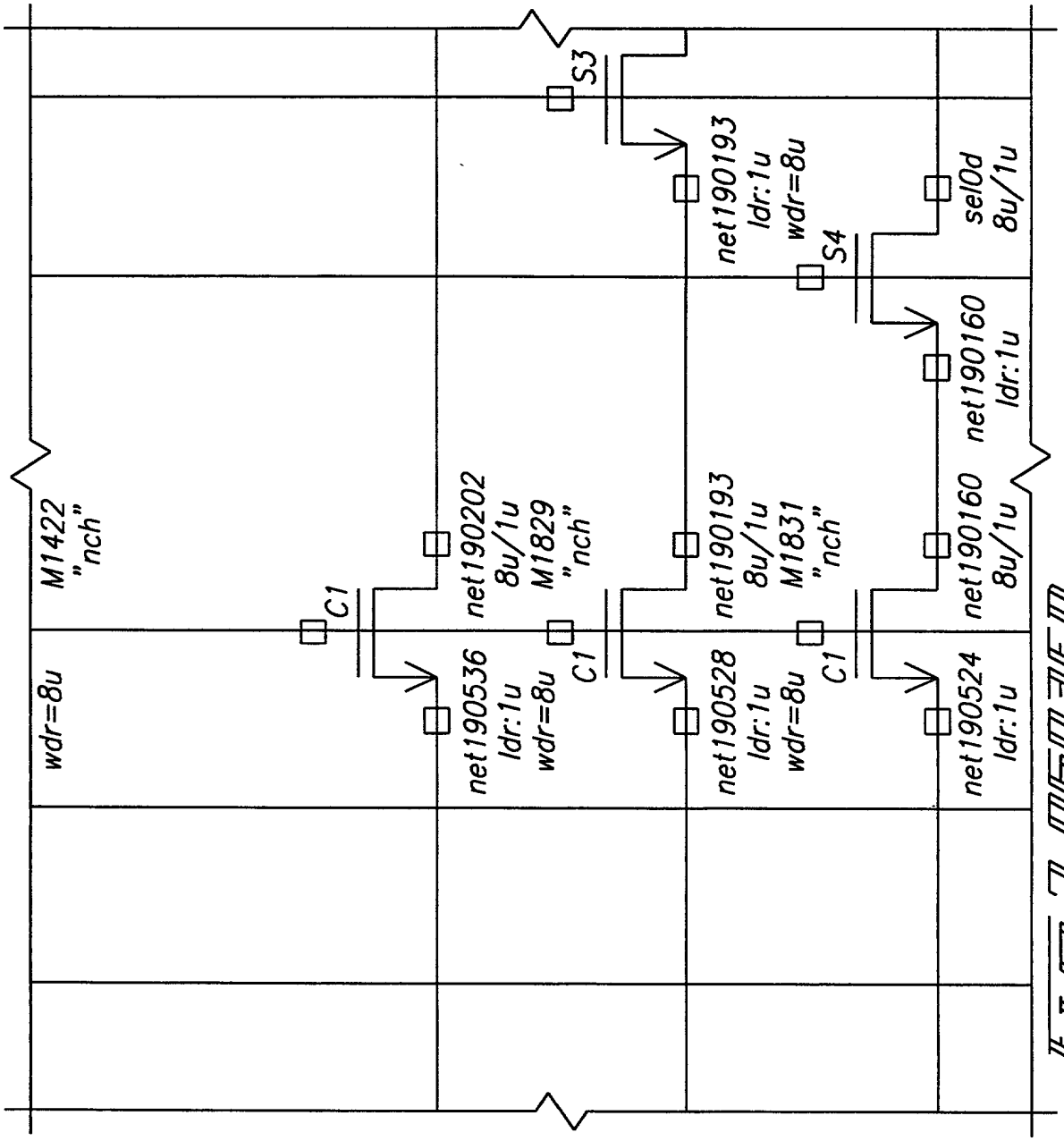
Patent - 5,570,259


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I1371
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I1671
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I1372
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I1346
DEC
I1414
I1576
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I1673
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I1692
I1348

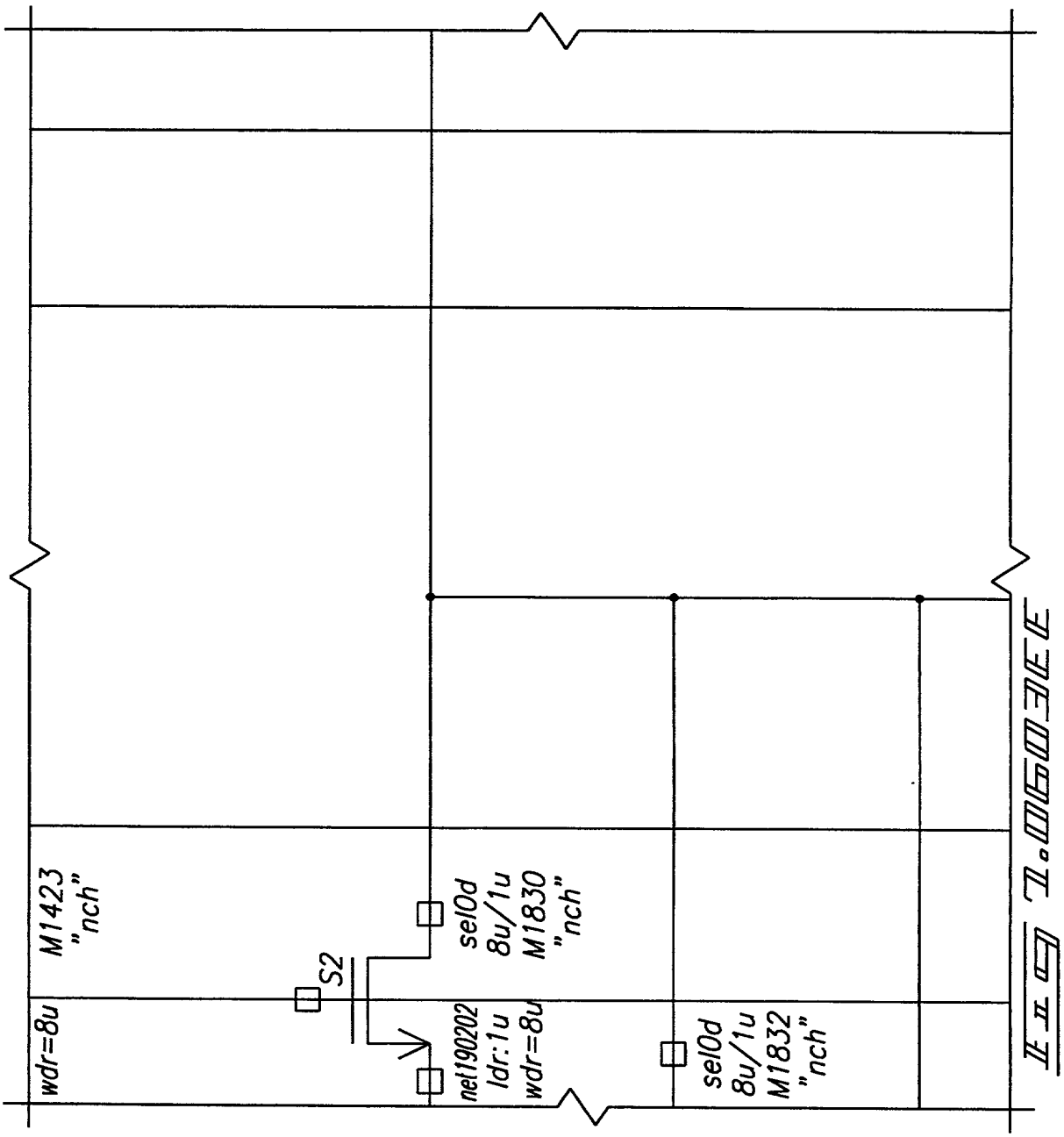

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I1295
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I1267
I1679
I1678
I1239
I1689
I1322
I1296
I1688
I1268
I1681
I1680
I1240
BIT LOGIC LEVEL


I45
BIT
ROM COLUMN AMP
I44
insramp
P1N
PC
PDOR
BIT
ROM COLUMN AMP
I46
insramp
P1N
PC
PDOR
BIT
ROM COLUMN AMP
I47
insramp
P1N
PC
PDOR
BIT
ROM COLUMN AMP
insramp
P1N
PC
PDOR

ΦΙΓ. 2


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ldr:1u
wdr=8u
net190202
8u/1u
M1829
"nch"
C1
net190528
ldr:1u
wdr=8u
net190193
8u/1u
M1831
"nch"
C1
net190524
ldr:1u
net190160
8u/1u
net190160
ldr:1u
S4
net190193
ldr:1u
wdr=8u
S3
sel0d
8u/1u

Фиг. 1.005.3E


M1423
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wdr=8u
S2
sel0d
8u/1u
M1830
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ldr:1u
wdr=8u
sel0d
8u/1u
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ЗЕЛЕНОГРАД

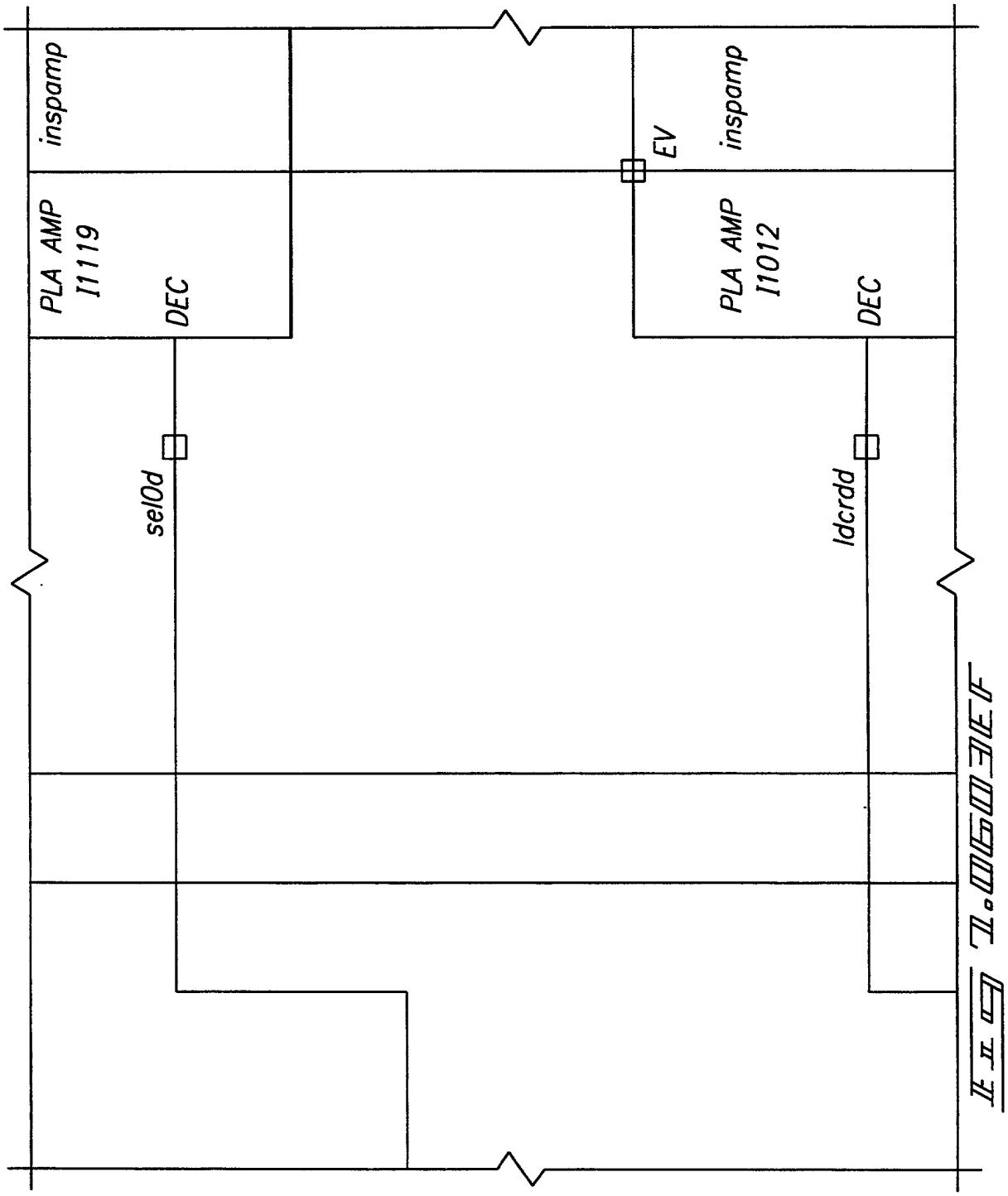
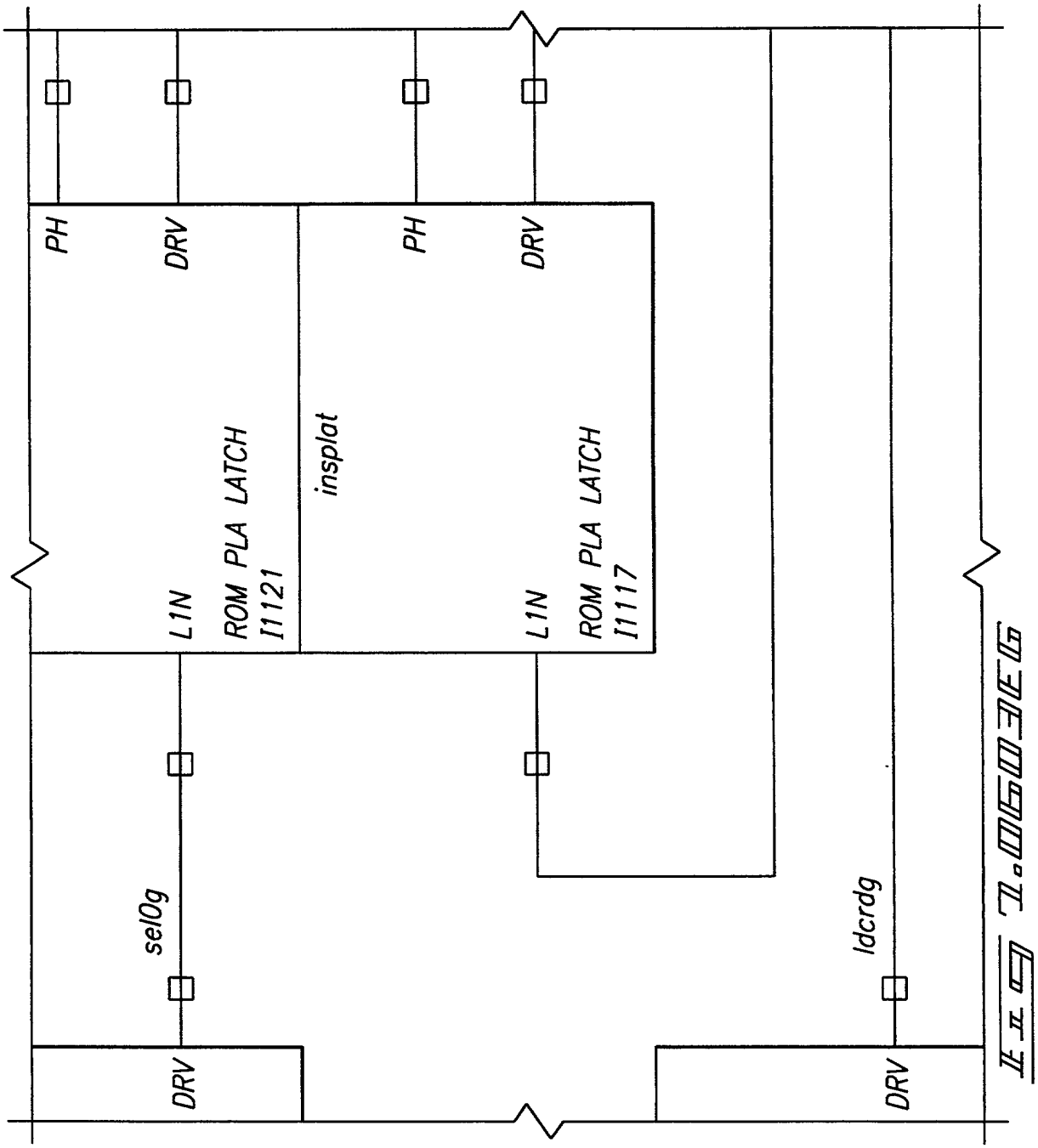
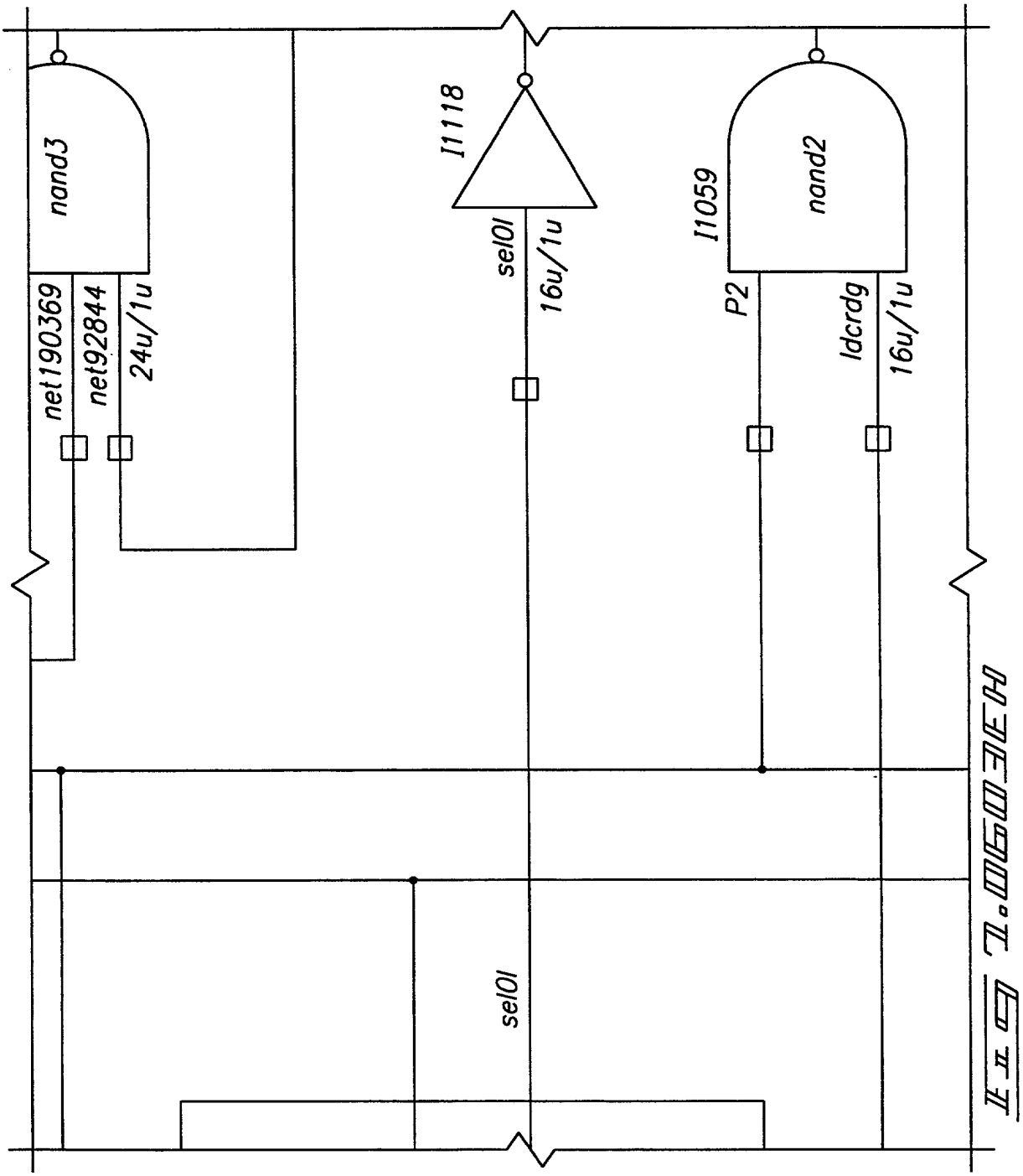


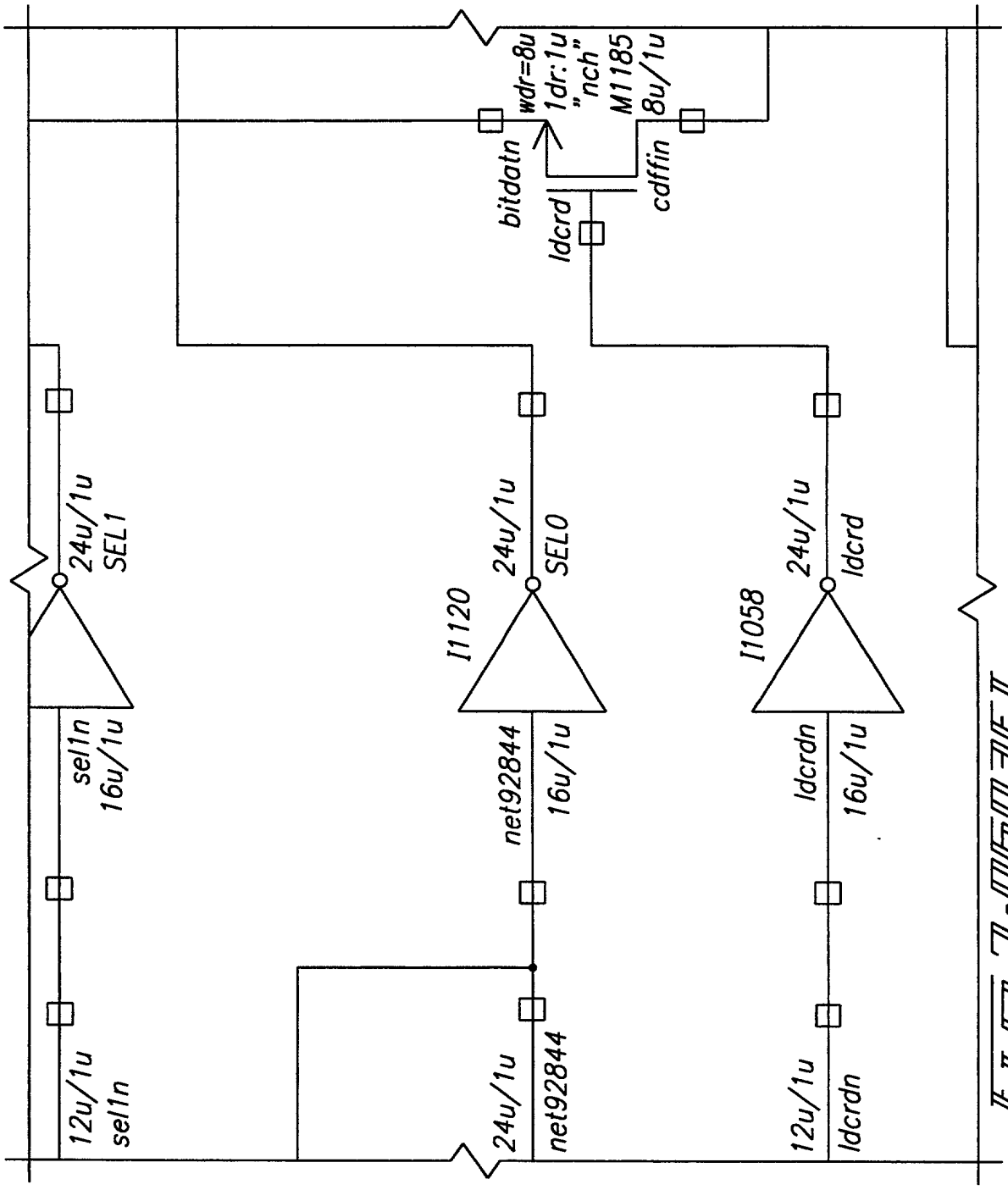
FIG 11.0500E

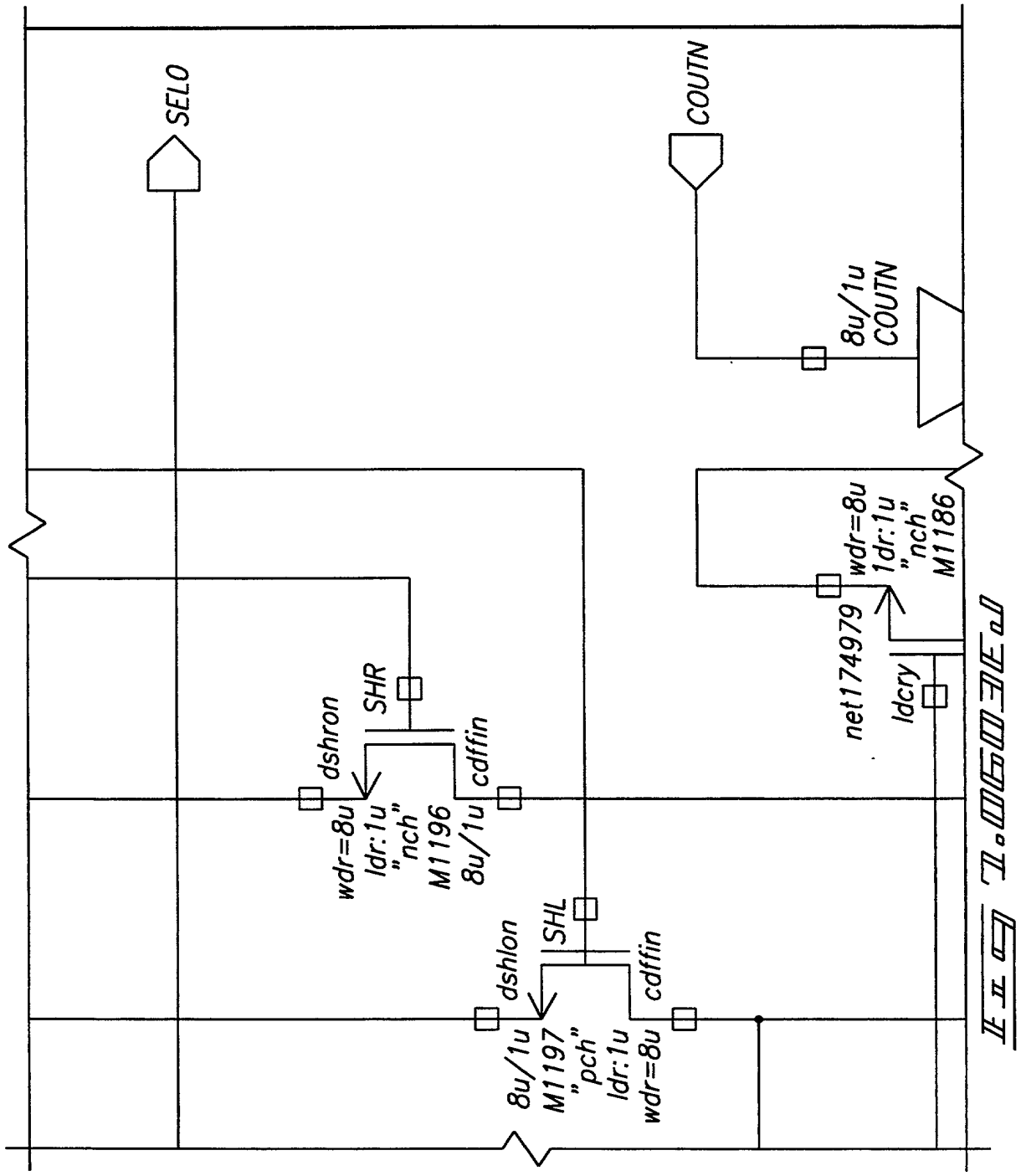
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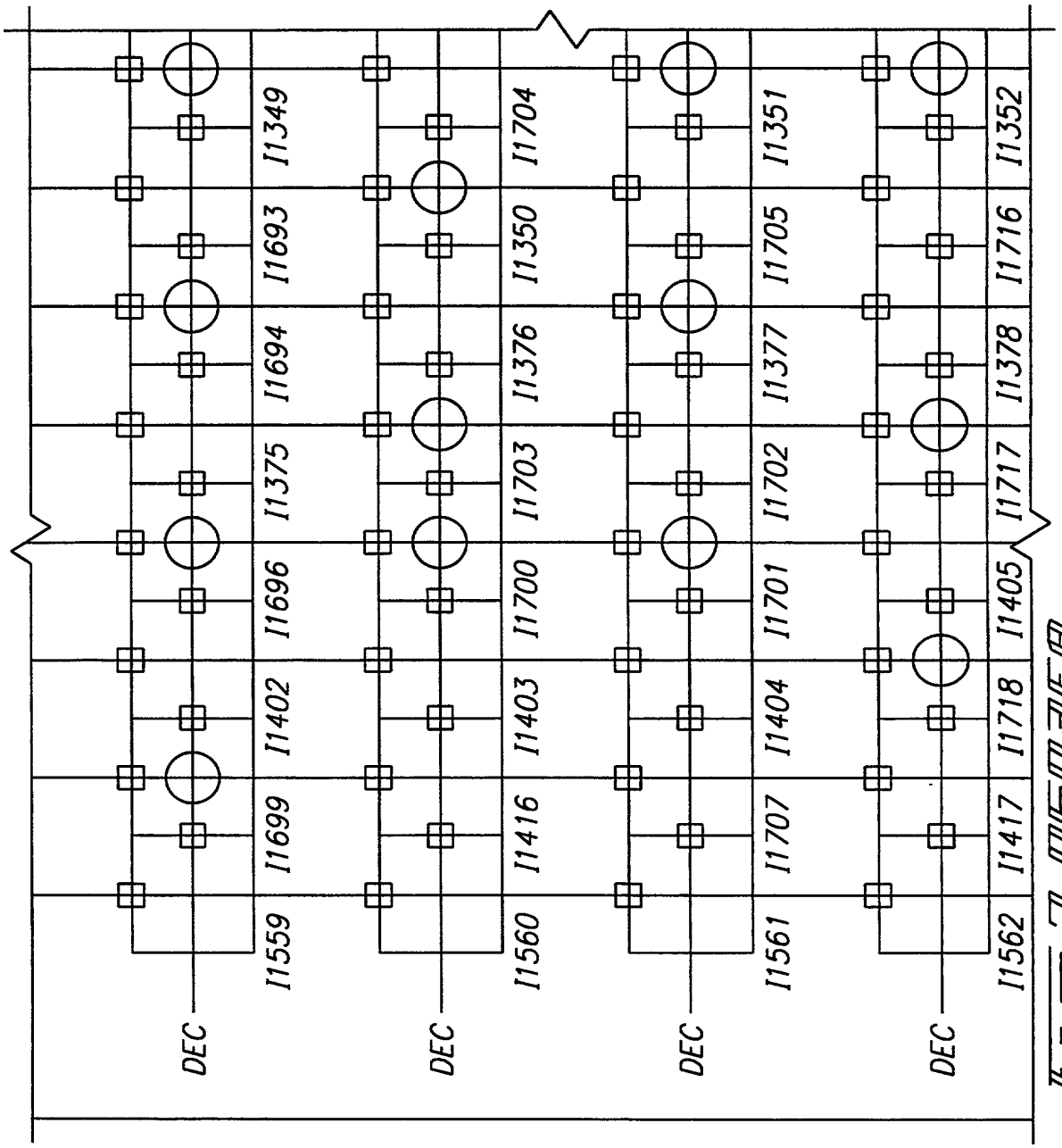

PH
DRV
PH
DRV
L1N
ROM PLA LATCH
I1121
insplat
L1N
ROM PLA LATCH
I1117
sel0g
ldcrdg
DRV
DRV
ΣΕΛΟΓΟΣ Π.ΜΟΥΣΕΙΟΥ


nand3
net190369
net92844
24u/1u
I1118
sel01
16u/1u
I1059
nand2
P2
ldcrdg
16u/1u
sel01

Фиг. 1

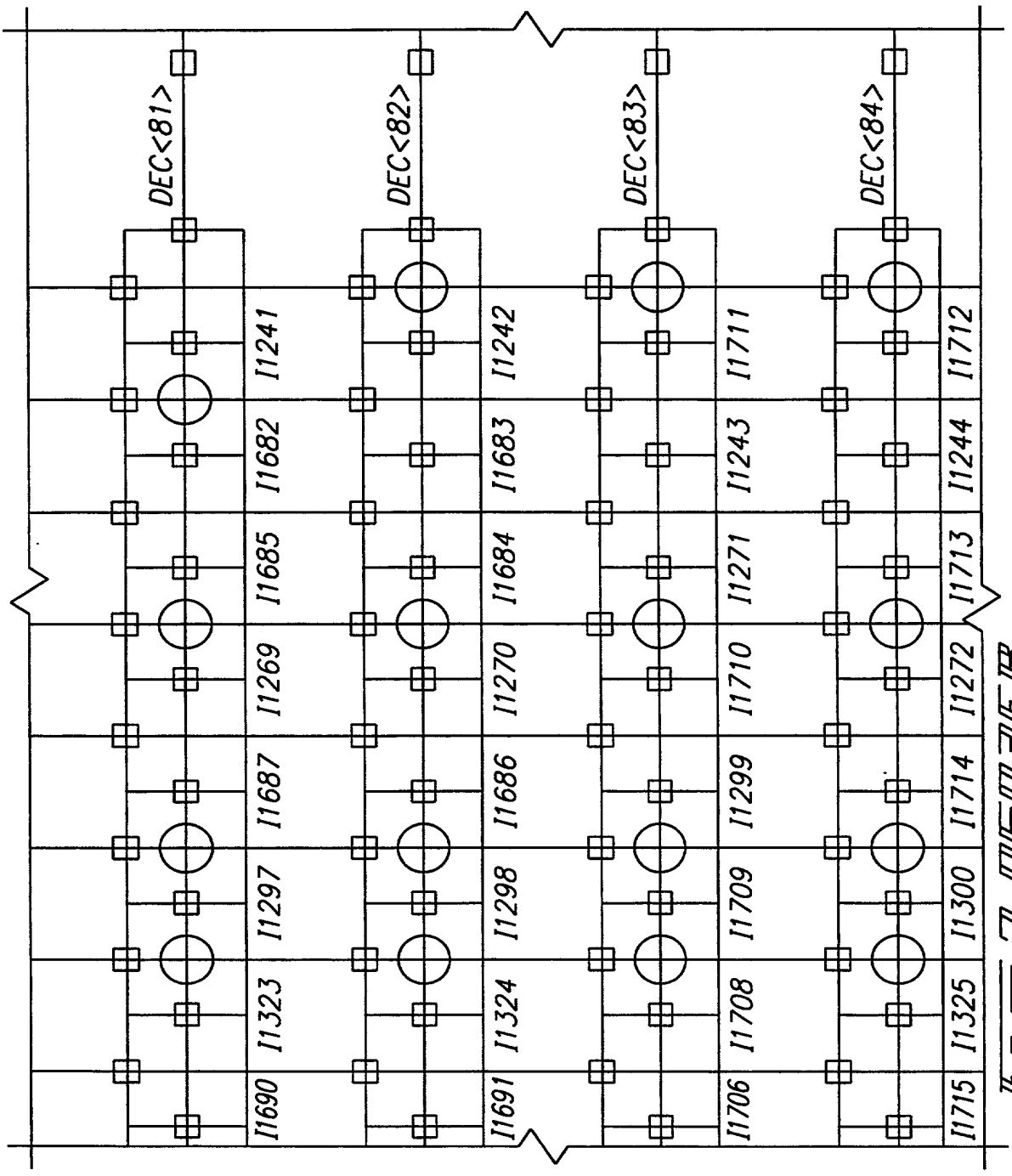

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cdffin
ldcrd
24u/1u
SEL1
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24u/1u
ldcrd
I1120
I1058
sel1n
16u/1u
net92844
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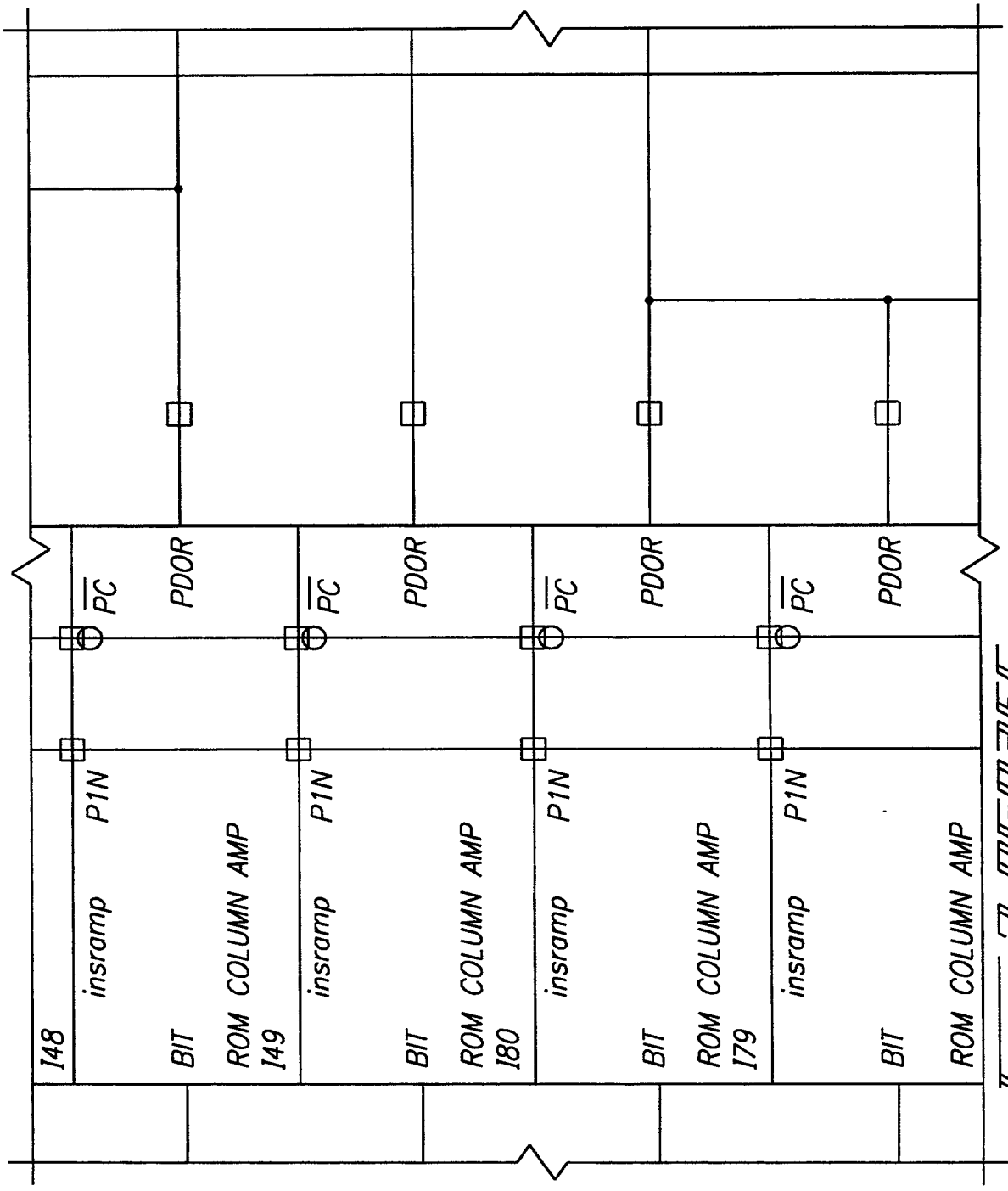

SELO
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SHR
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ldr:1u
"nch"
M1196
8u/1u
cdffin
dshlon
SHL
8u/1u
M1197
"pch"
ldr:1u
wdr=8u
cdffin



Фиг. 1

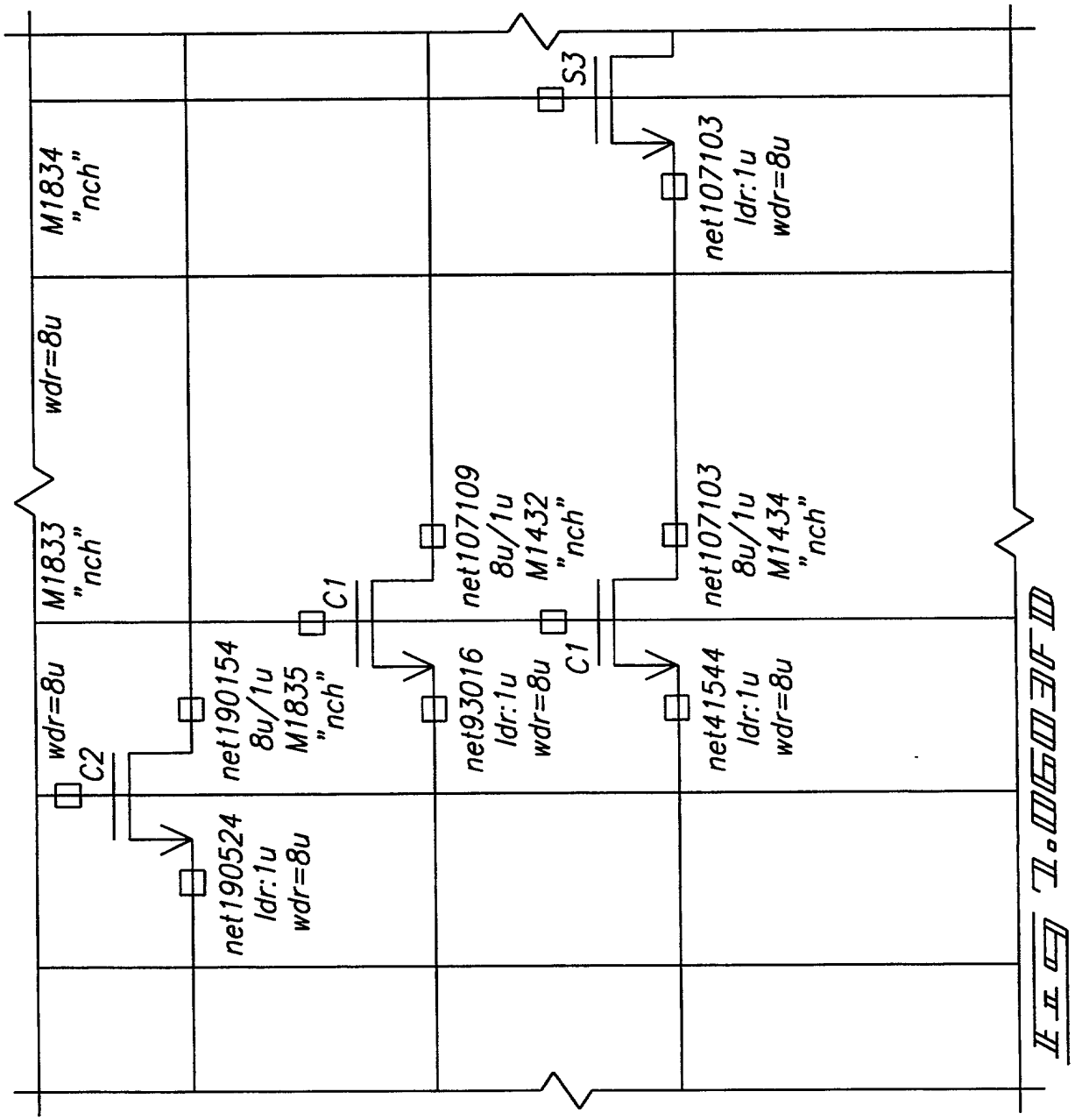
ПОСЛЕДНЯЯ СТРАНИЦА

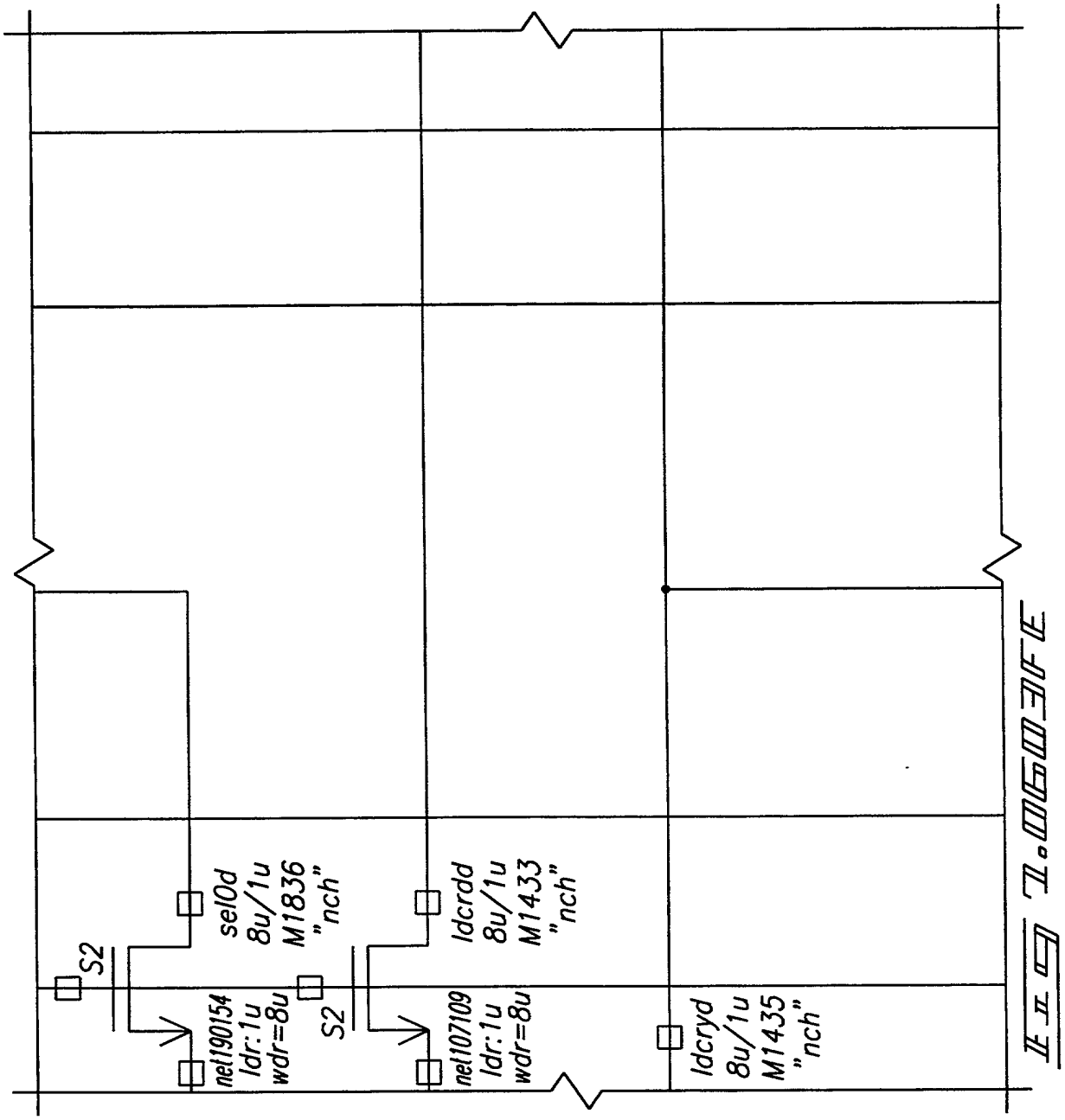

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I1323
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I1709
I1299
I1710
I1271
I1243
I1711
I1715
I1325
I1300
I1714
I1272
I1713
I1244
I1712



Фиг. 11

TOTTEN-2402220601





Electronic Design

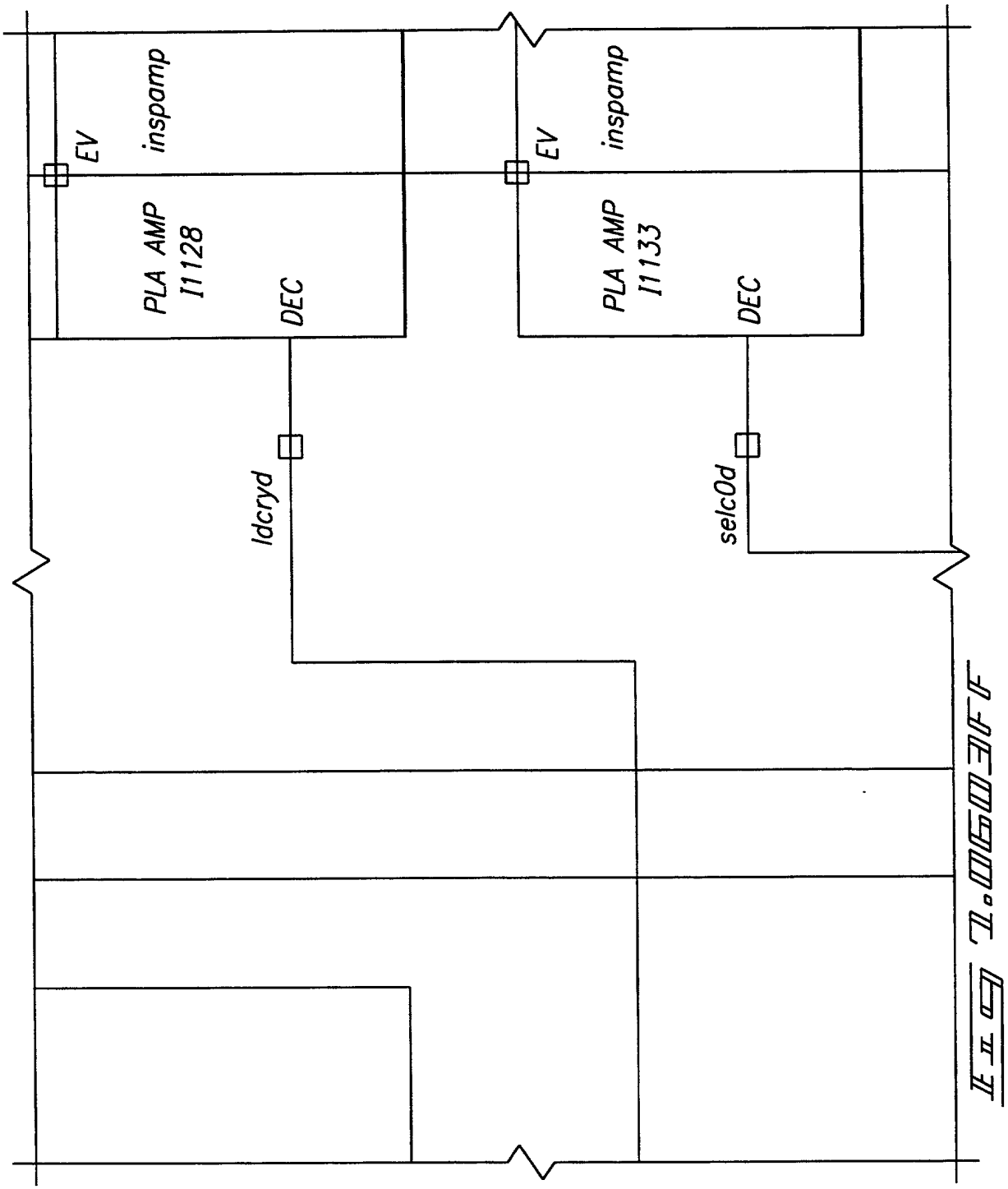
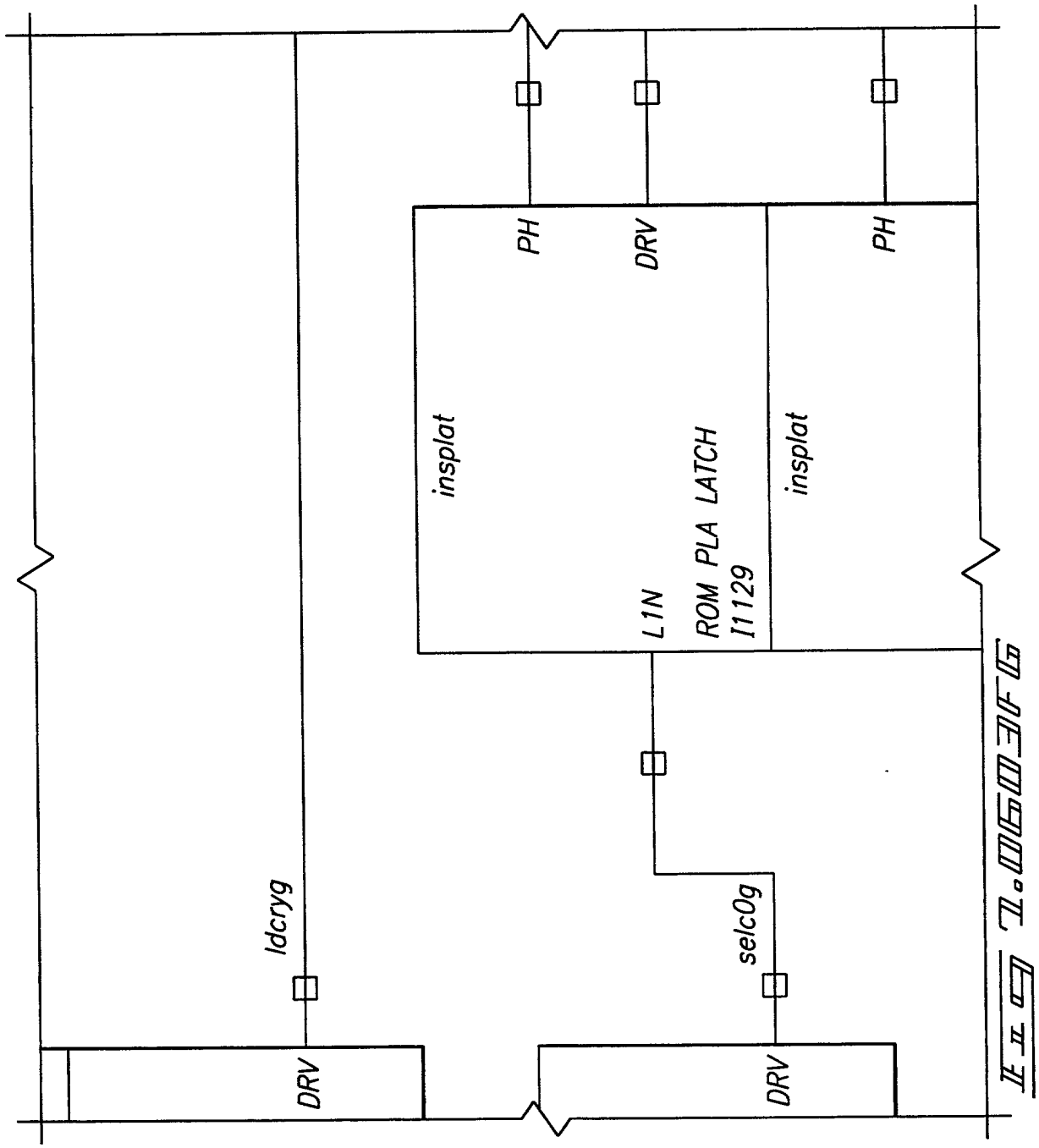
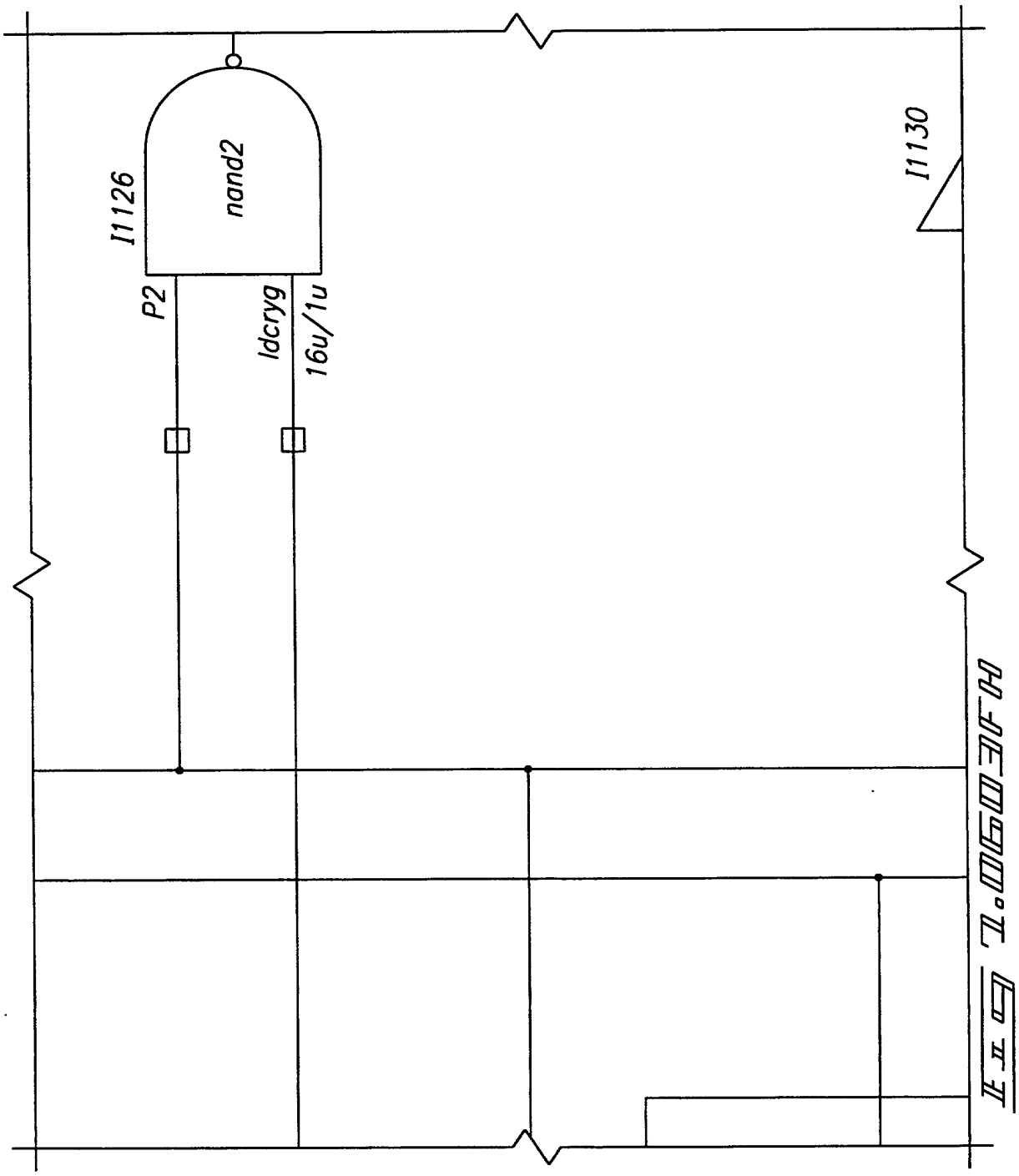

EV
inspamp
PLA AMP
I1128
DEC
EV
inspamp
PLA AMP
I1133
DEC
ldcryd
selc0d

FIG 0.0.0.0.E


PH
DRV
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insplat
L1N
ROM PLA LATCH
I1129
insplat
ldcryg
selc0g
DRV
DRV
Fig 6.0090.L



Patent Publication

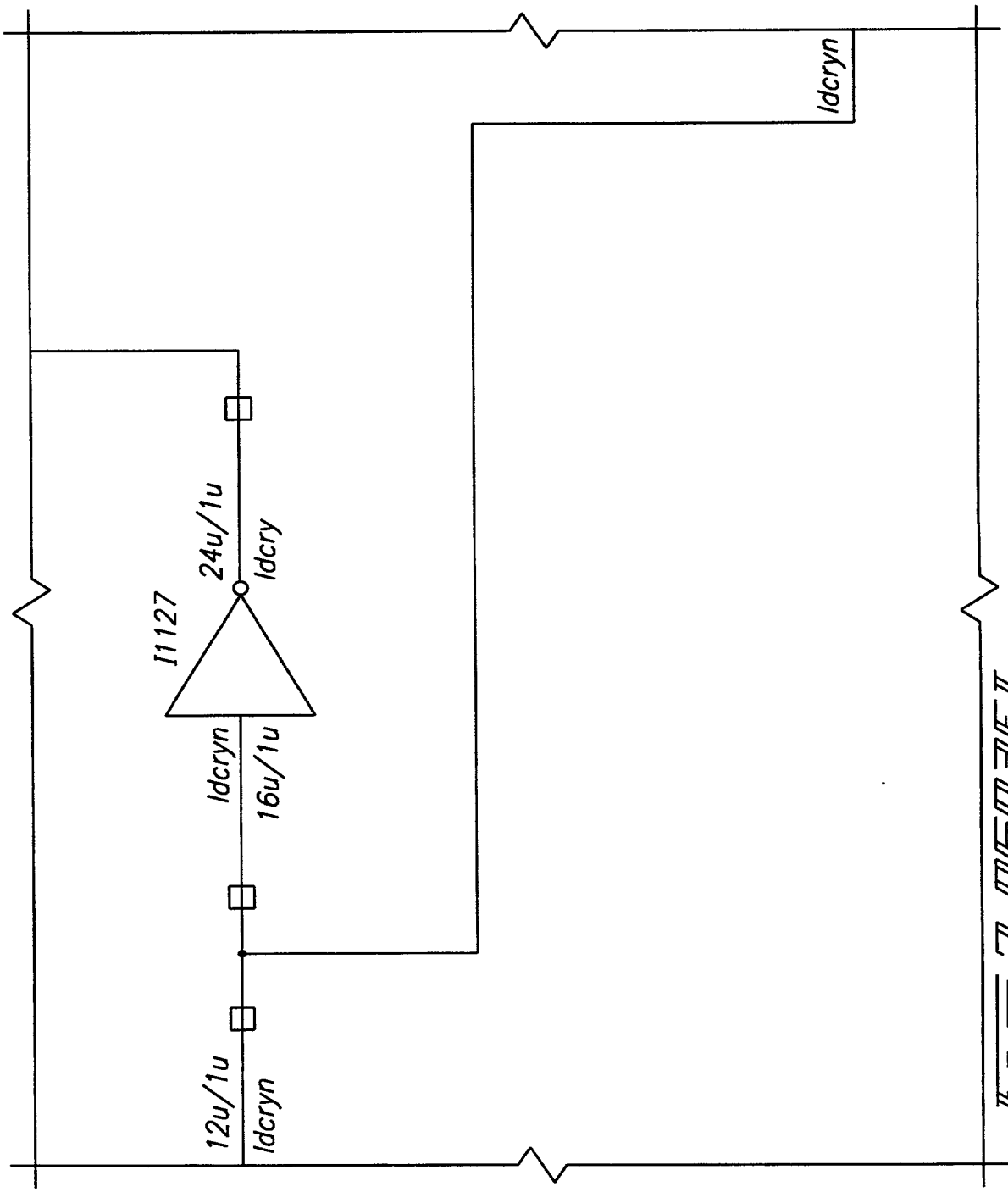
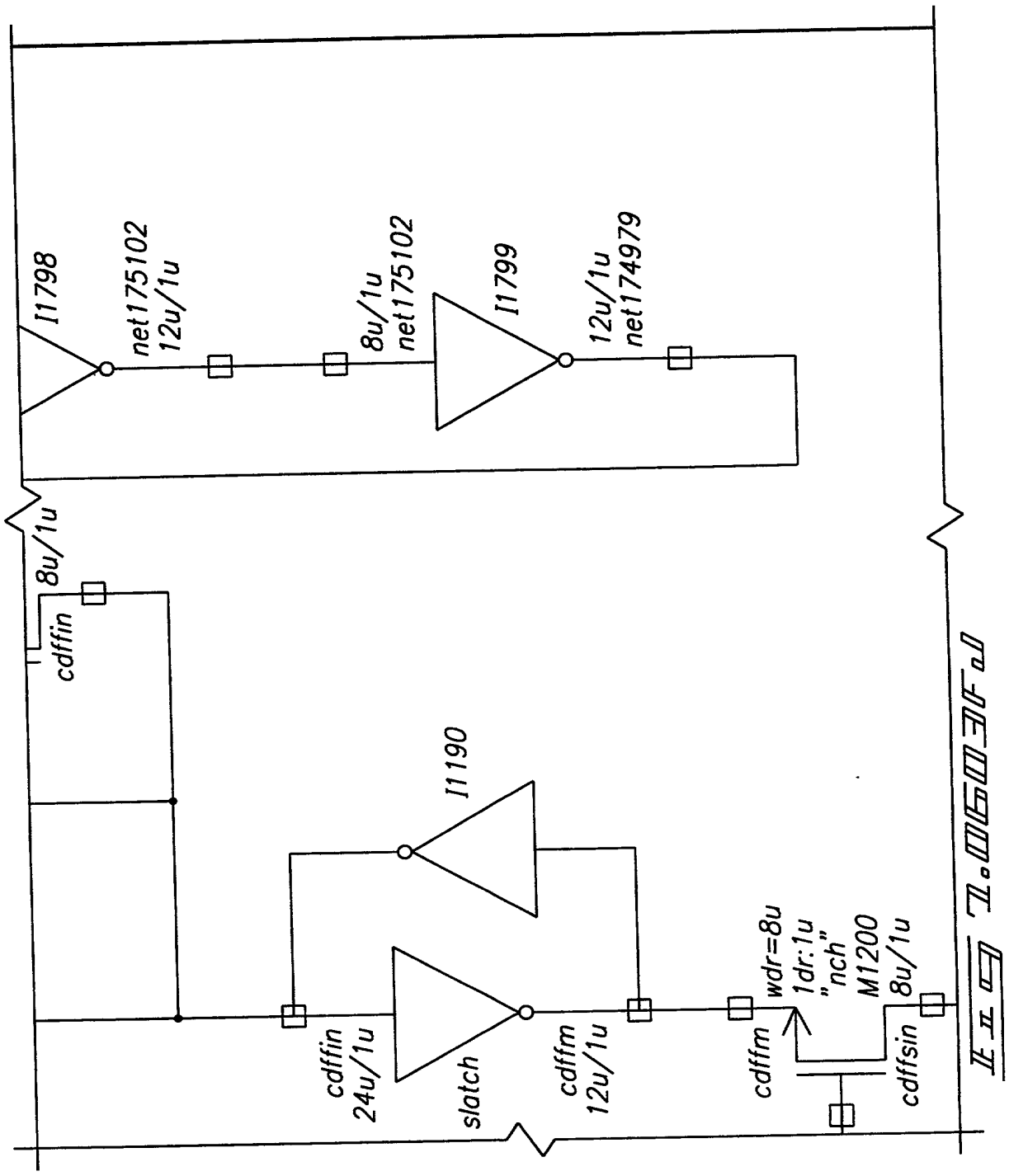
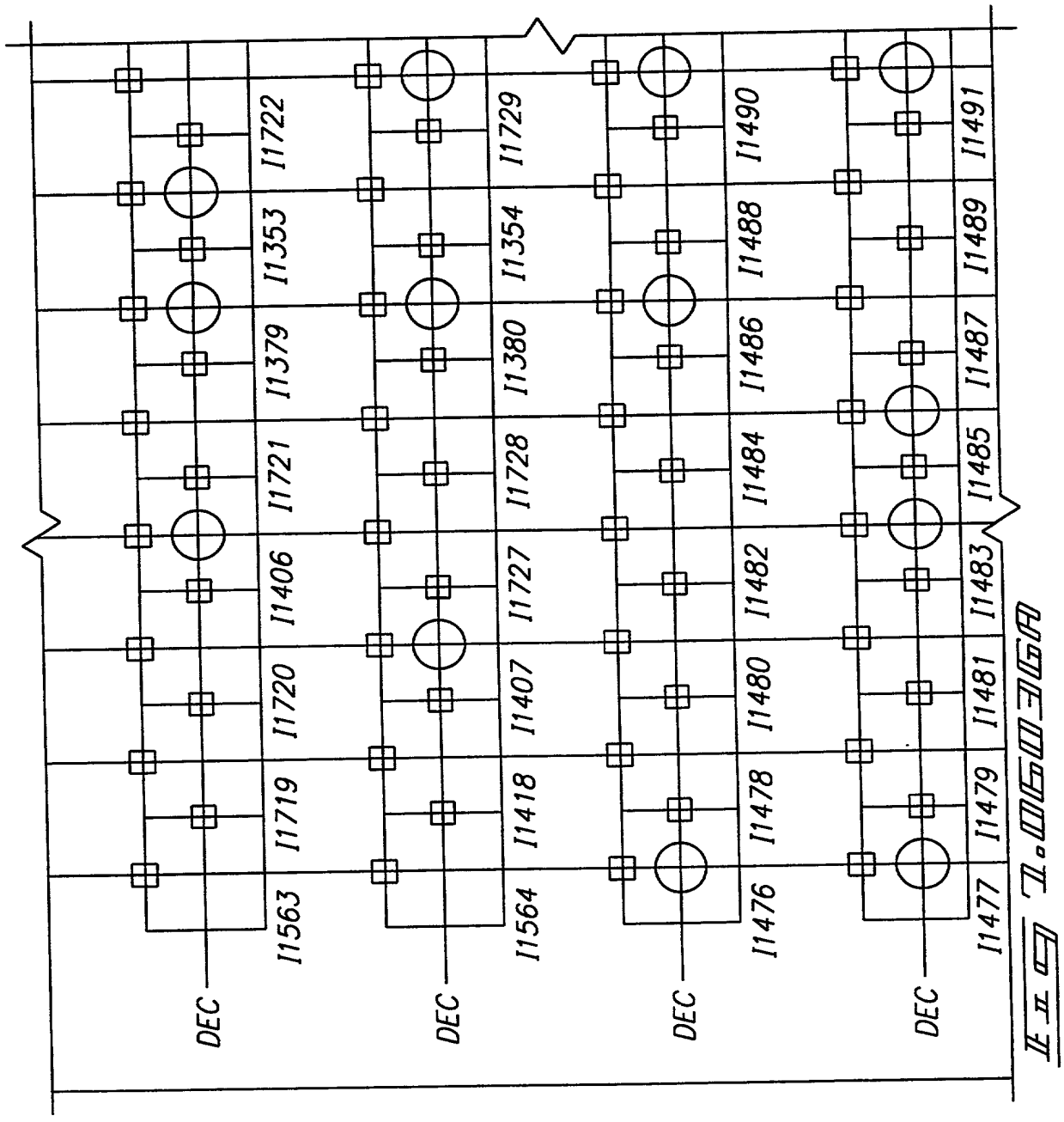
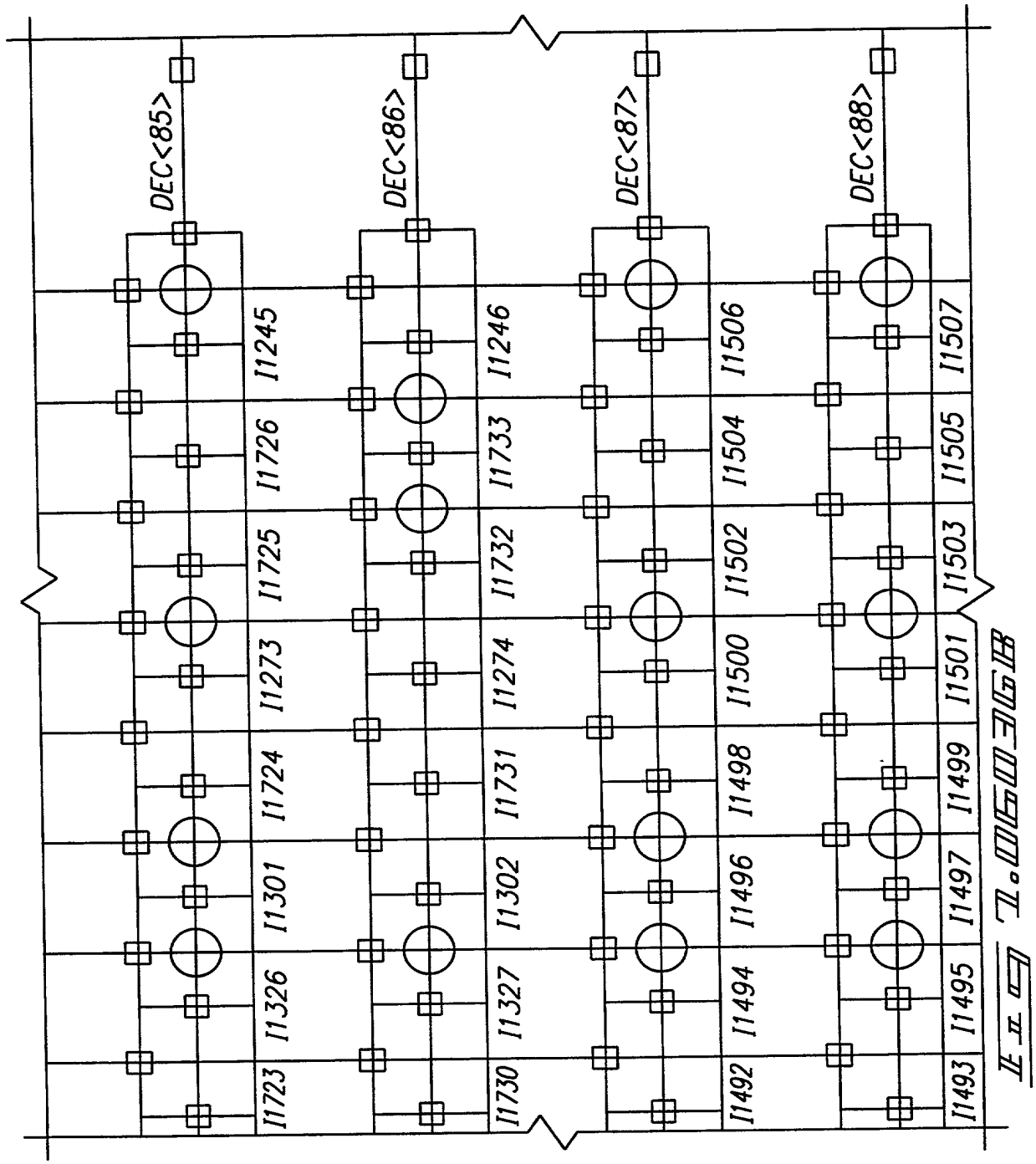


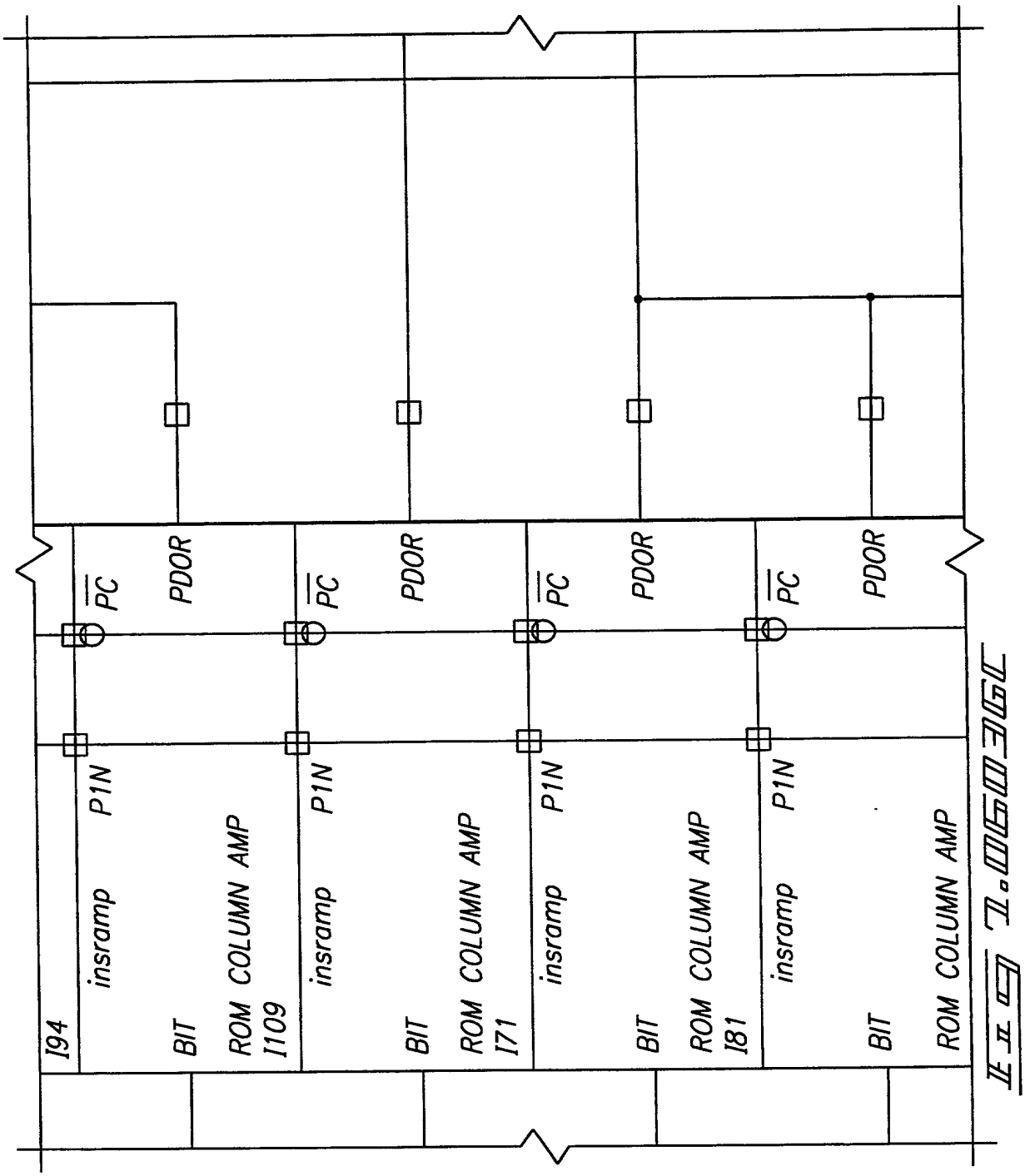
Fig 1.0090


I1798
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8u/1u
net175102
I1799
12u/1u
net174979
8u/1u
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I1190
cdffin
24u/1u
slatch
cdffm
12u/1u
cdffm
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1dr:1u
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M1200
8u/1u
cdffsin

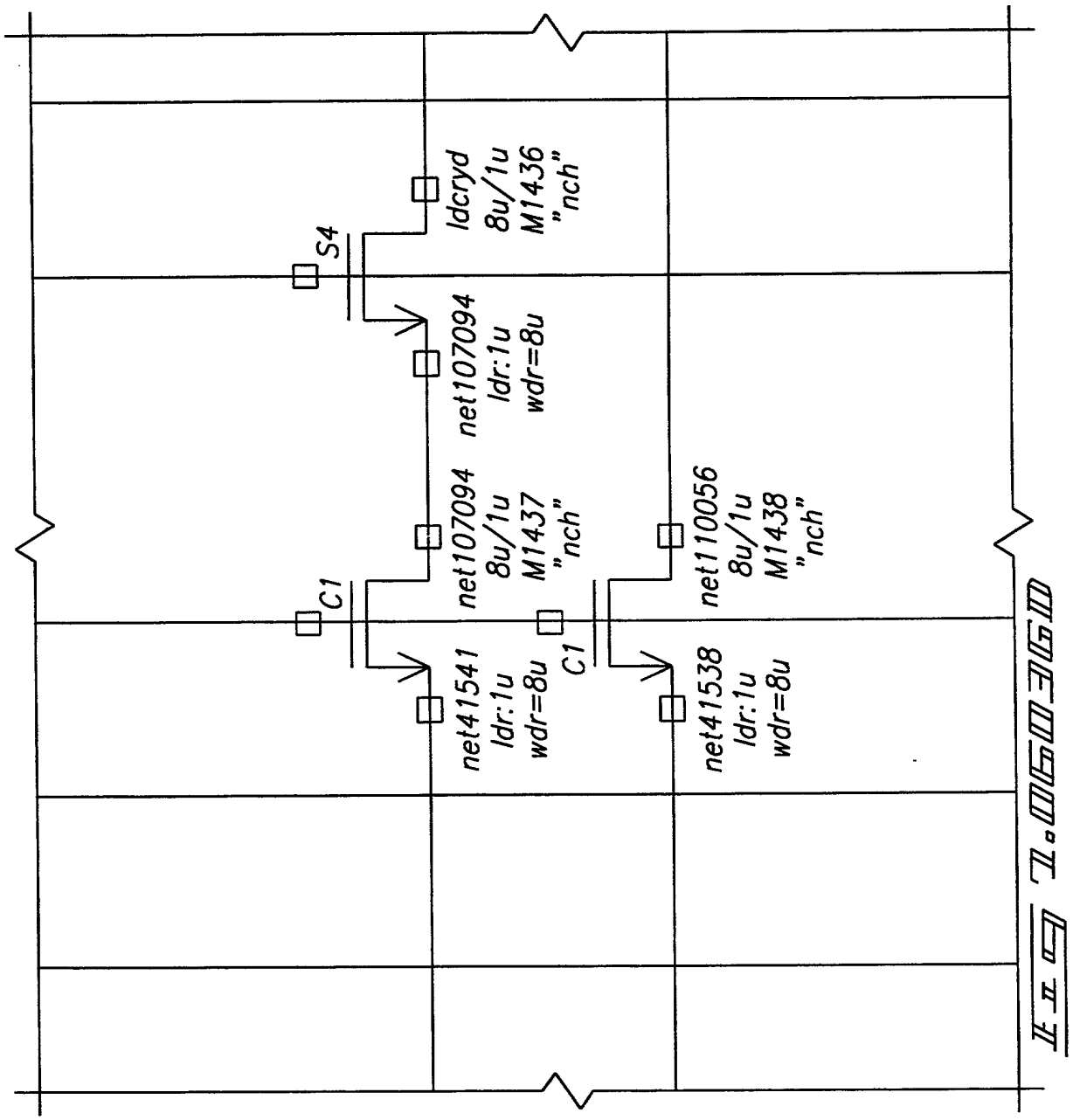

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I1564
I1418
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I1727
I1728
I1380
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DEC
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I1489
I1491



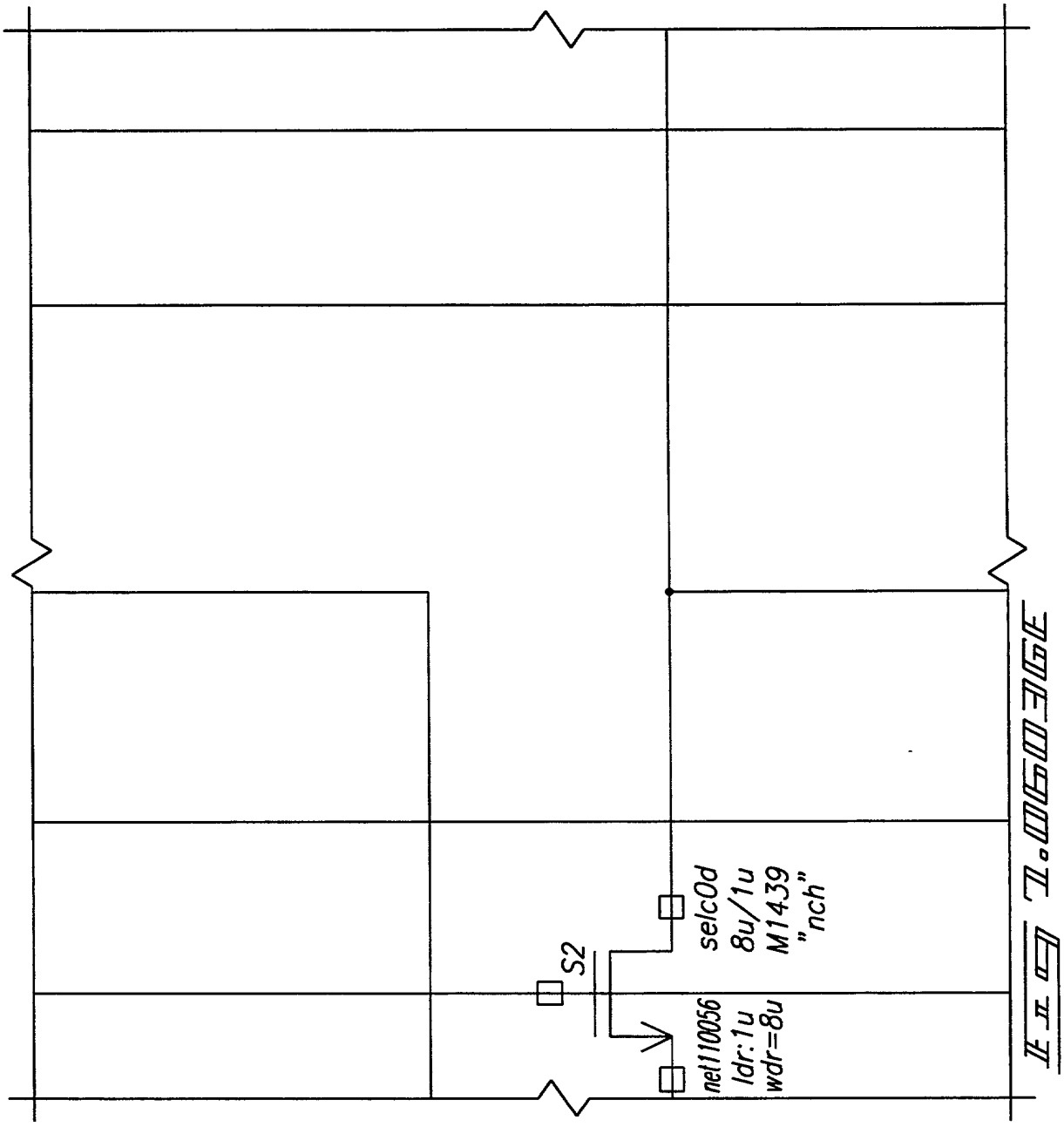
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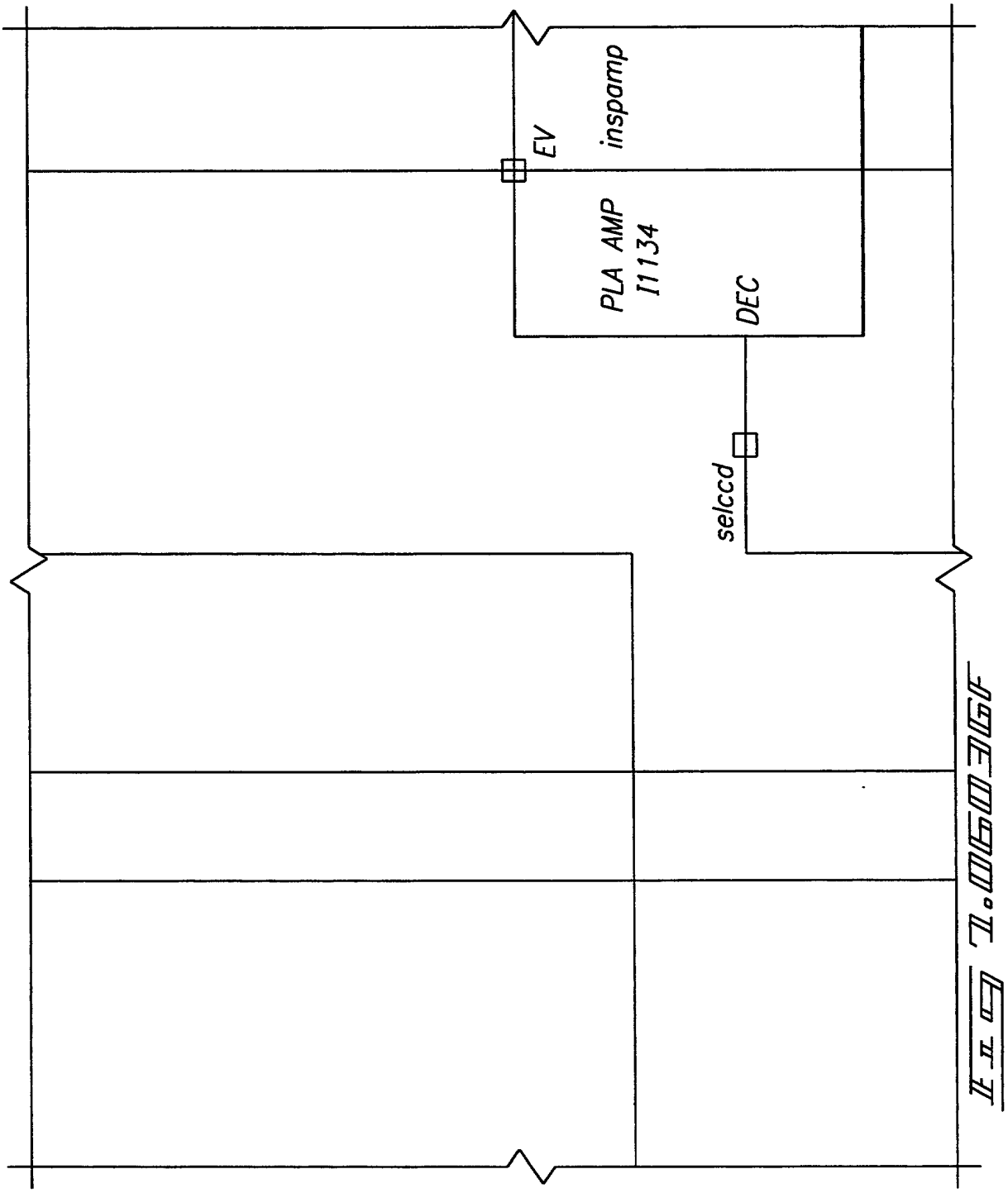


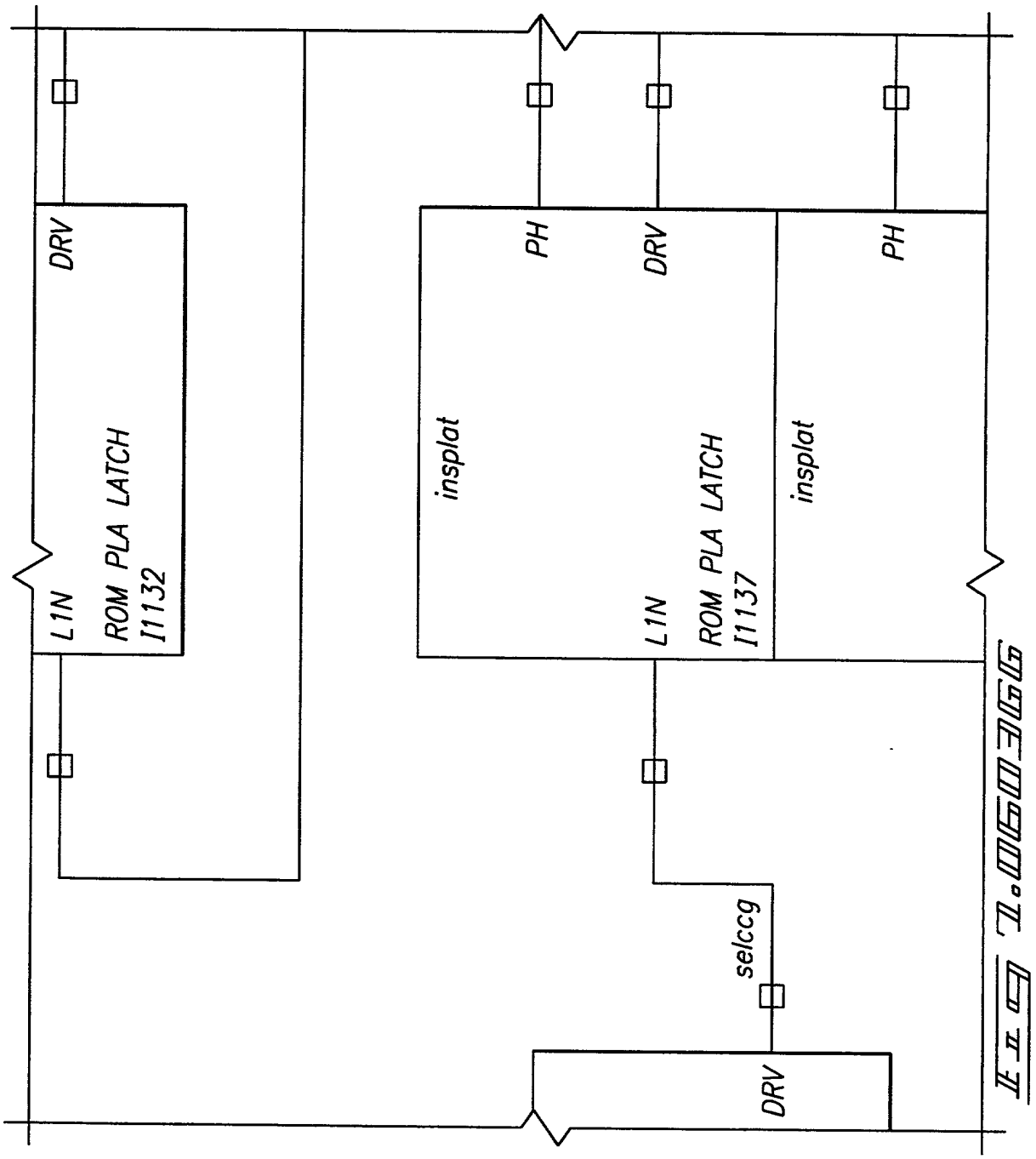
ФИГ. 9



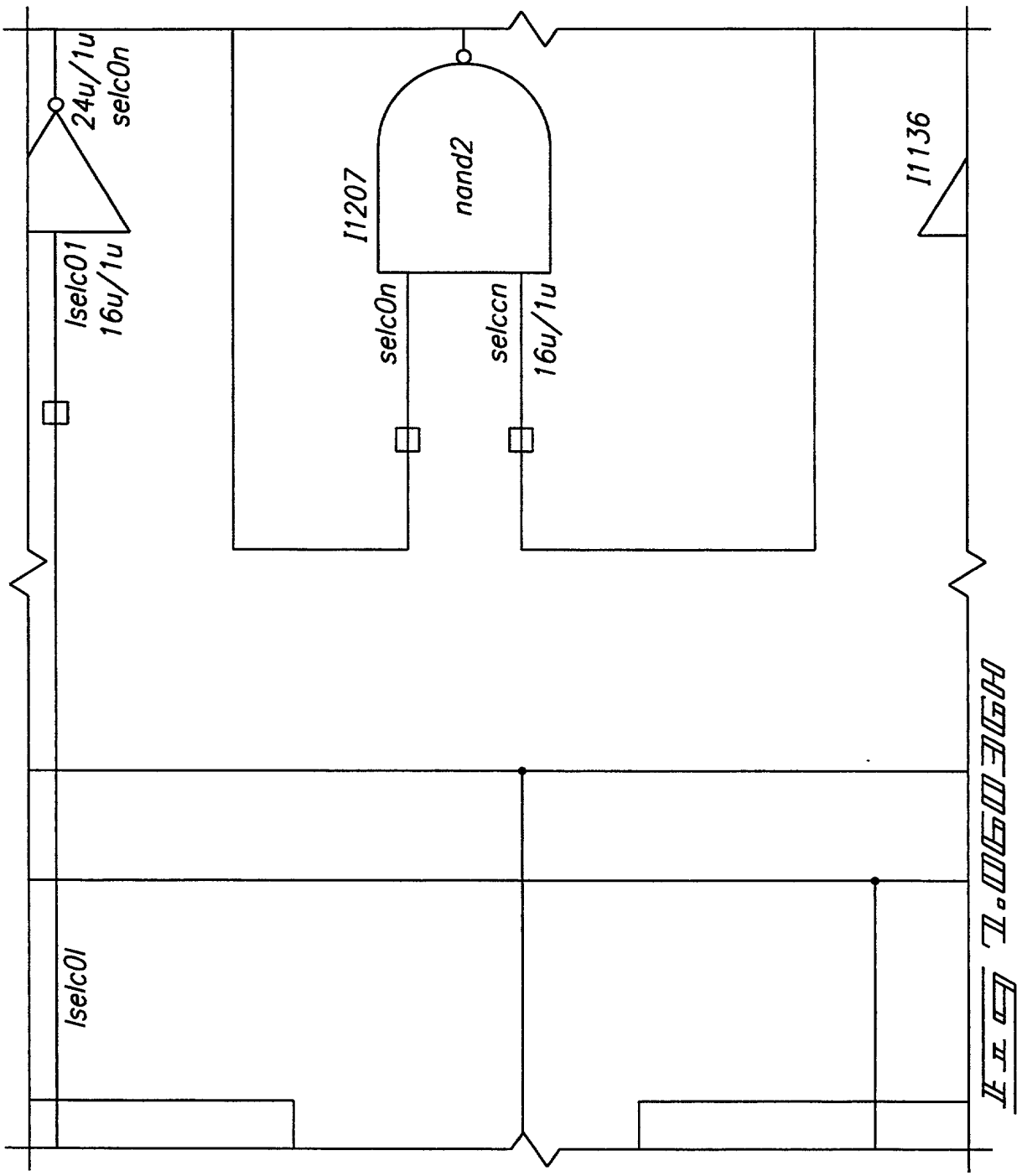
Patent-2505964

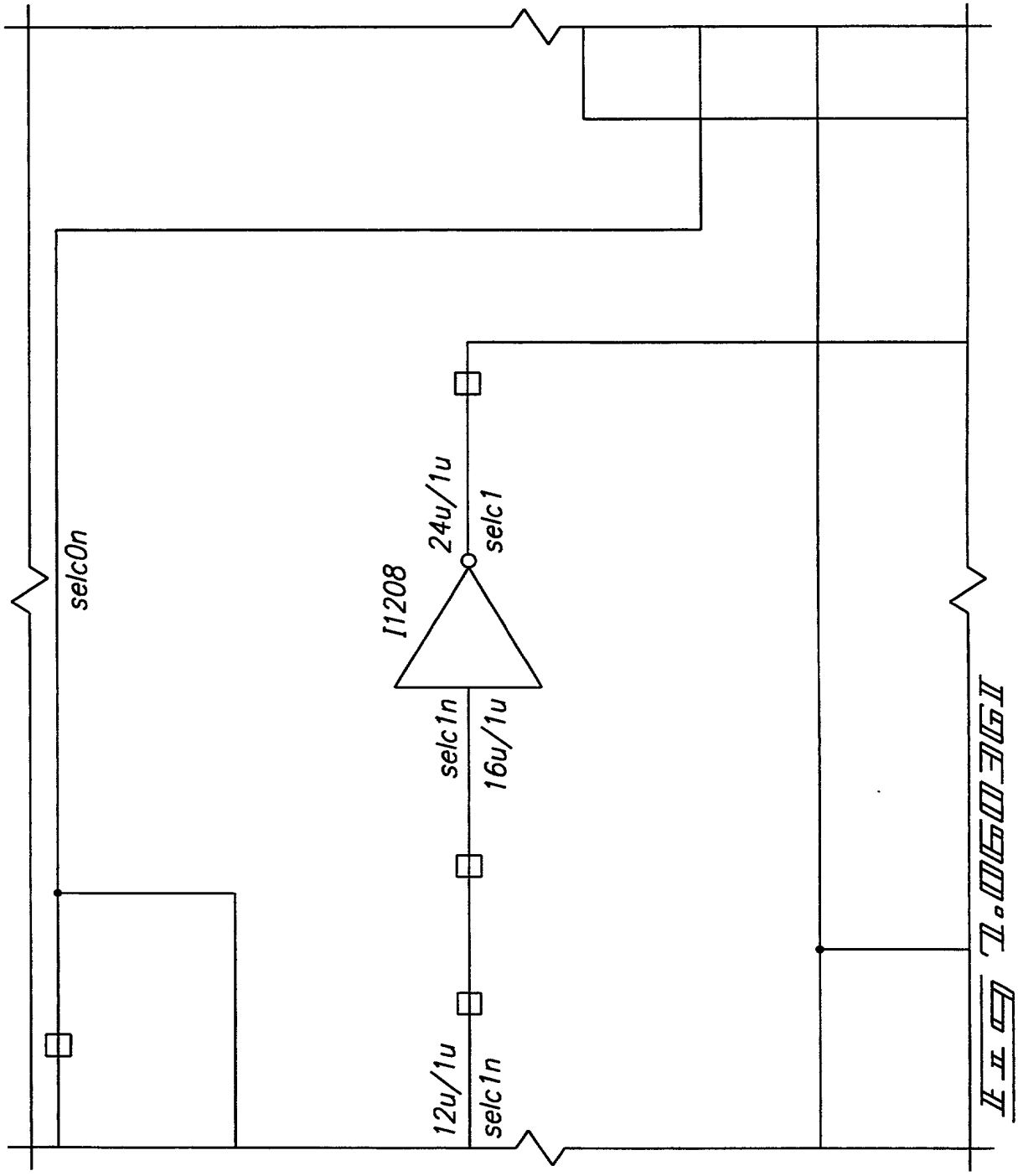

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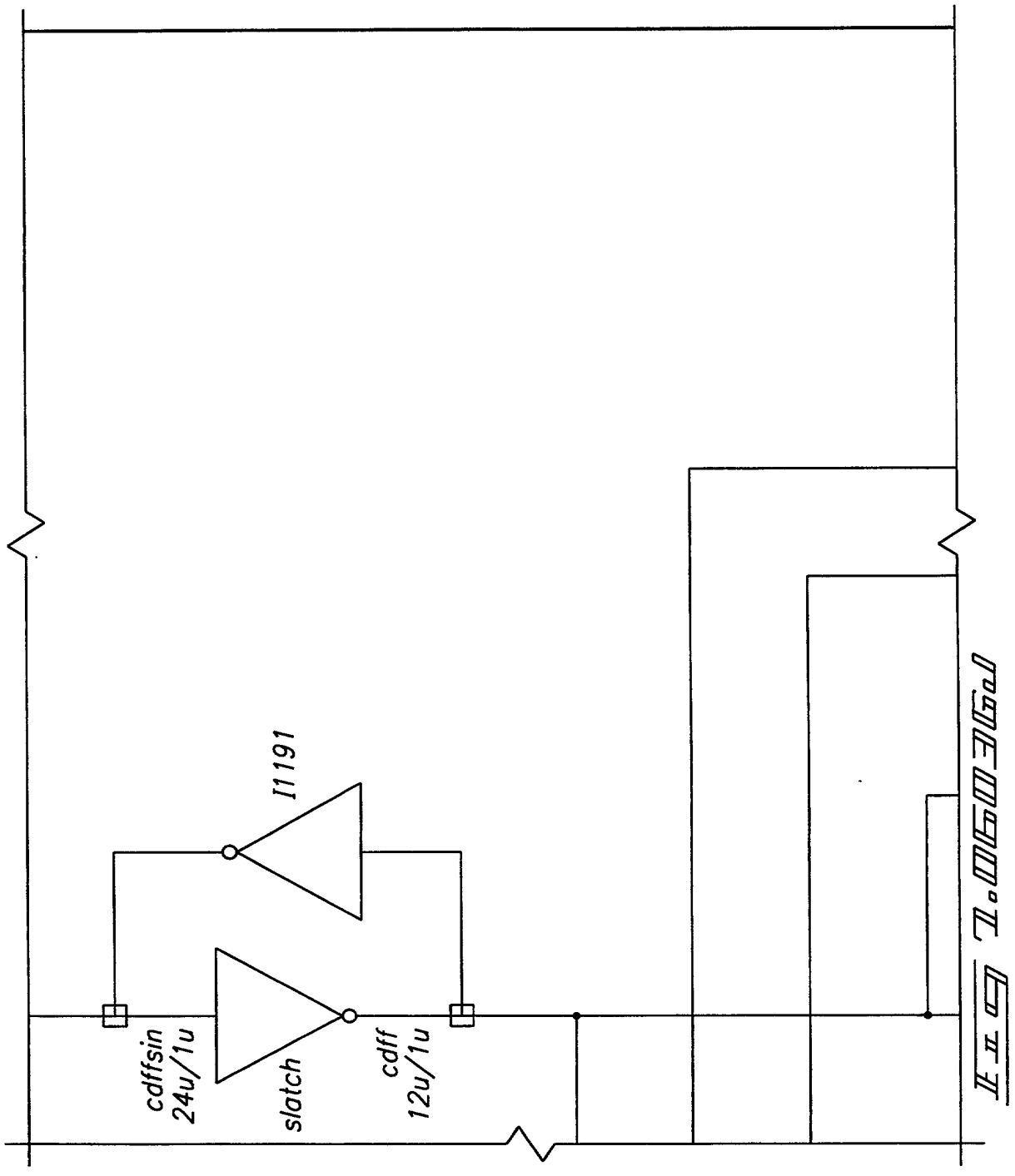

EV
inspamp
PLA AMP
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DEC
selccd
БЛОК L

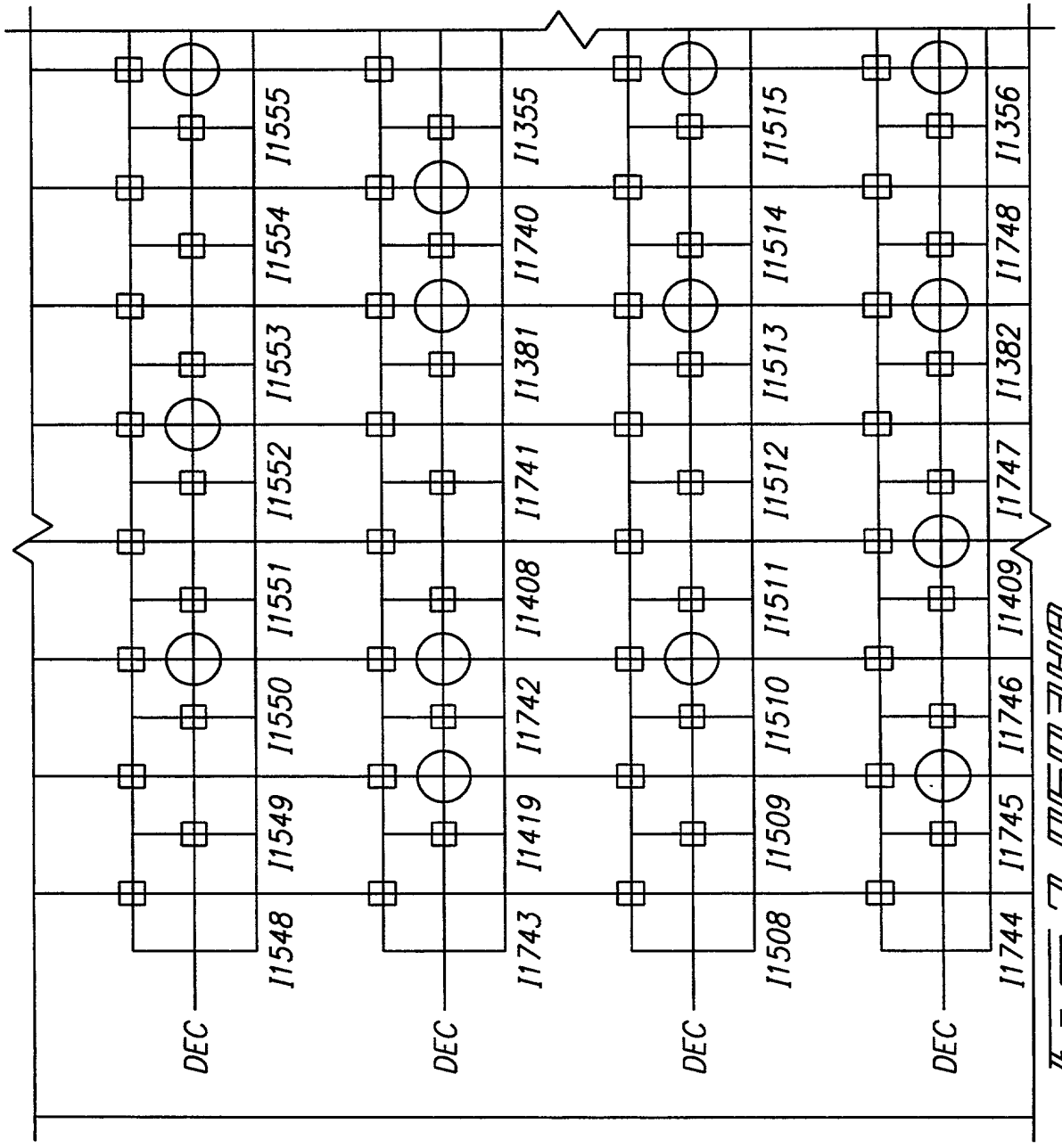


Patent Application Publication


24u/1u
selc0n
I1207
nand2
I1136
Iselc01
16u/1u
selc0n
selccn
16u/1u
Iselc0l


selc0n
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ВЫБОР "1" ИЗ 8

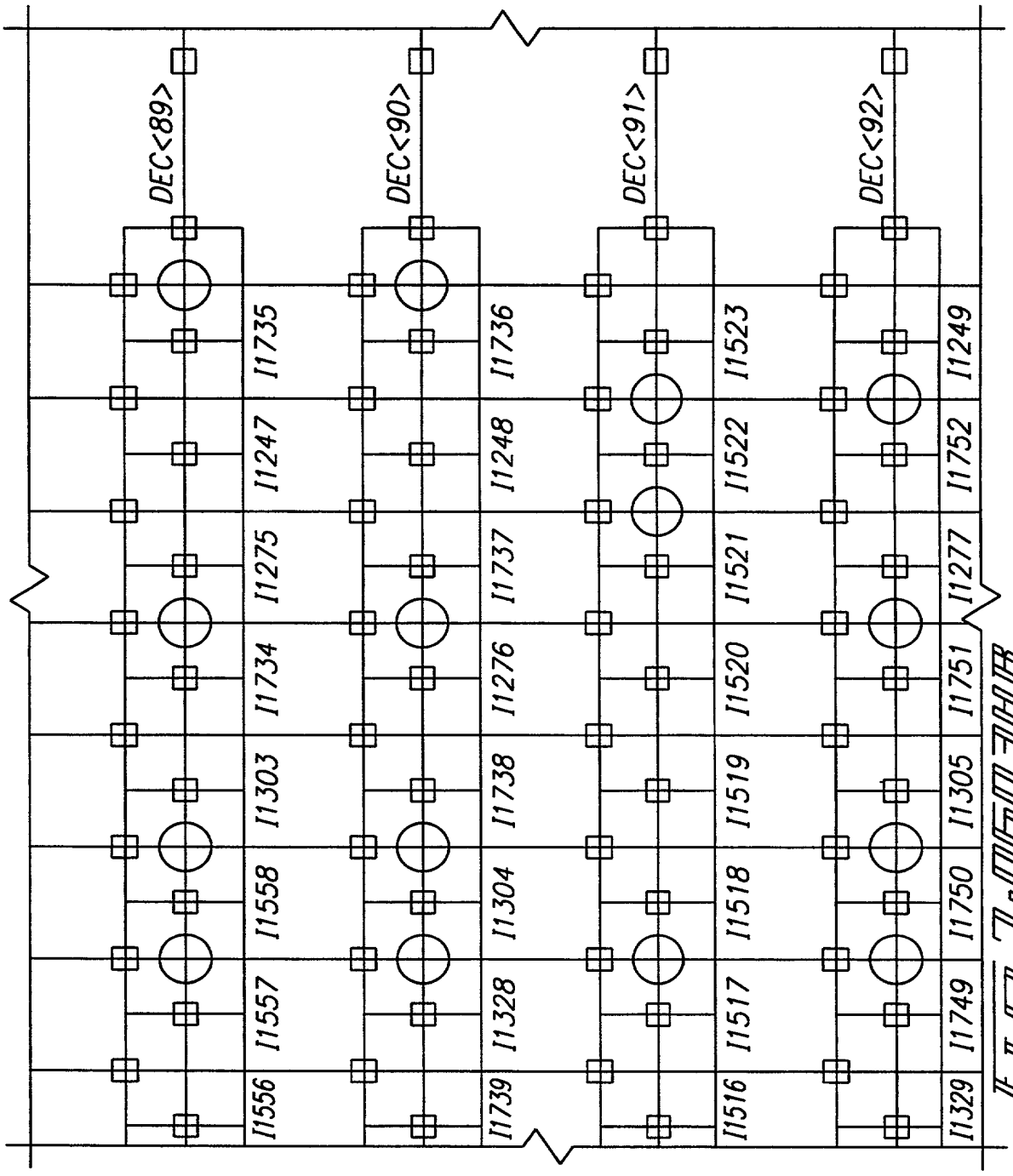

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24u/1u
slatch
cdff
12u/1u

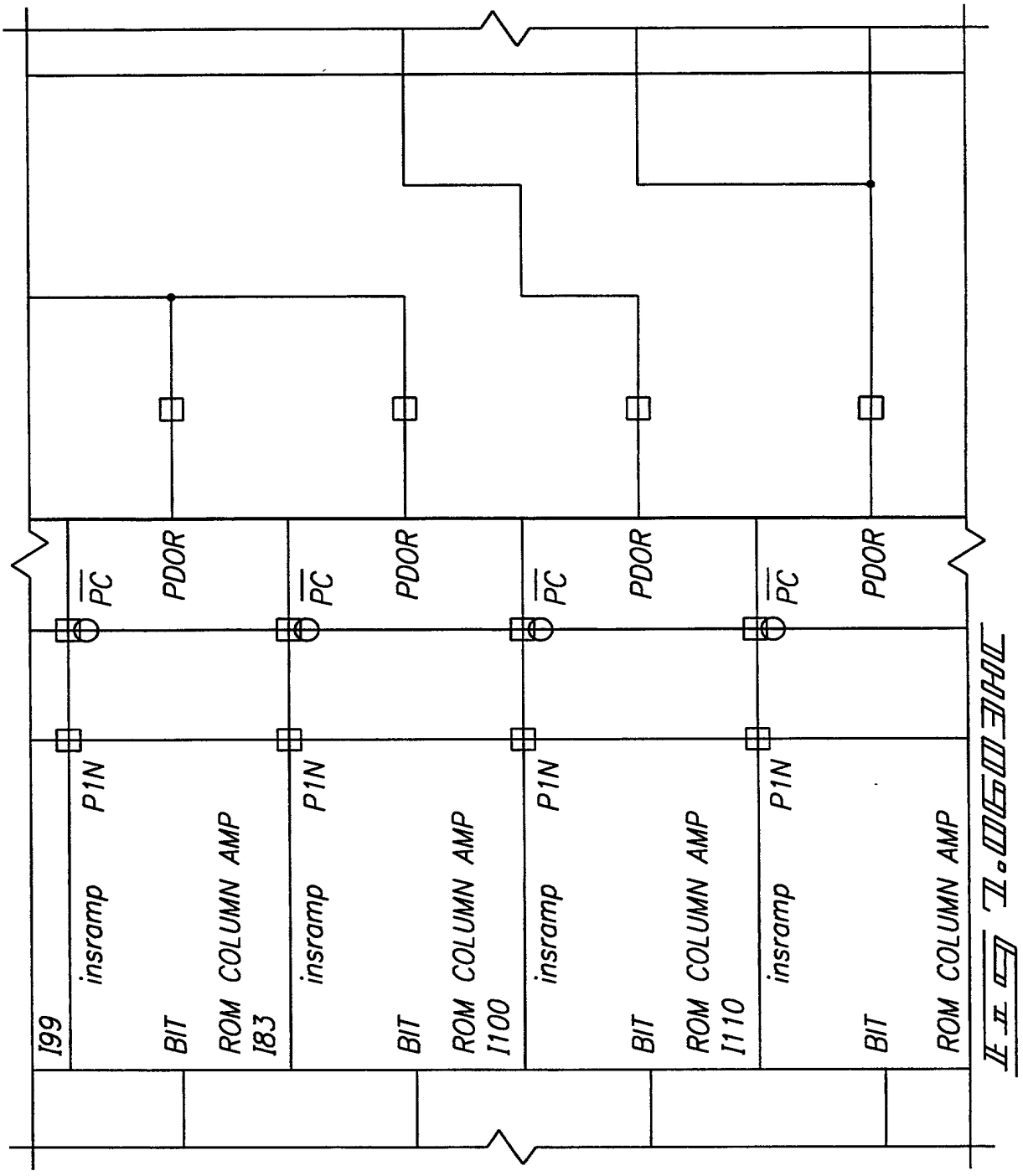


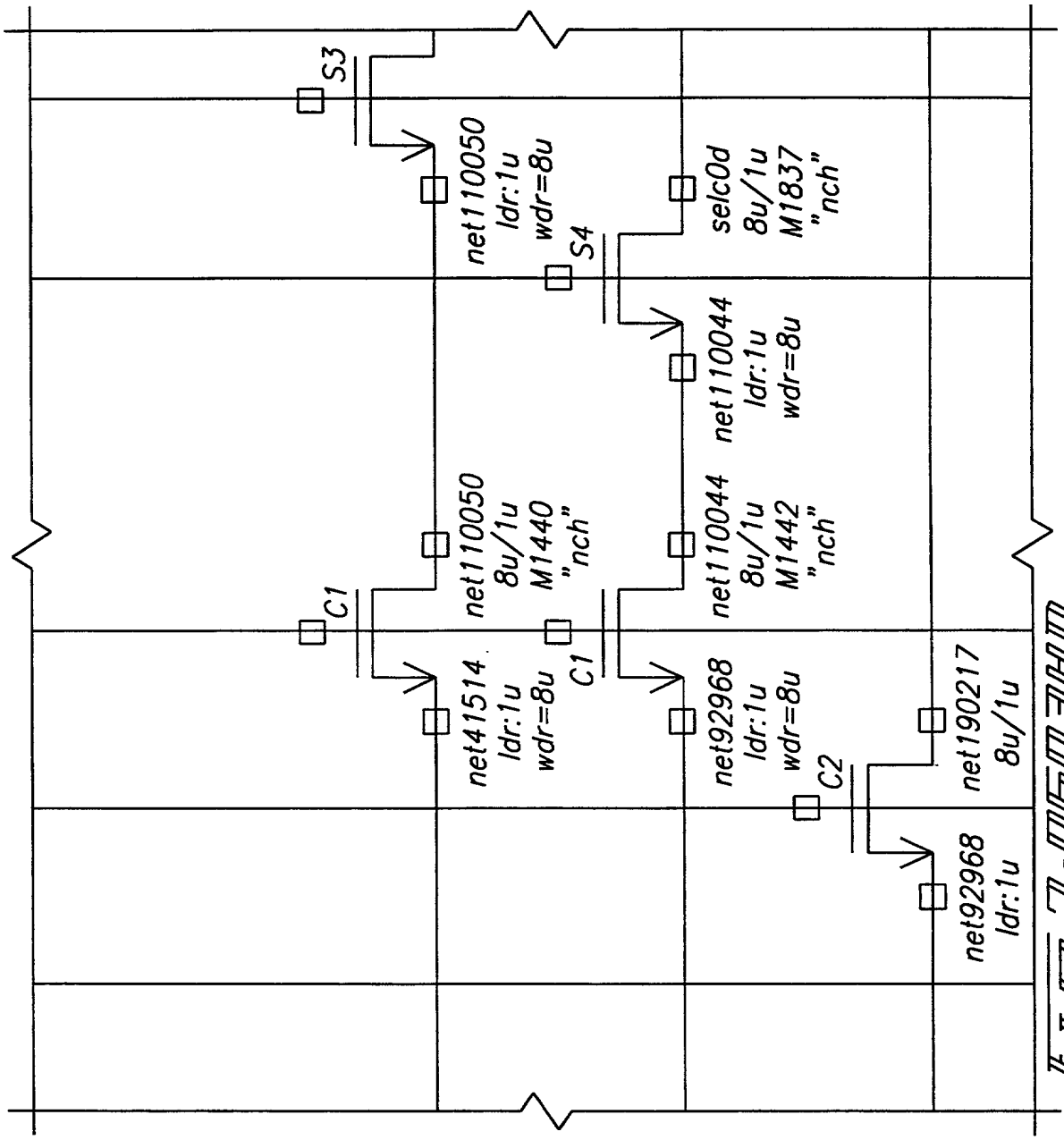
Фиг. 5

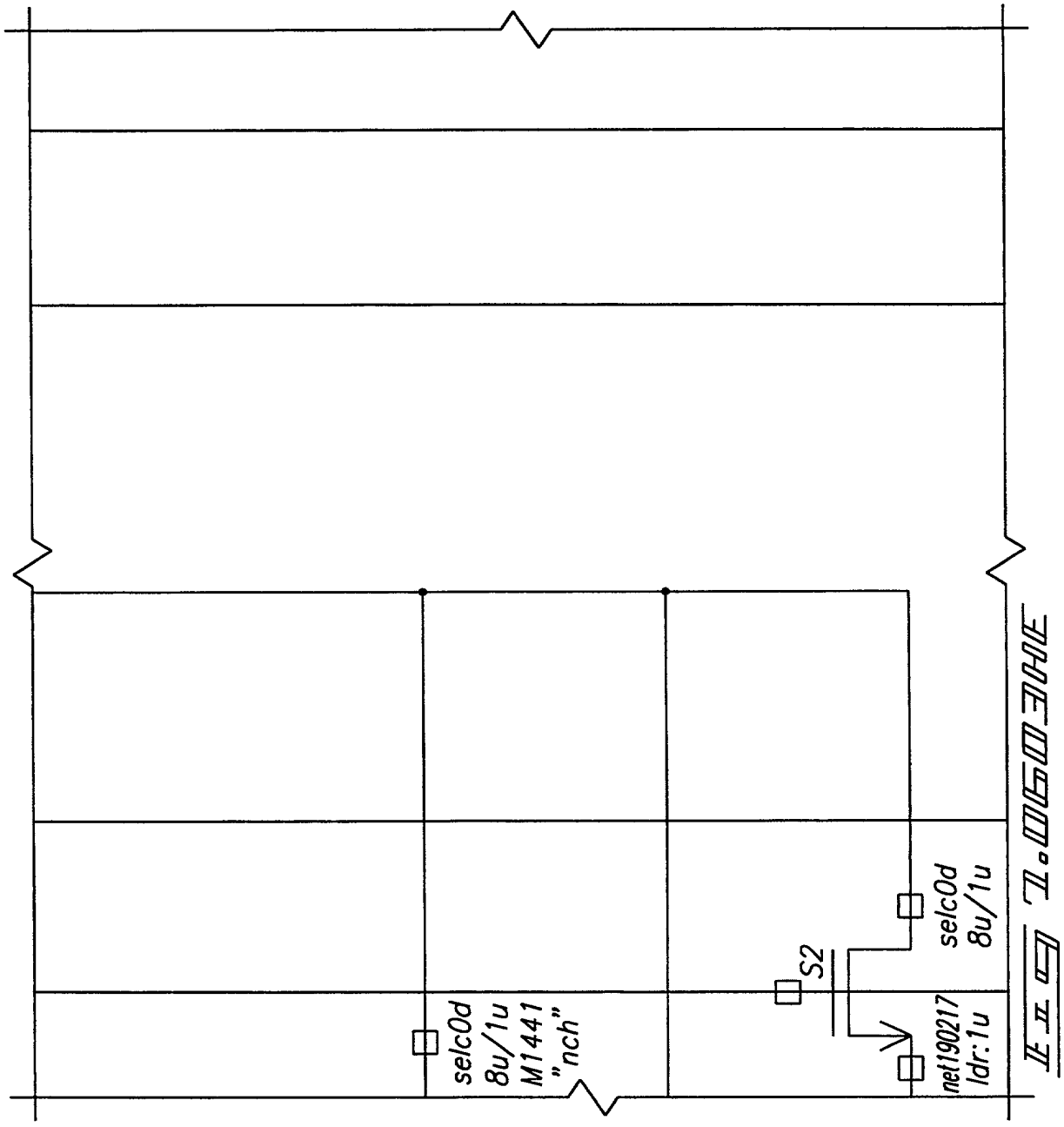
EP 1 450 249 A1

T01150-20020860

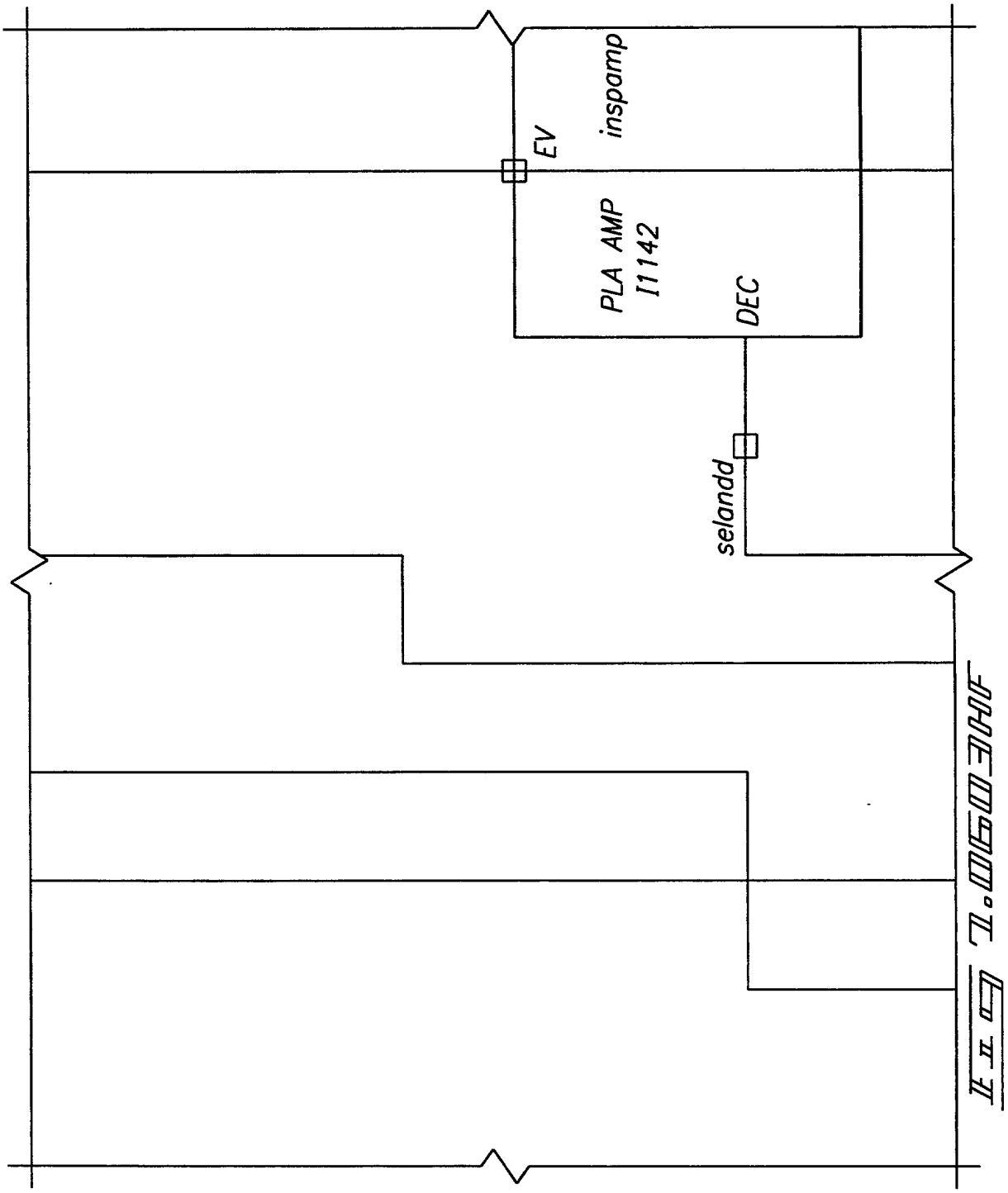



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P1N
PC
PDOR
BIT
ROM COLUMN AMP
I83
I100
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ЛИСТ 1.0500.11

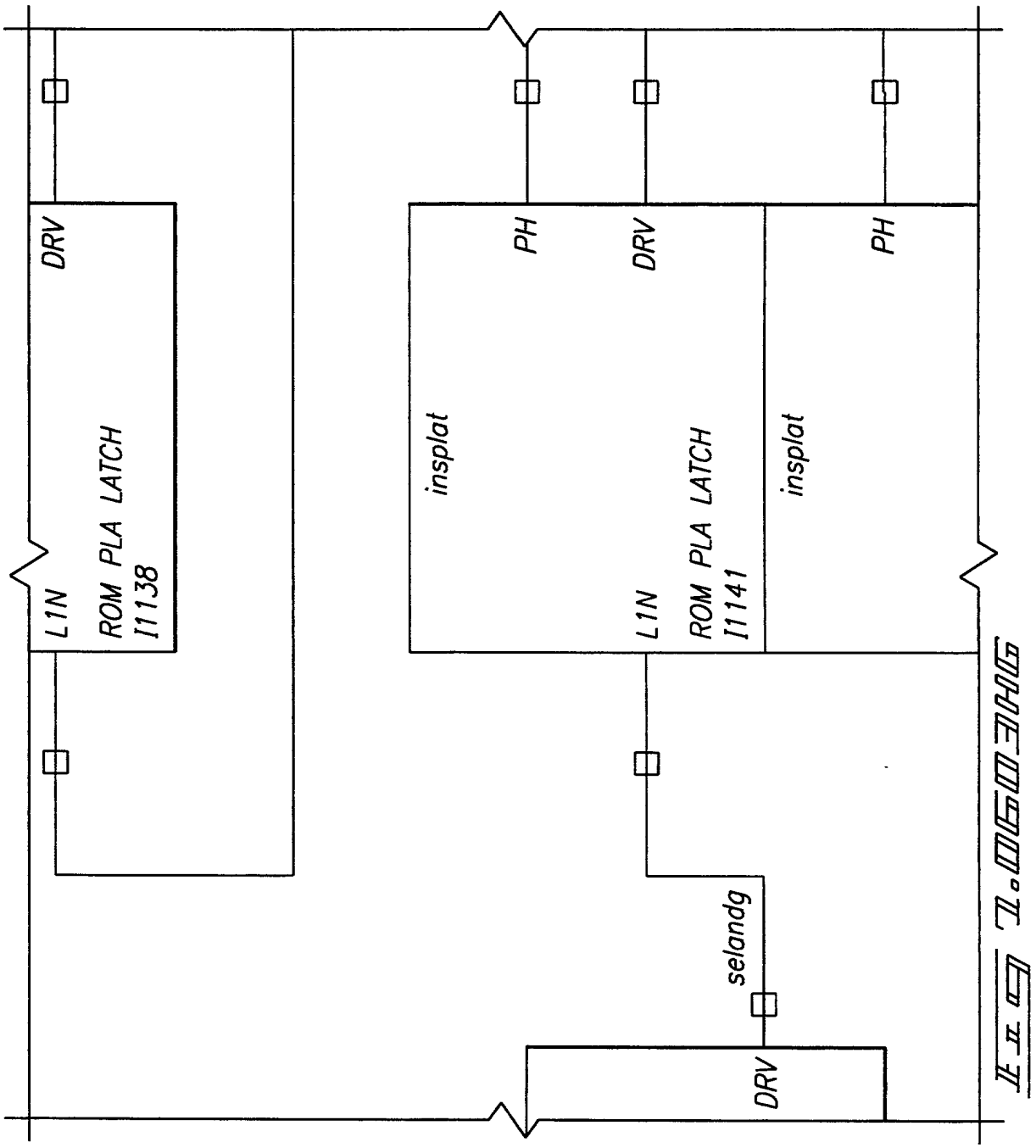

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Фиг. 1

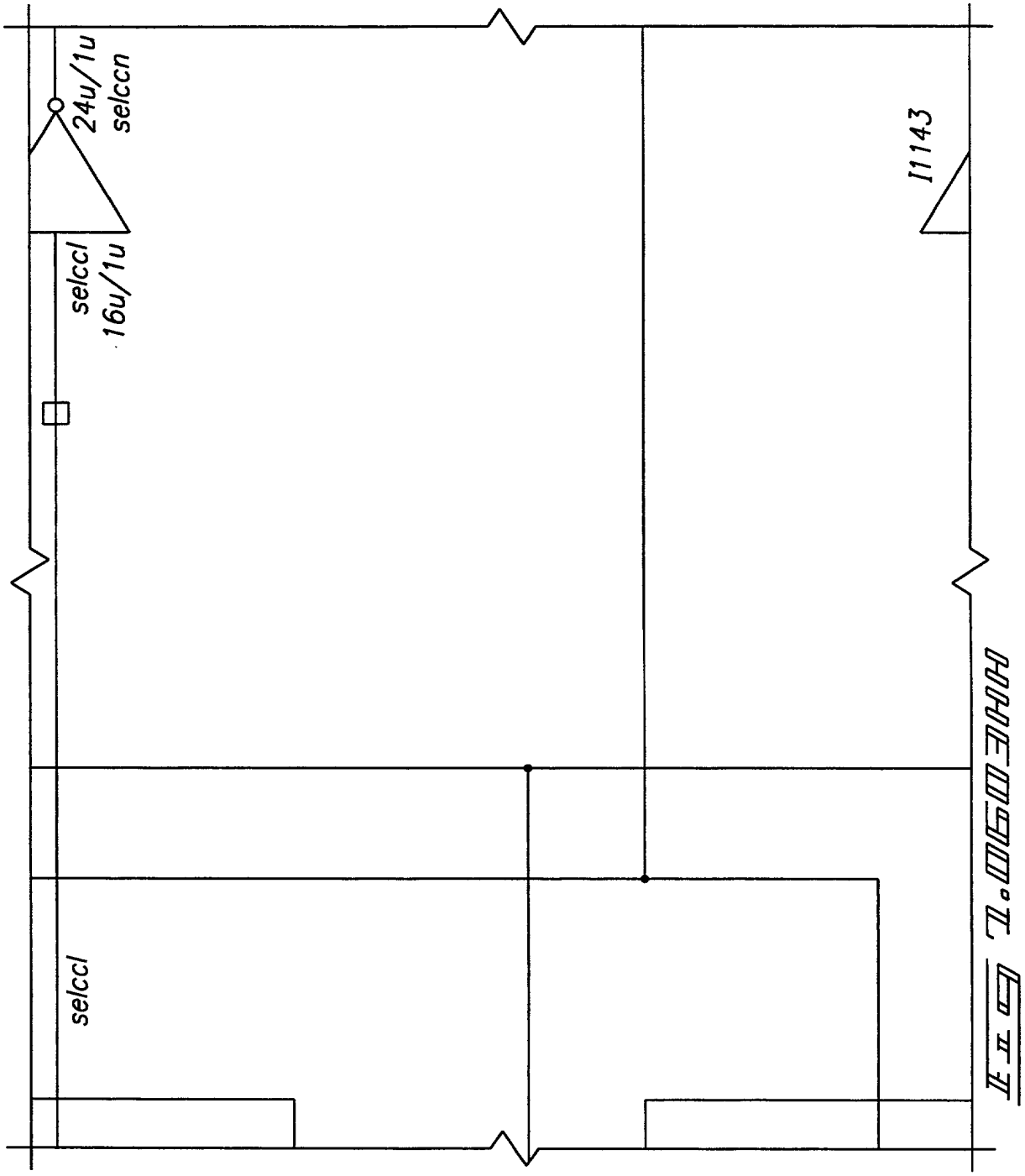


Patent application publication



EP 0 962 915 A2


DRV
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ROM PLA LATCH
I1138
PH
DRV
PH
insplat
insplat
L1N
ROM PLA LATCH
I1141
selandg
DRV
SHIFTOUT.L



Printed: 25/02/2004

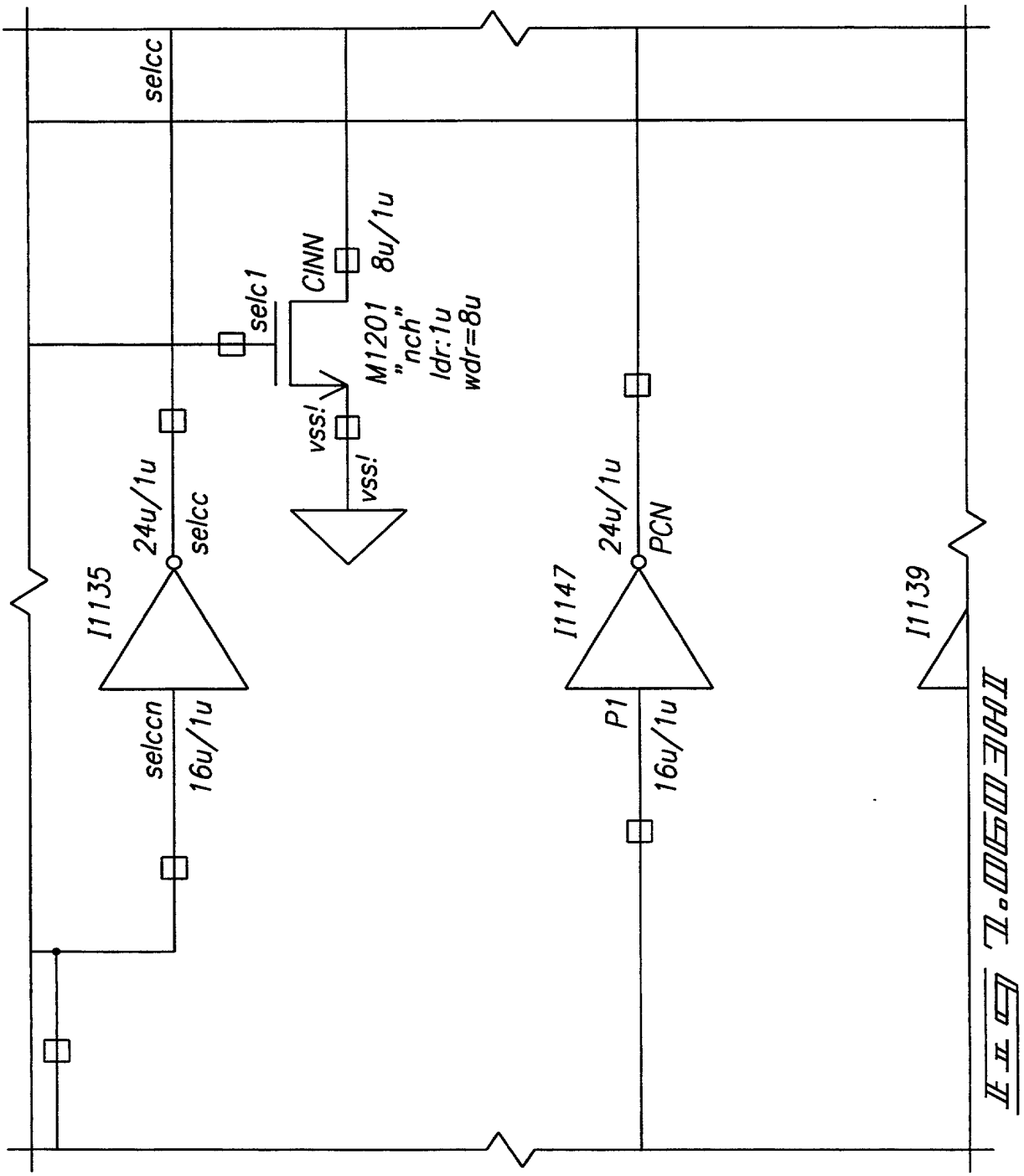
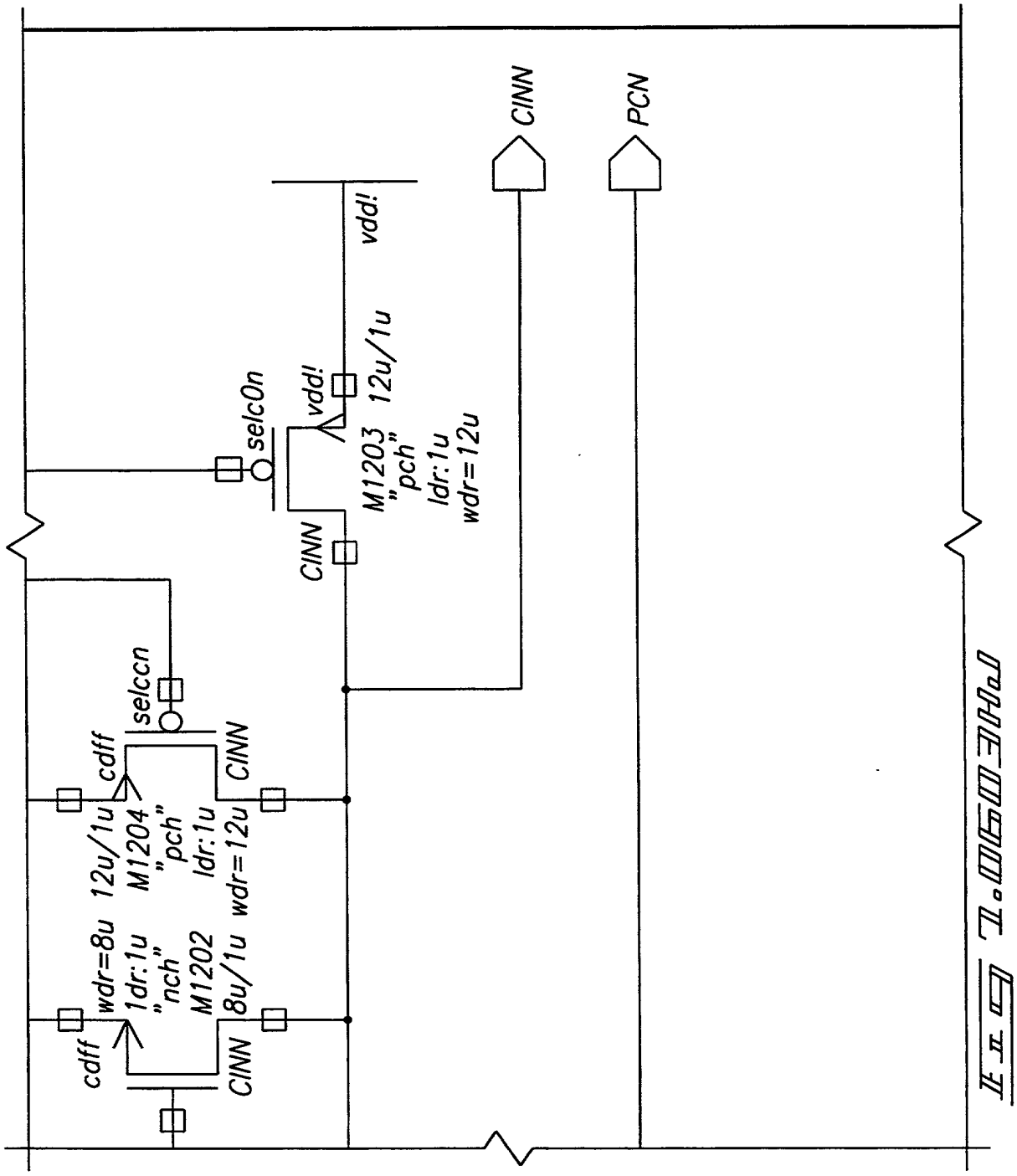
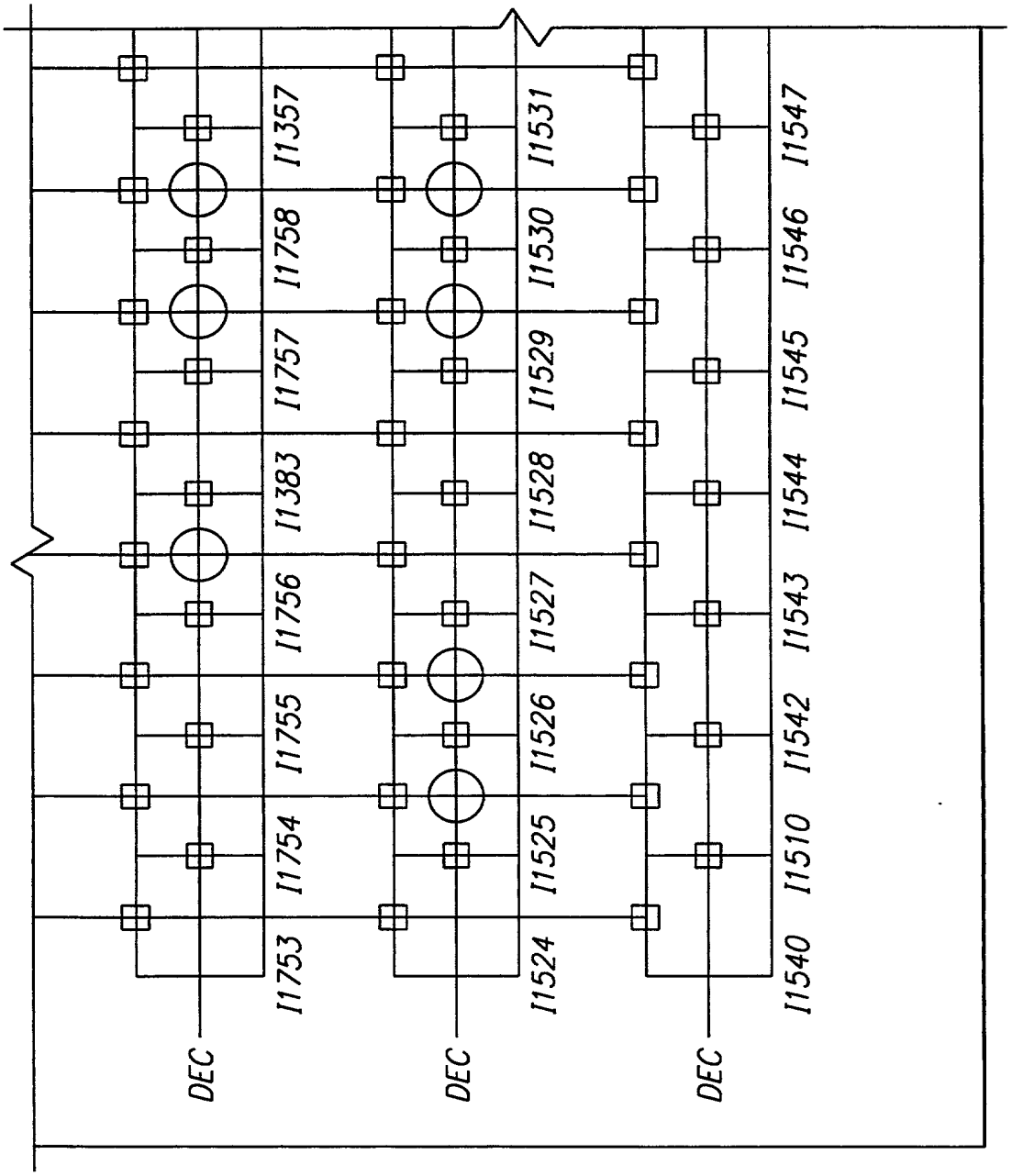

selcc
selc1
CINN
8u/1u
M1201
"nch"
ldr:1u
wdr=8u
vss!
vss!
24u/1u
selcc
I1135
selccn
16u/1u
24u/1u
PCN
I1147
P1
16u/1u
I1139

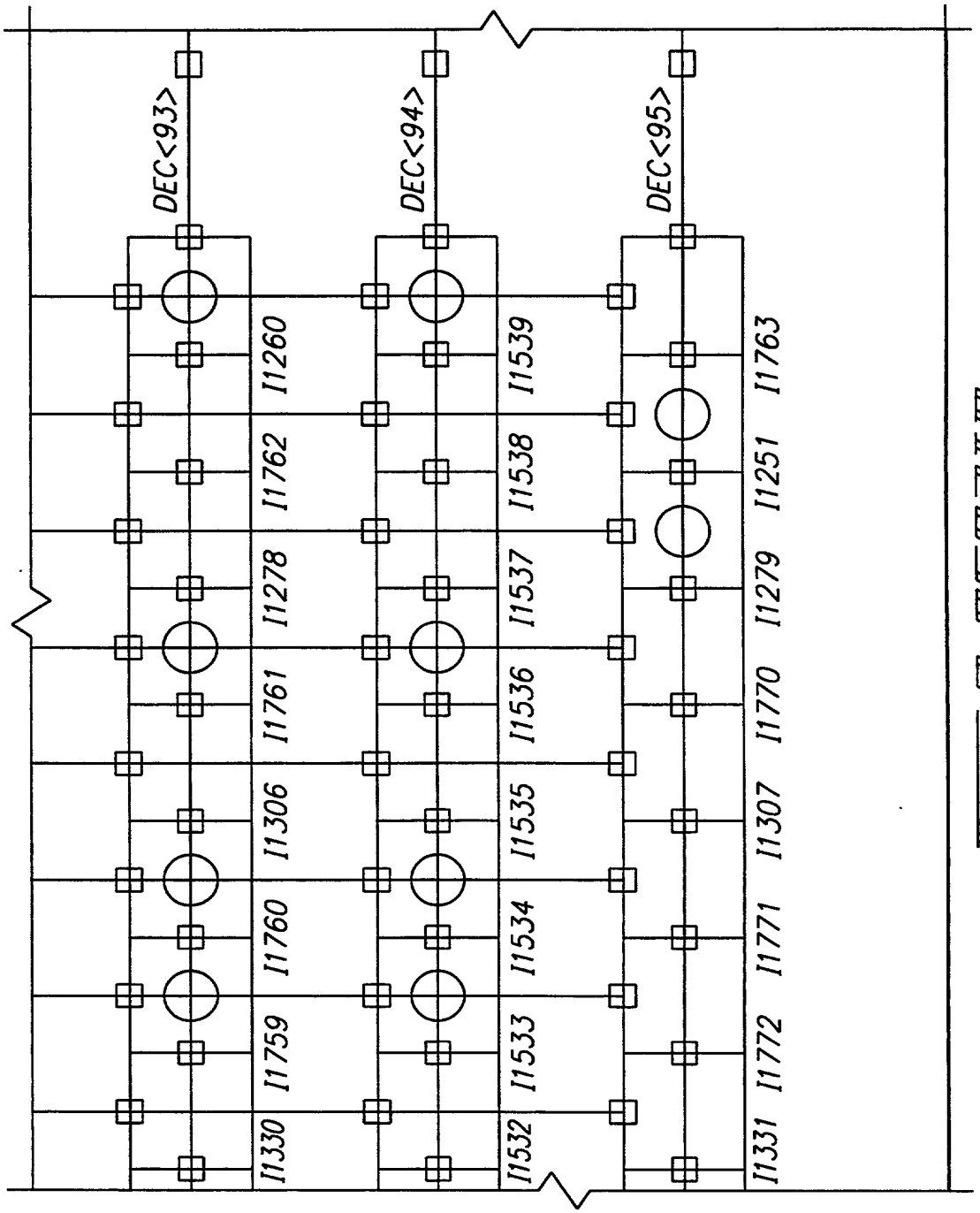
FIG 5.0500.L


CINN
PCN
vdd!
selc0n
vdd!
M1203 12u/1u
"pch"
ldr:1u
wdr=12u
CINN
selccn
cdff
12u/1u
M1204
"pch"
ldr:1u
wdr=12u
CINN
cdff
wdr=8u
1dr:1u
"nch"
M1202
8u/1u
CINN



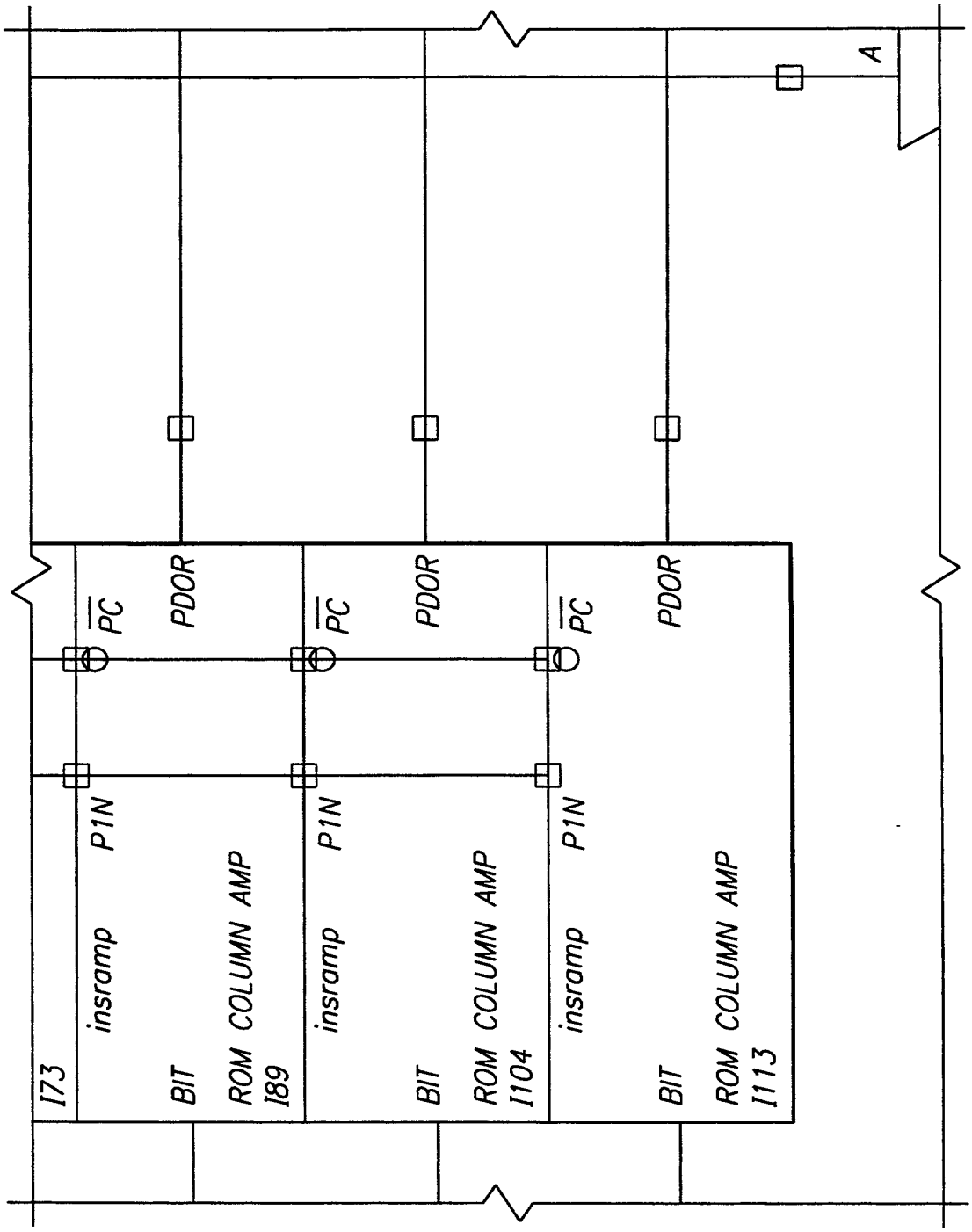
ВИД Б

Подлежит возврату



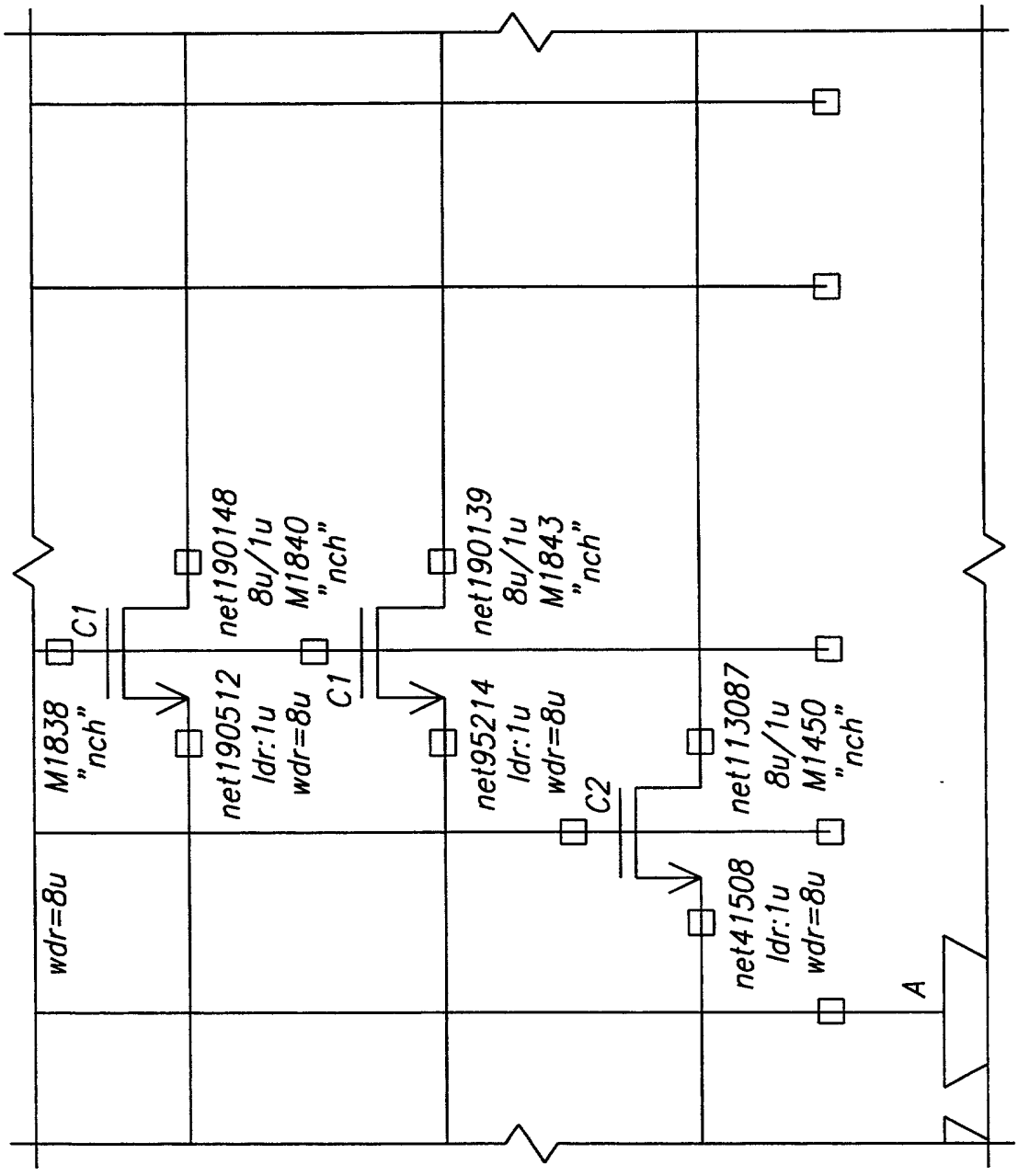
ФИГ. 5

Patent Application



Фиг. 9

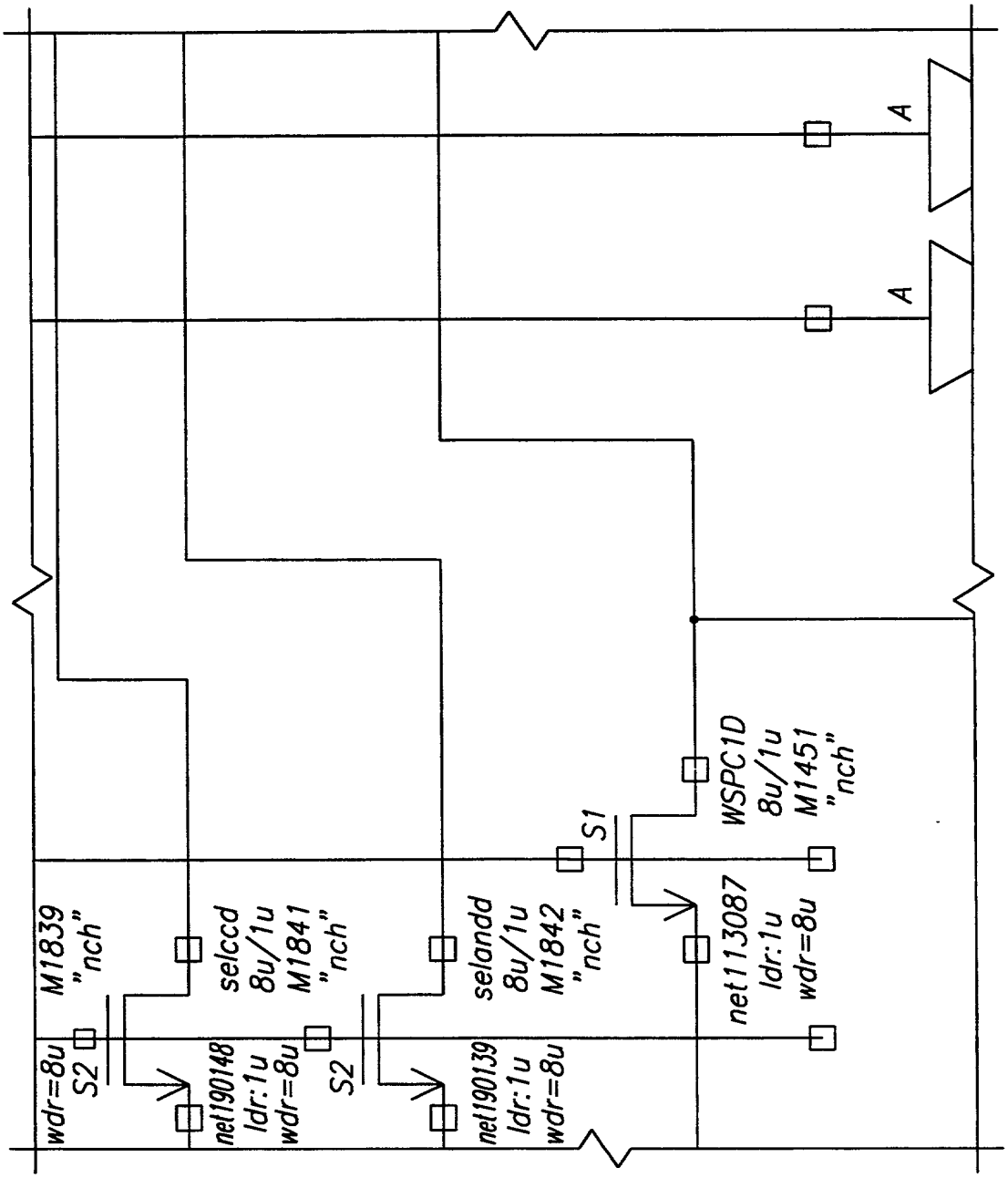
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ФИГ. 1

Подписано и скреплено

EPTSD-2502260



ФИГ. 1

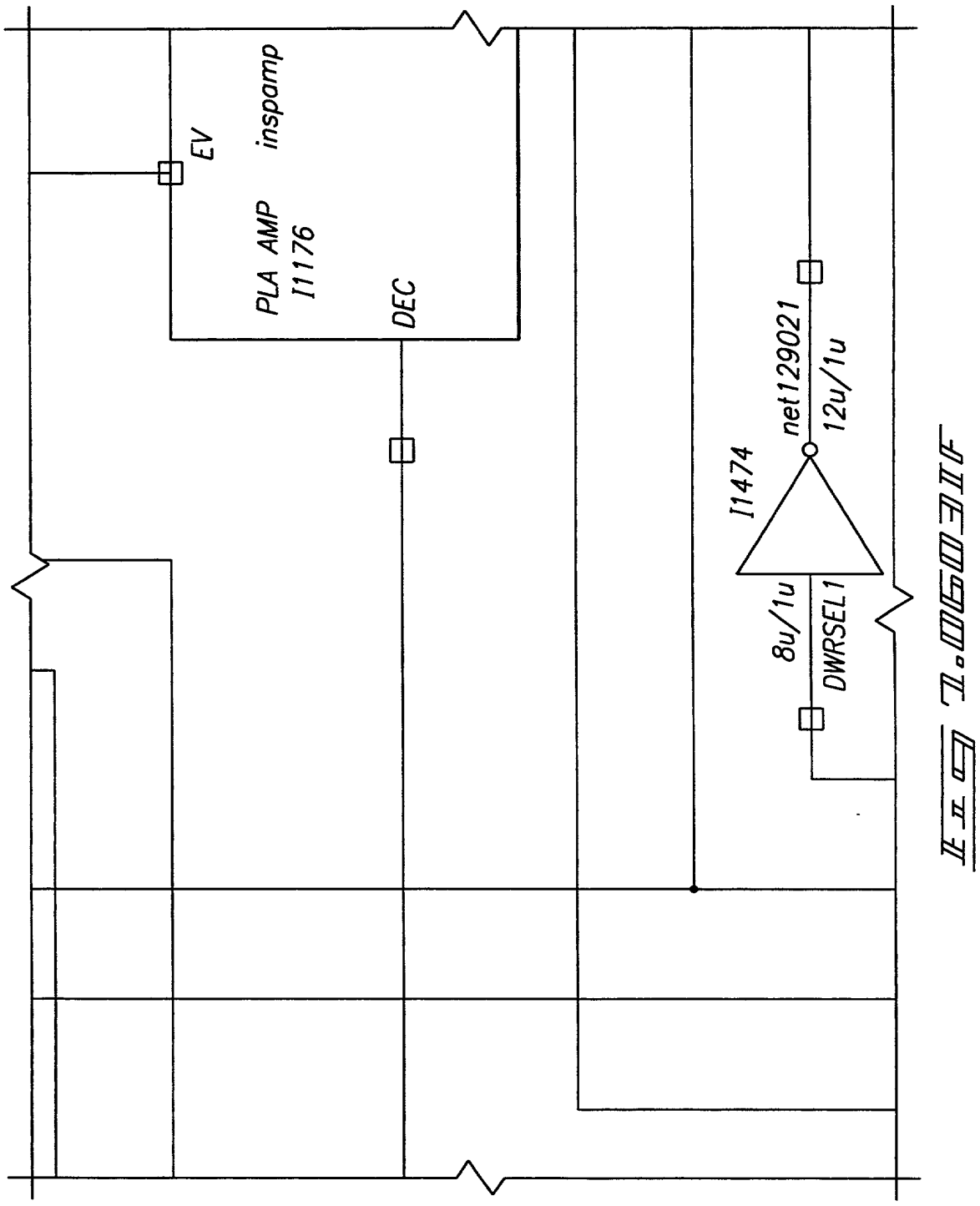
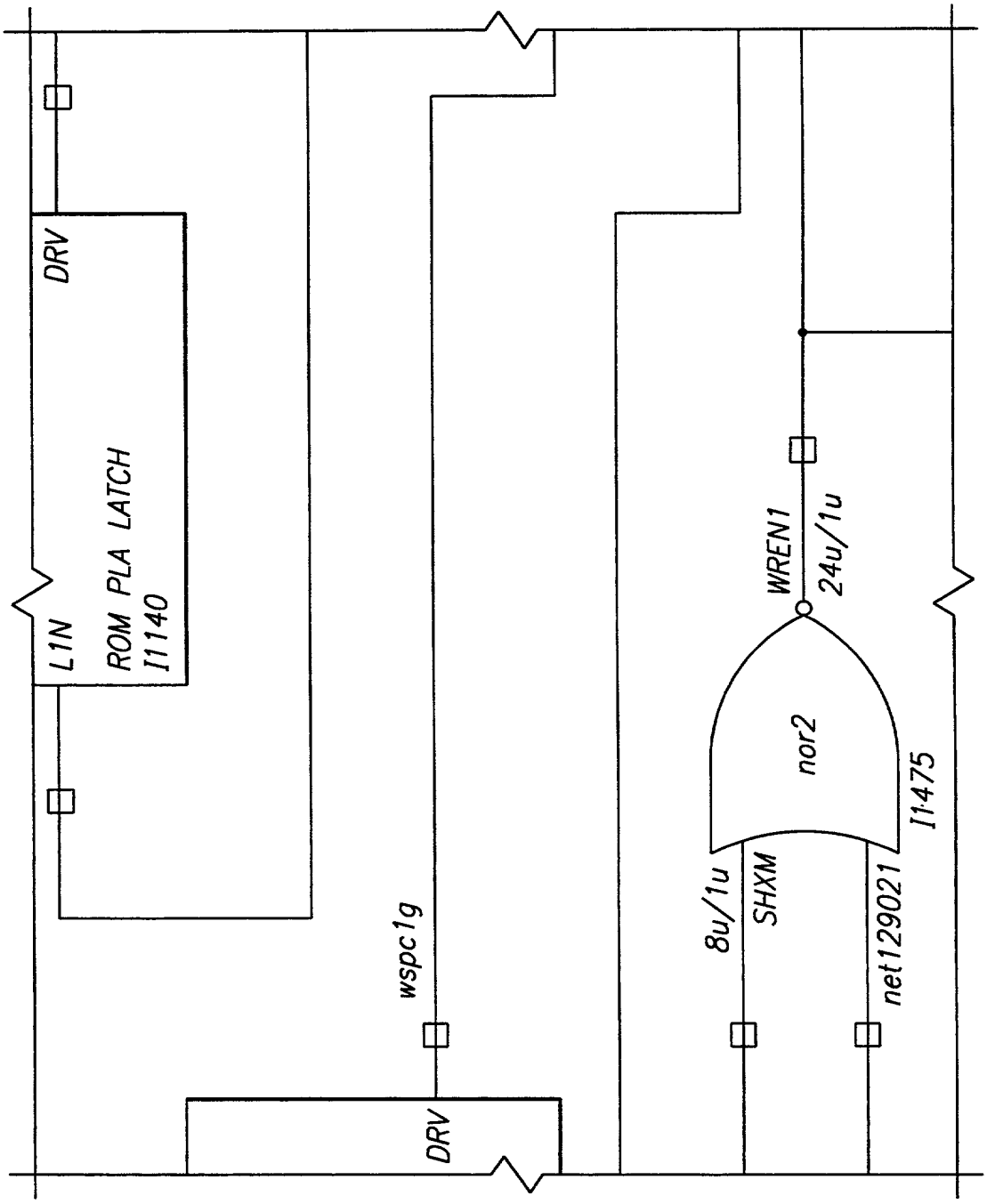
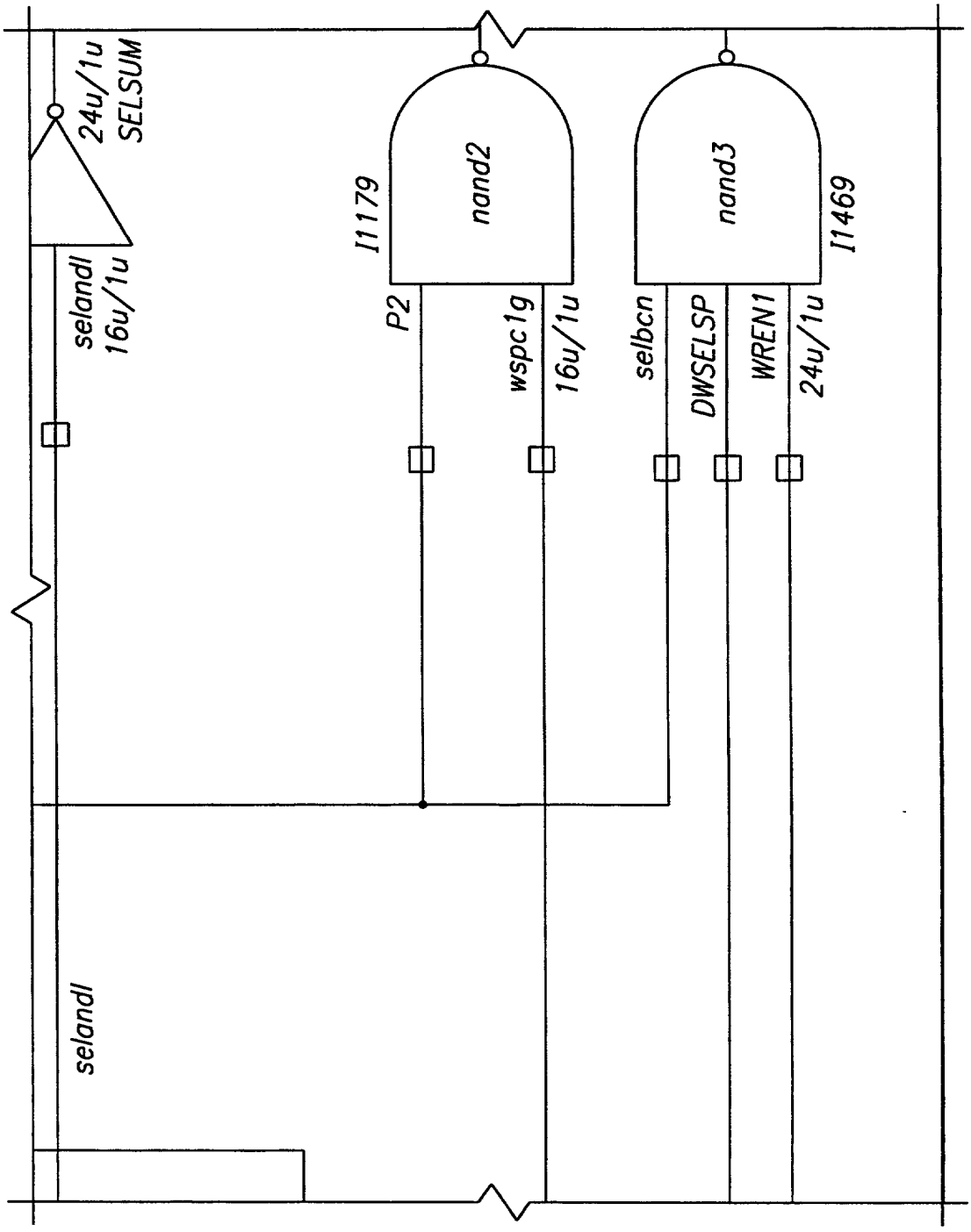


Fig 11.0500.11

Letter-Sequence

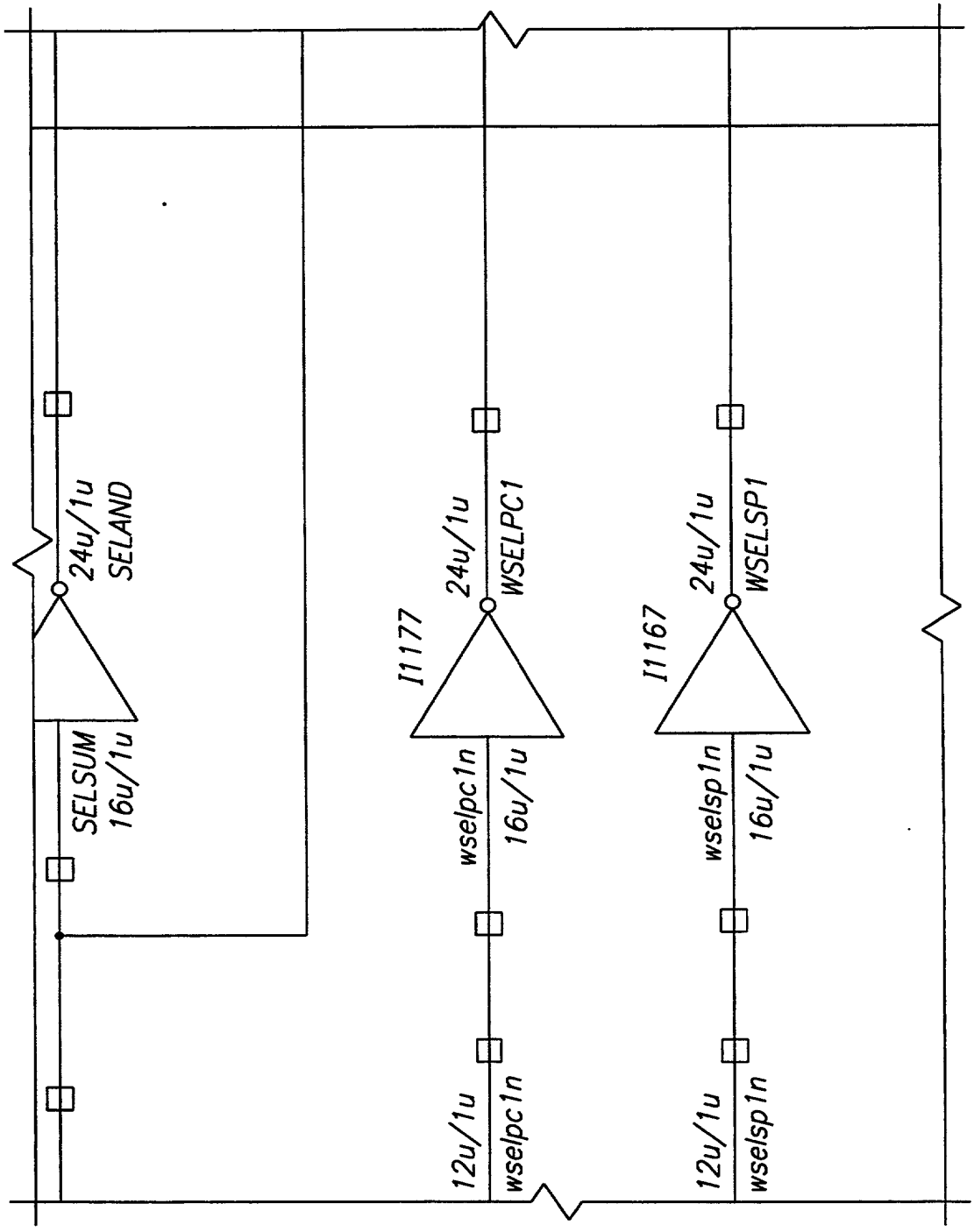

DRV
L1N
ROM PLA LATCH
I1140
wspc1g
DRV
WREN1
24u/1u
nor2
I1475
8u/1u
SHXM
net129021

Фиг. 1.0500



ФИГ. 5

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ФИГ. 1

EP1159750B1

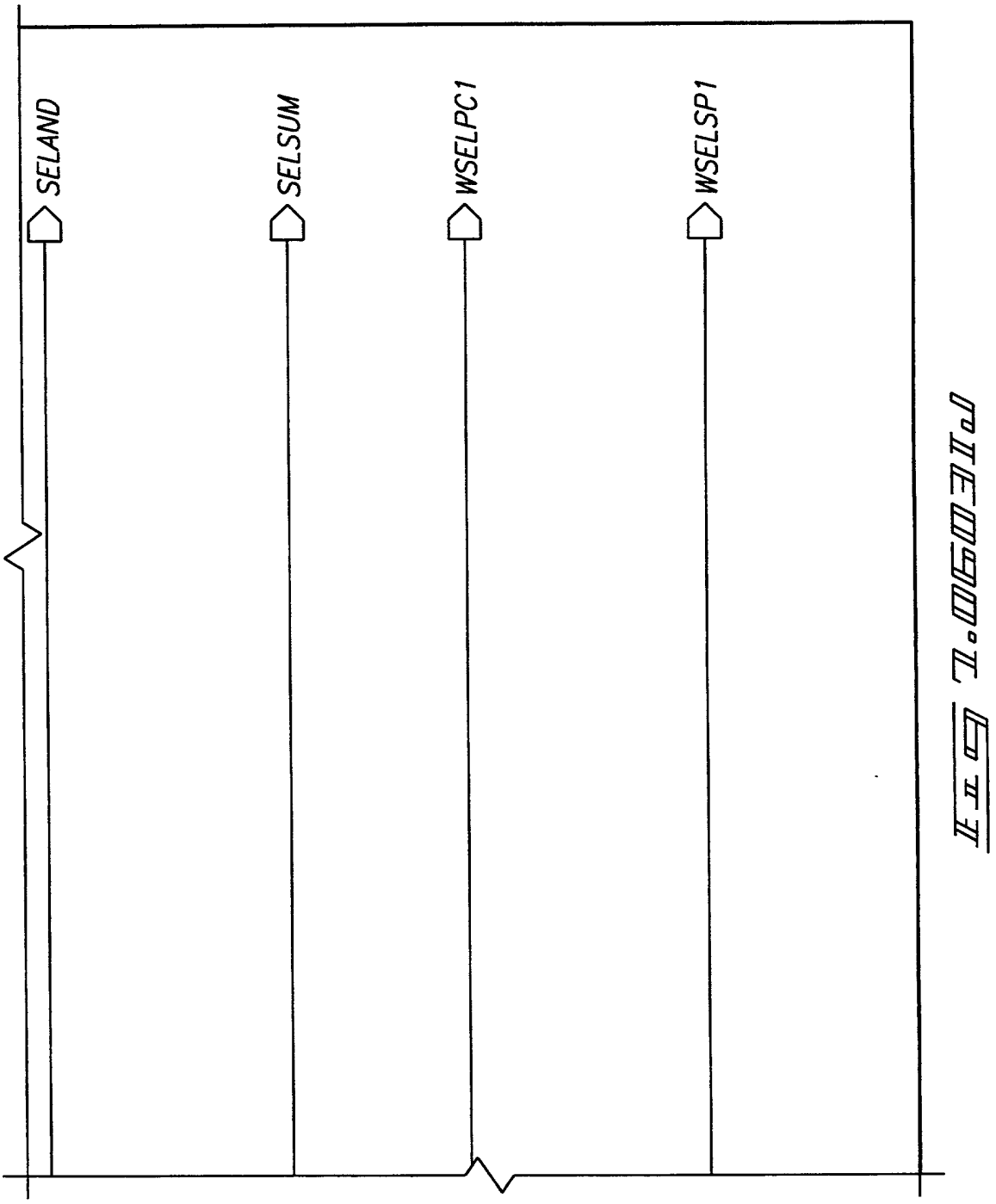
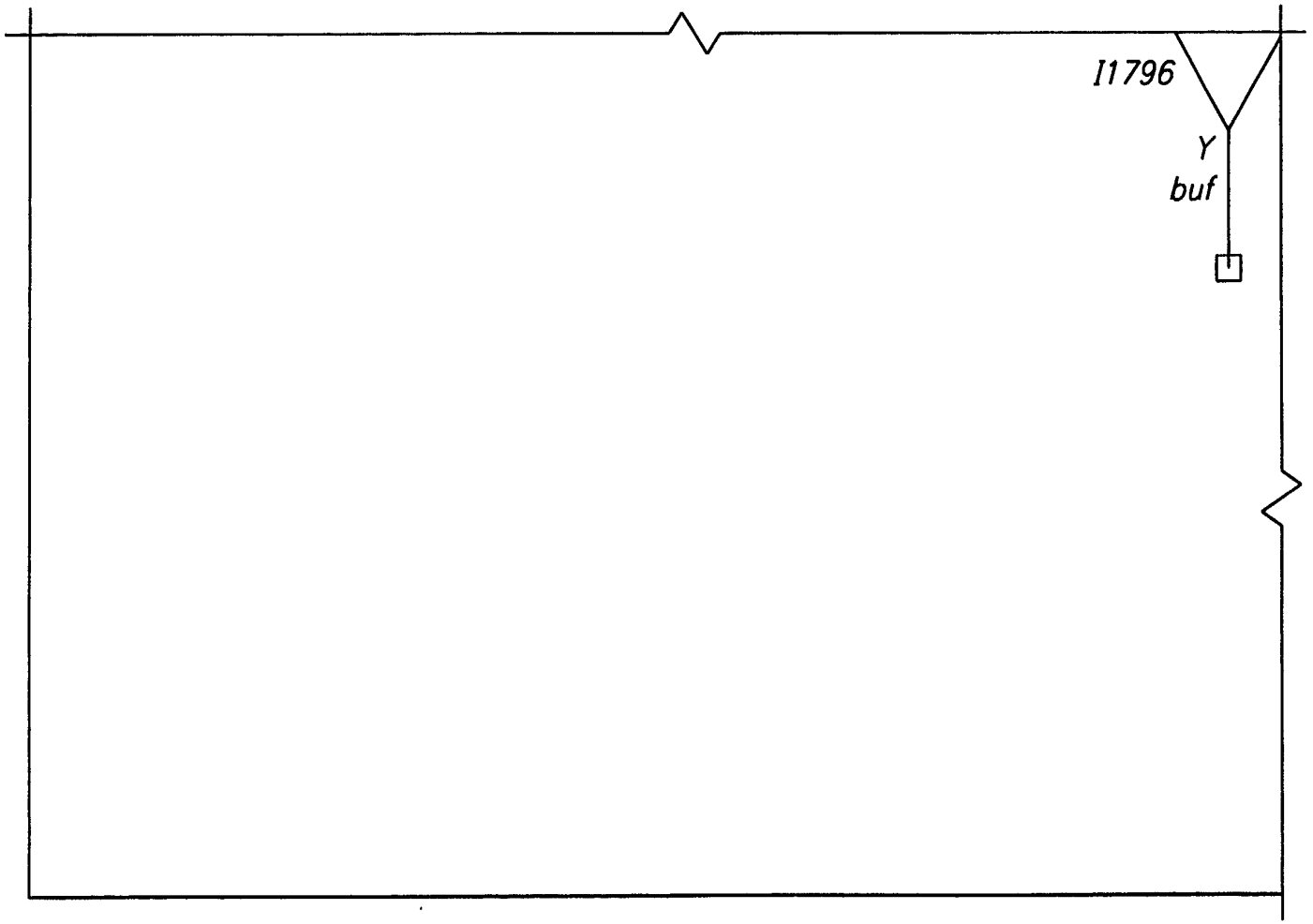


FIG 7.0.0.0

ТОТ190"Е90228бО



Лист 1.06031С

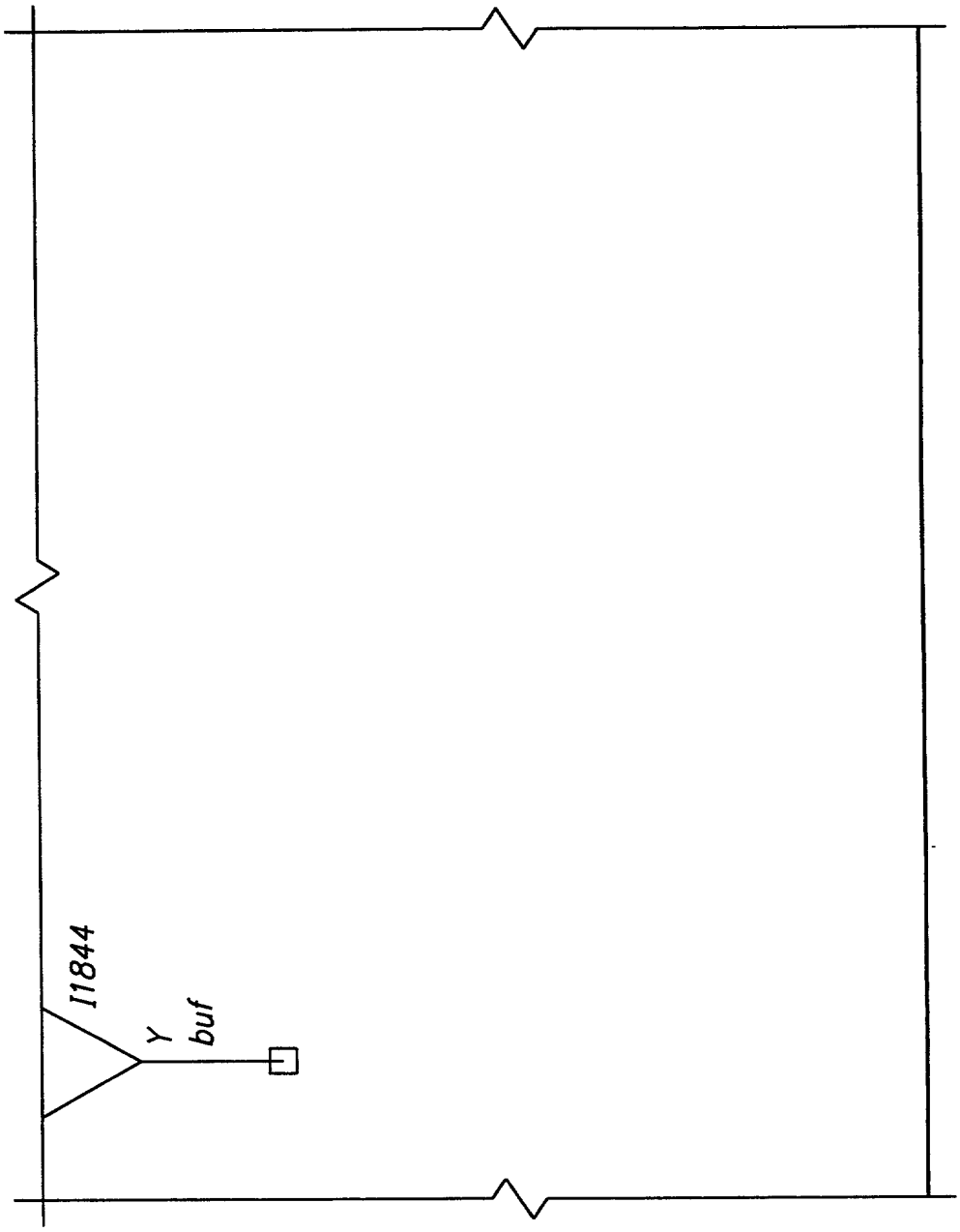


FIG 3

1-0174-0502-2952-0

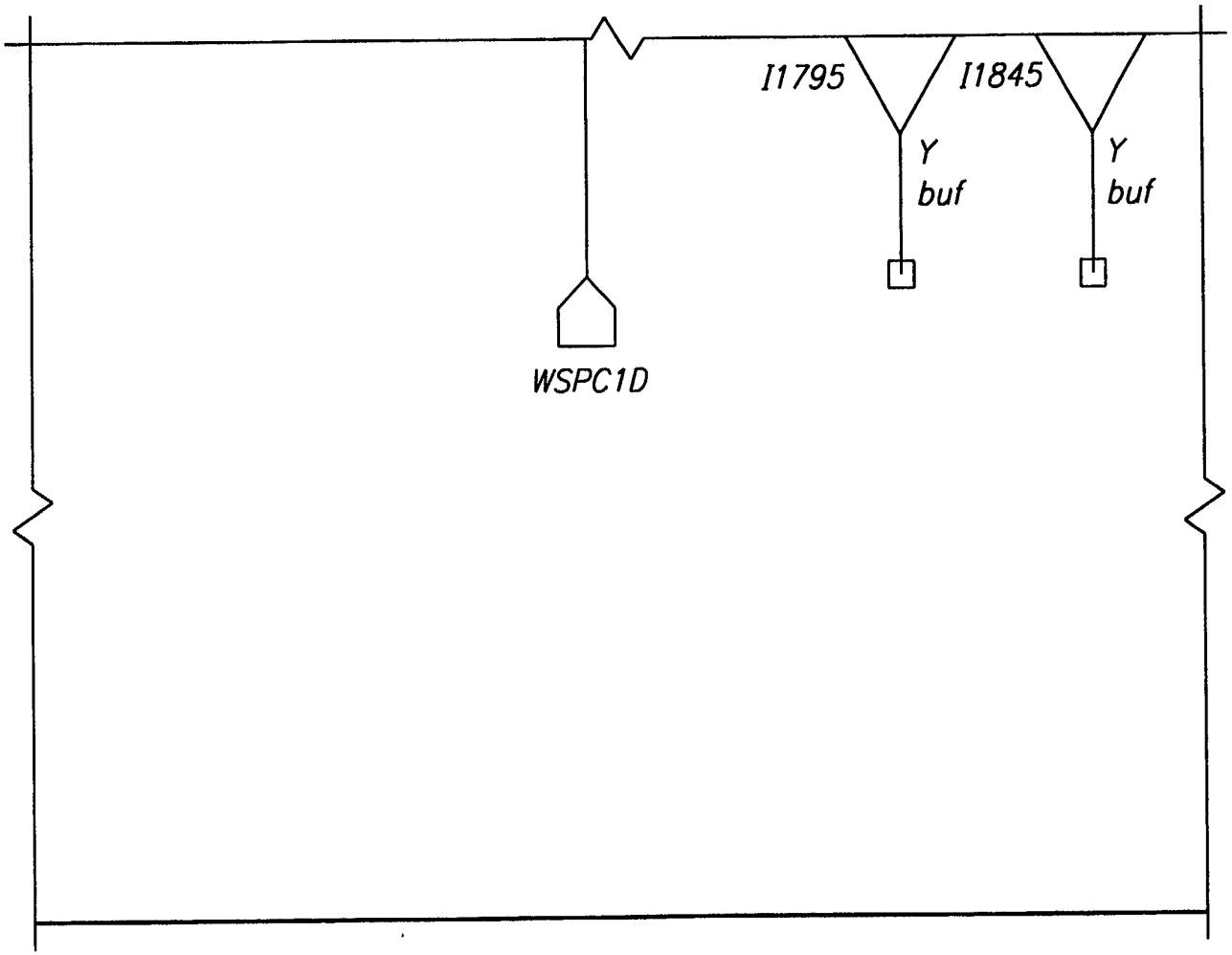


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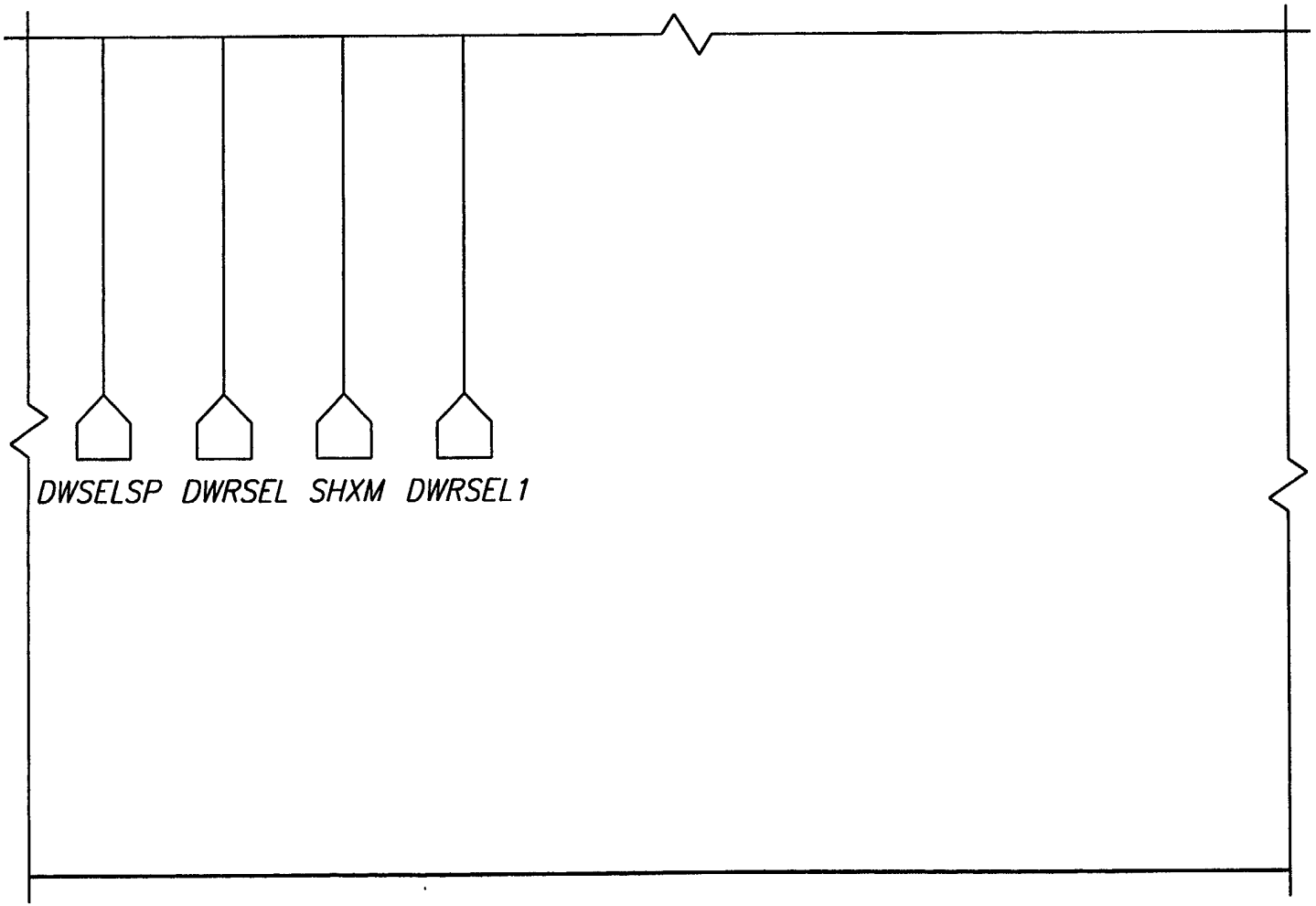
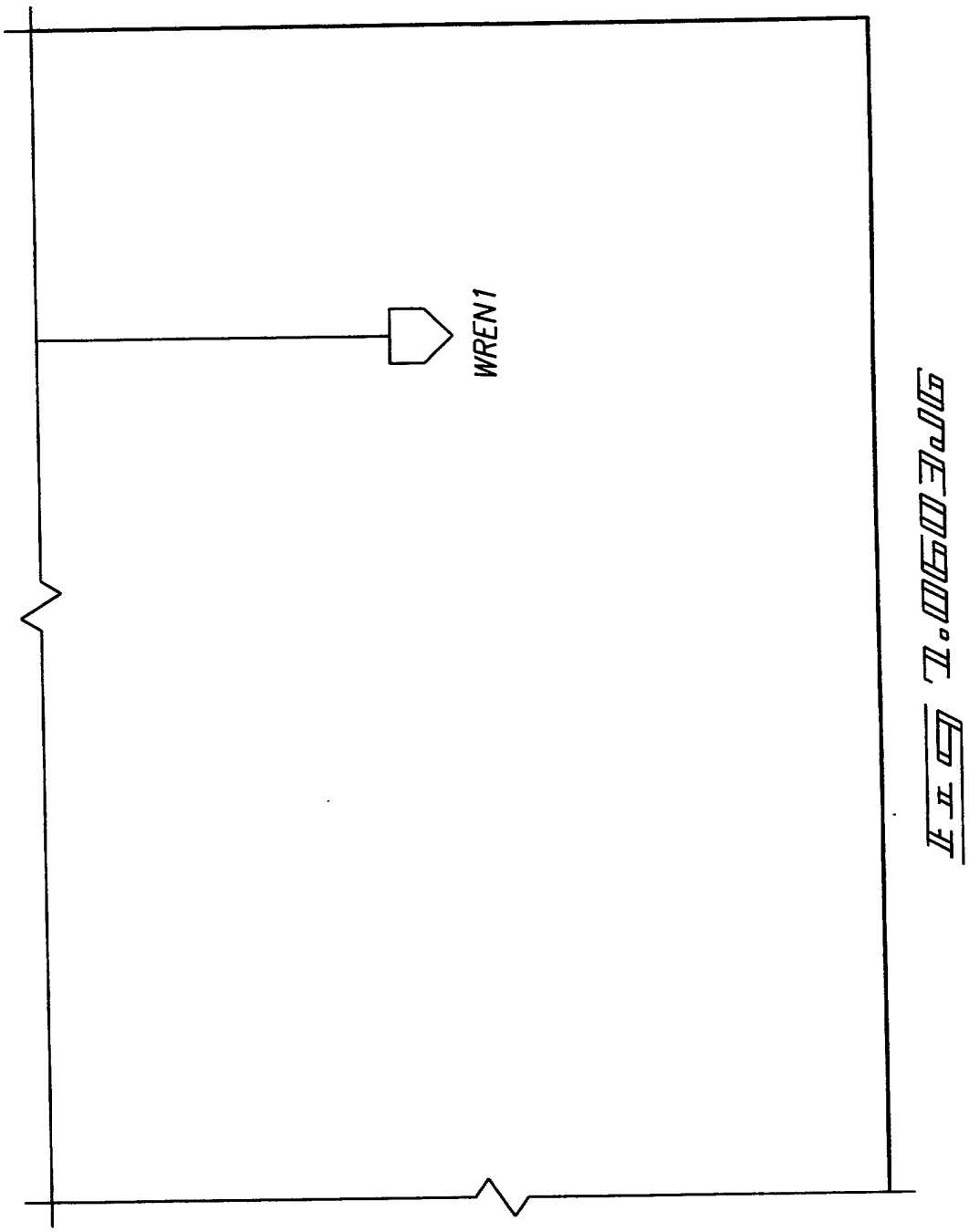
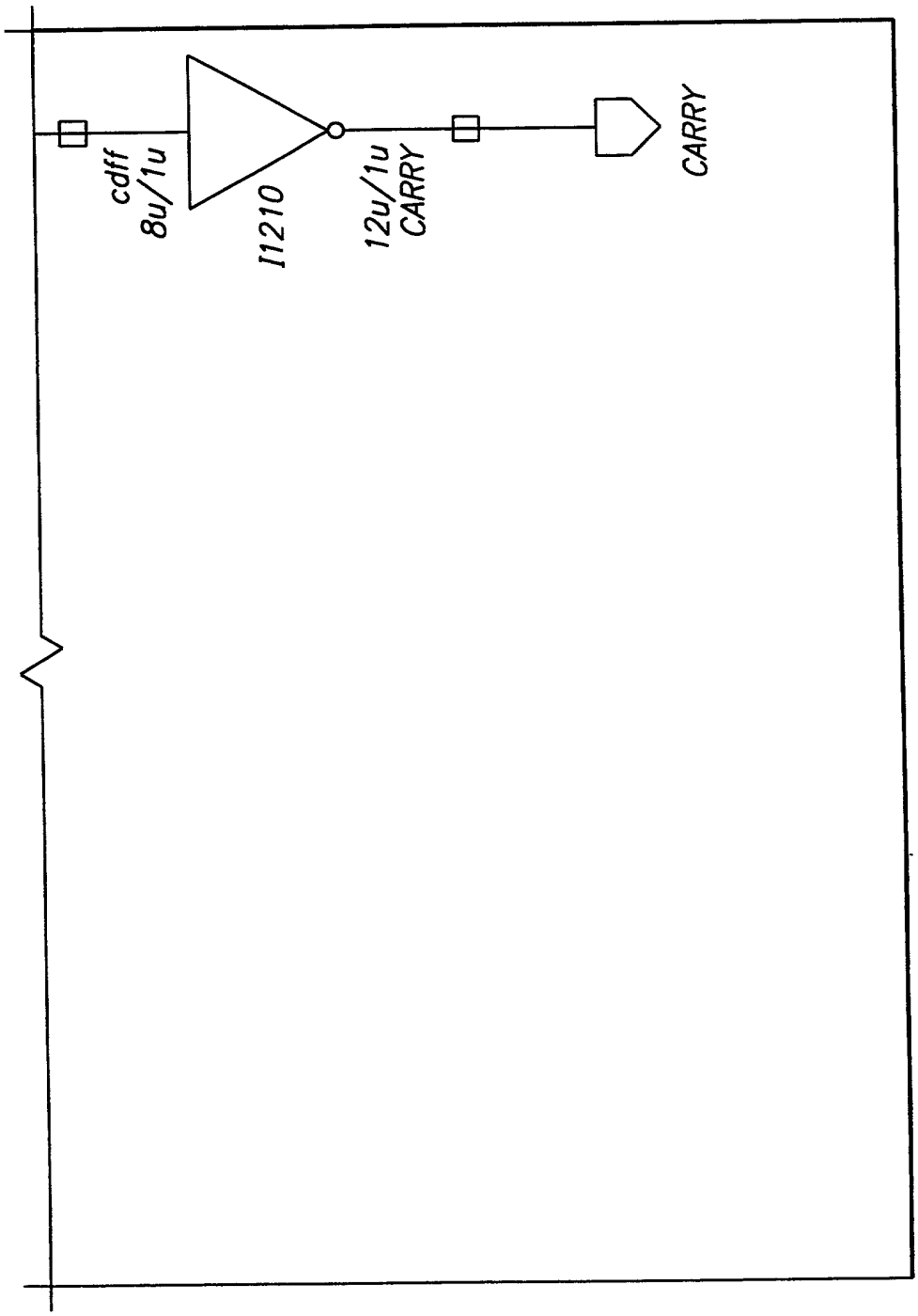


Fig 7.0603.0F

735/3273



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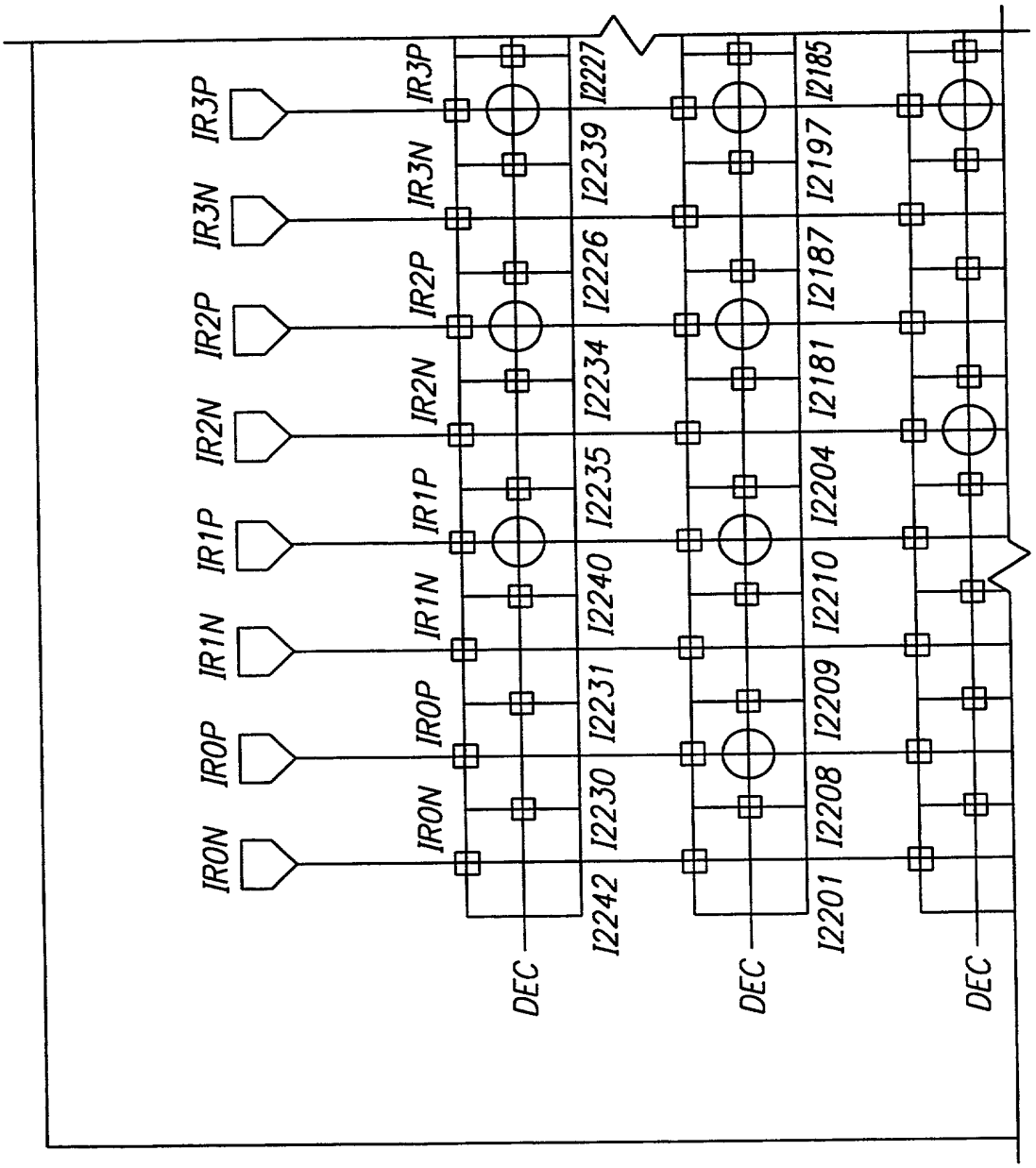


Patent application publication

Фиг. 1

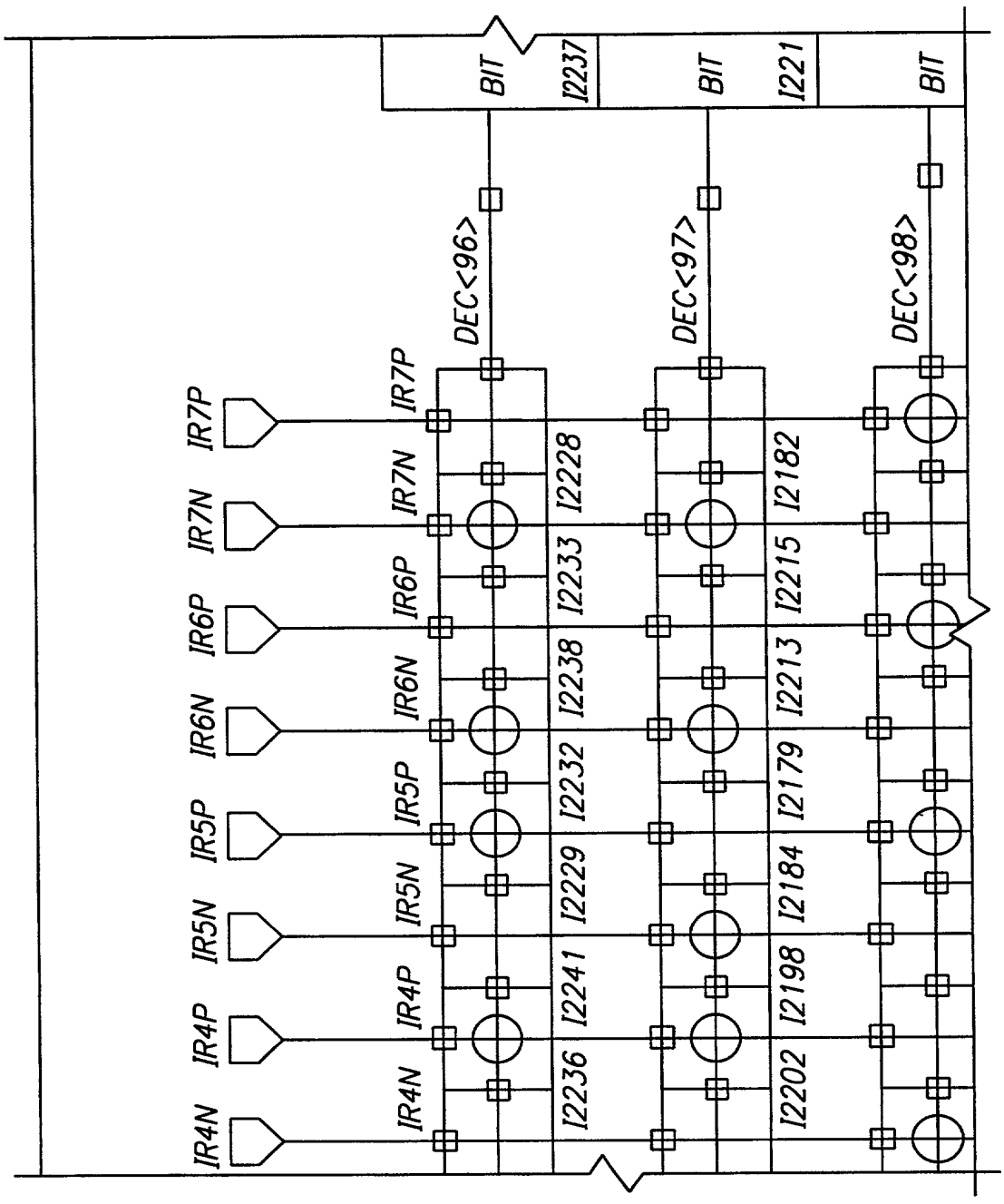
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7.0604CA	7.0604CB	7.0604CC	7.0604CD	7.0604CE	7.0604CF	7.0604CG	7.0604CH	7.0604CI
7.0604DA	7.0604DB	7.0604DC	7.0604DD	7.0604DE	7.0604DF	7.0604DG	7.0604DH	7.0604DI
7.0604EA	7.0604EB	7.0604EC	7.0604ED	7.0604EE	7.0604EF	7.0604EG	7.0604EH	
7.0604FA	7.0604FB	7.0604FC	7.0604FD	7.0604FE	7.0604FF	7.0604FG	7.0604FH	7.0604FI
7.0604GA	7.0604GB	7.0604GC	7.0604GD	7.0604GE	7.0604GF	7.0604GG	7.0604GH	7.0604GI
7.0604HA	7.0604HB	7.0604HC	7.0604HD	7.0604HE	7.0604HF	7.0604HG		
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Фиг. 7.0604



Фиг. 11

20151201-EP3122864A1



Фиг. 5

EP 1 950 259 A2 2008-07-30

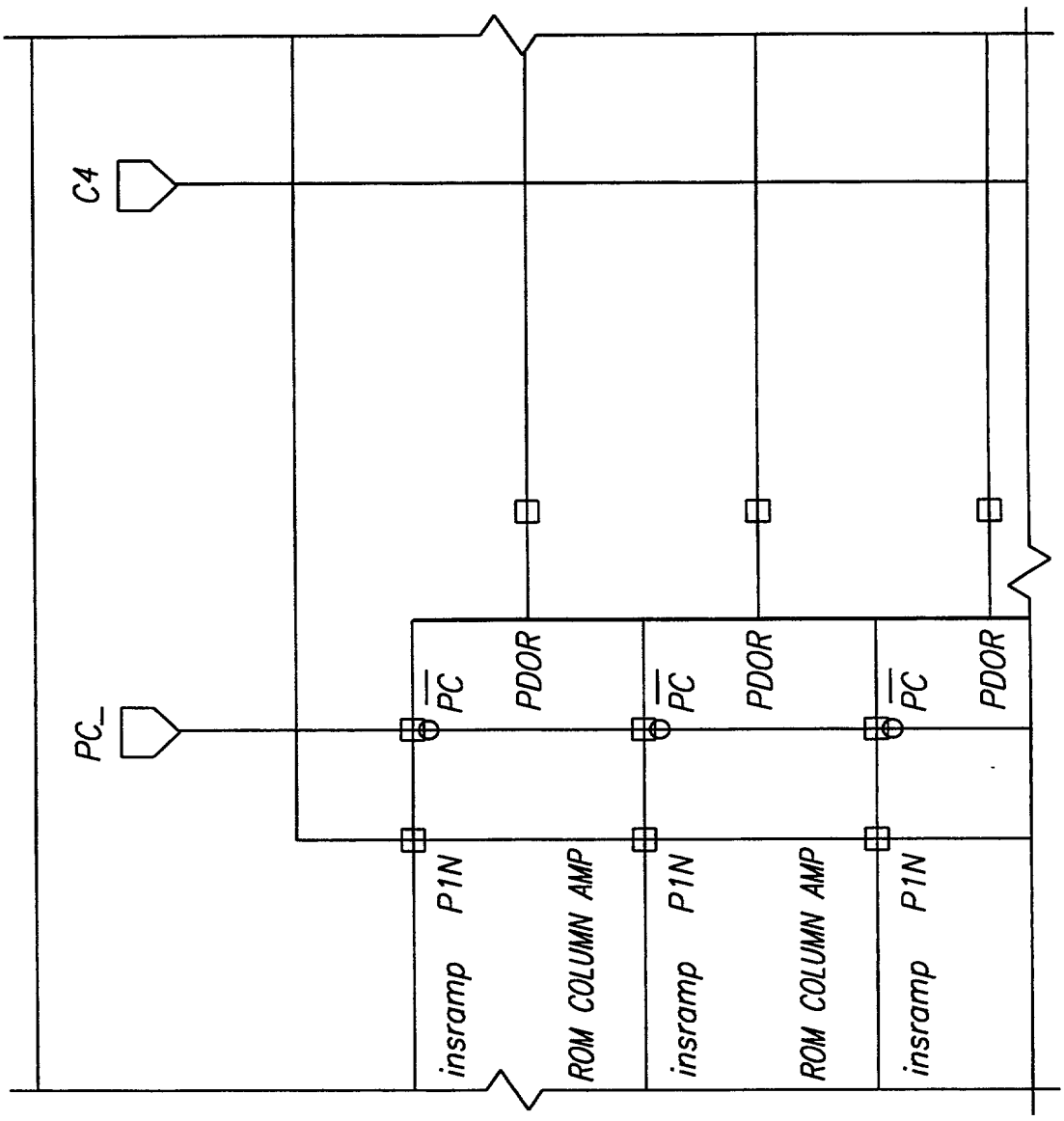
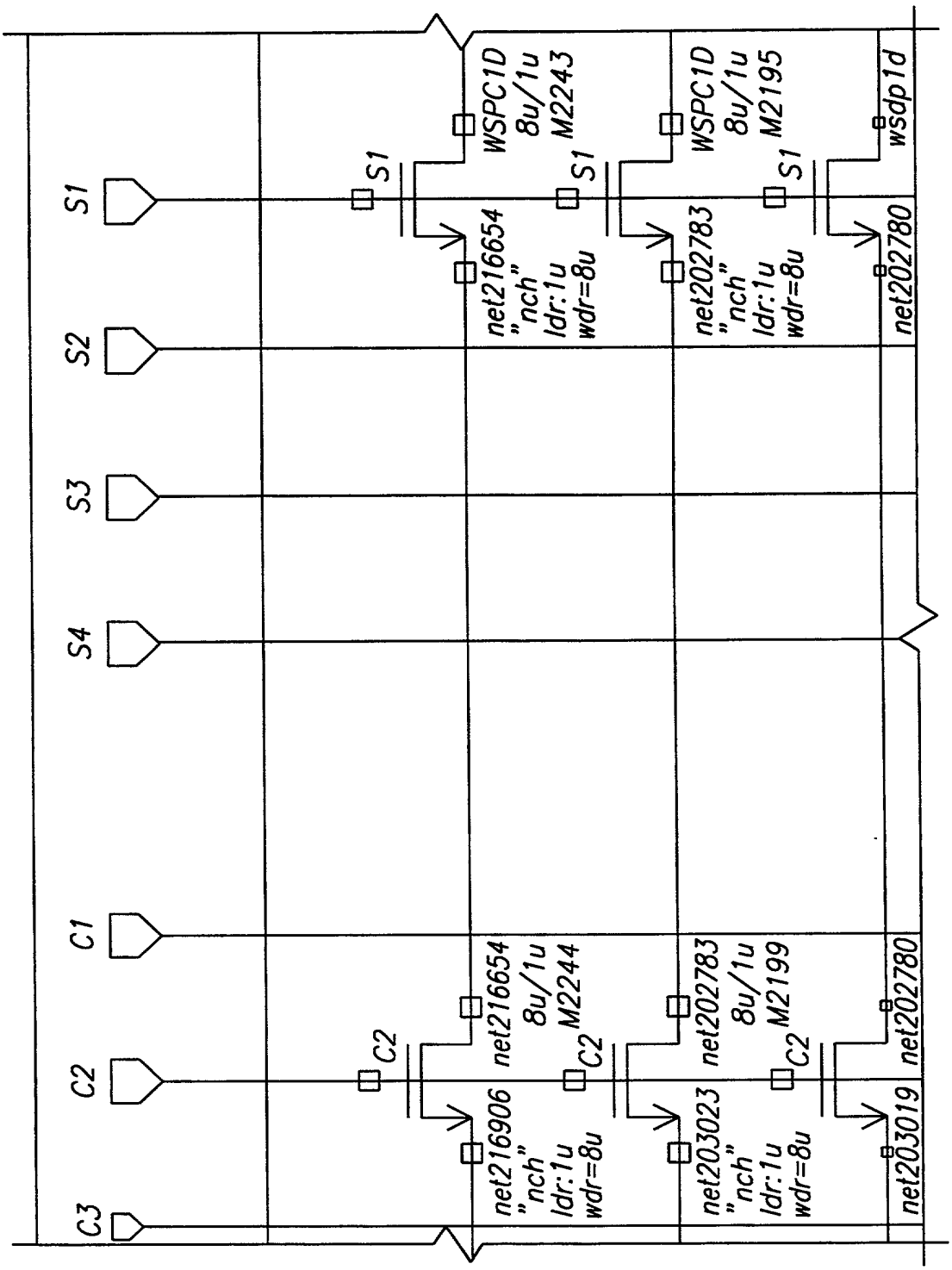

C4
PC_
PC
PDOR
PC
PDOR
PC
PDOR
insramp
P1N
ROM COLUMN AMP
insramp
P1N
ROM COLUMN AMP
insramp
P1N

FIG. 1A


S1
S2
S3
S4
C1
C2
C3
WSPC1D
8u/1u
M2243
WSPC1D
8u/1u
M2195
wsdp1d
net216654
"nch"
ldr:1u
wdr=8u
net202783
"nch"
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8u/1u
M2244
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8u/1u
M2199
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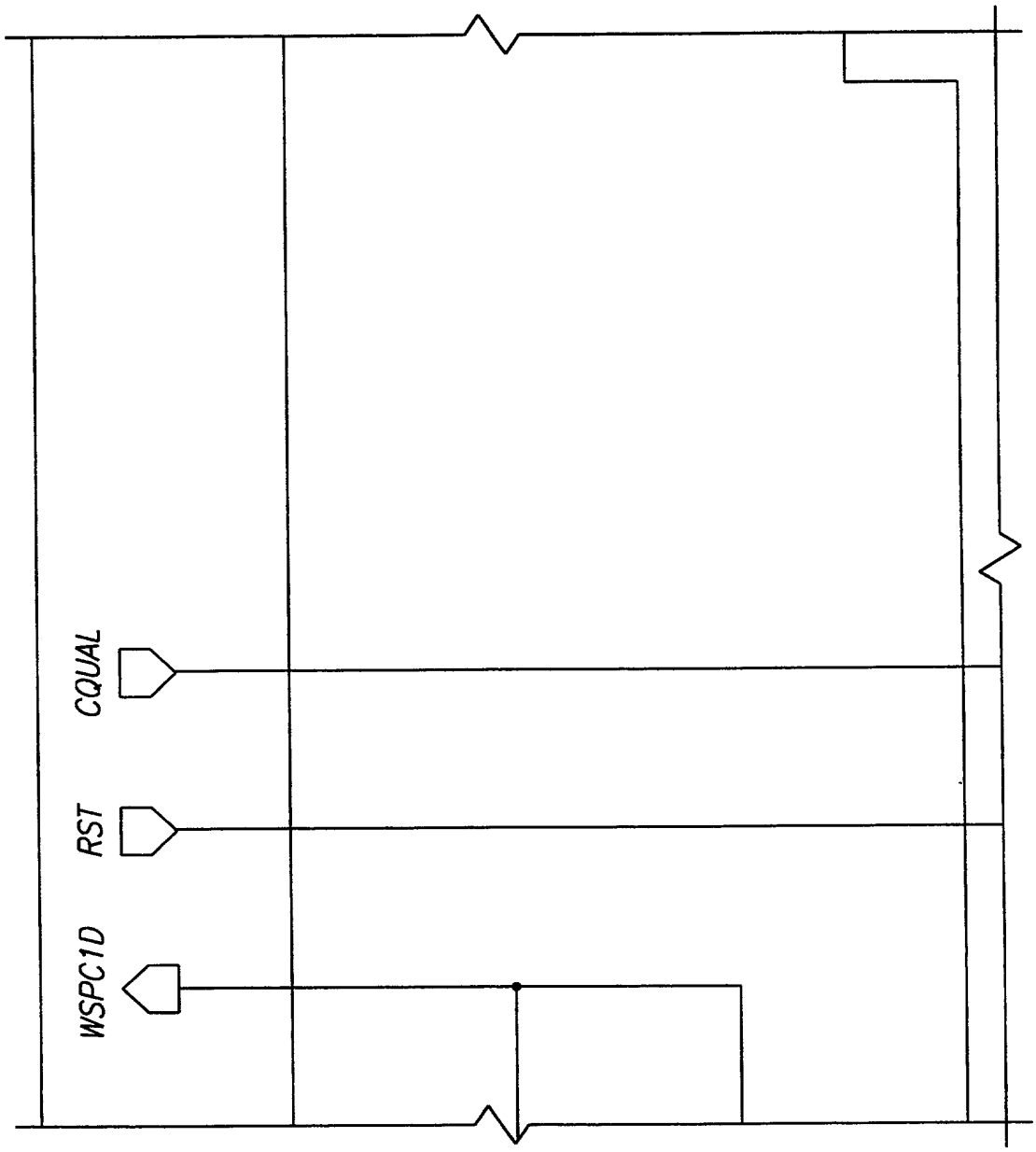


Fig 7.0090.4AE

Intel Corporation

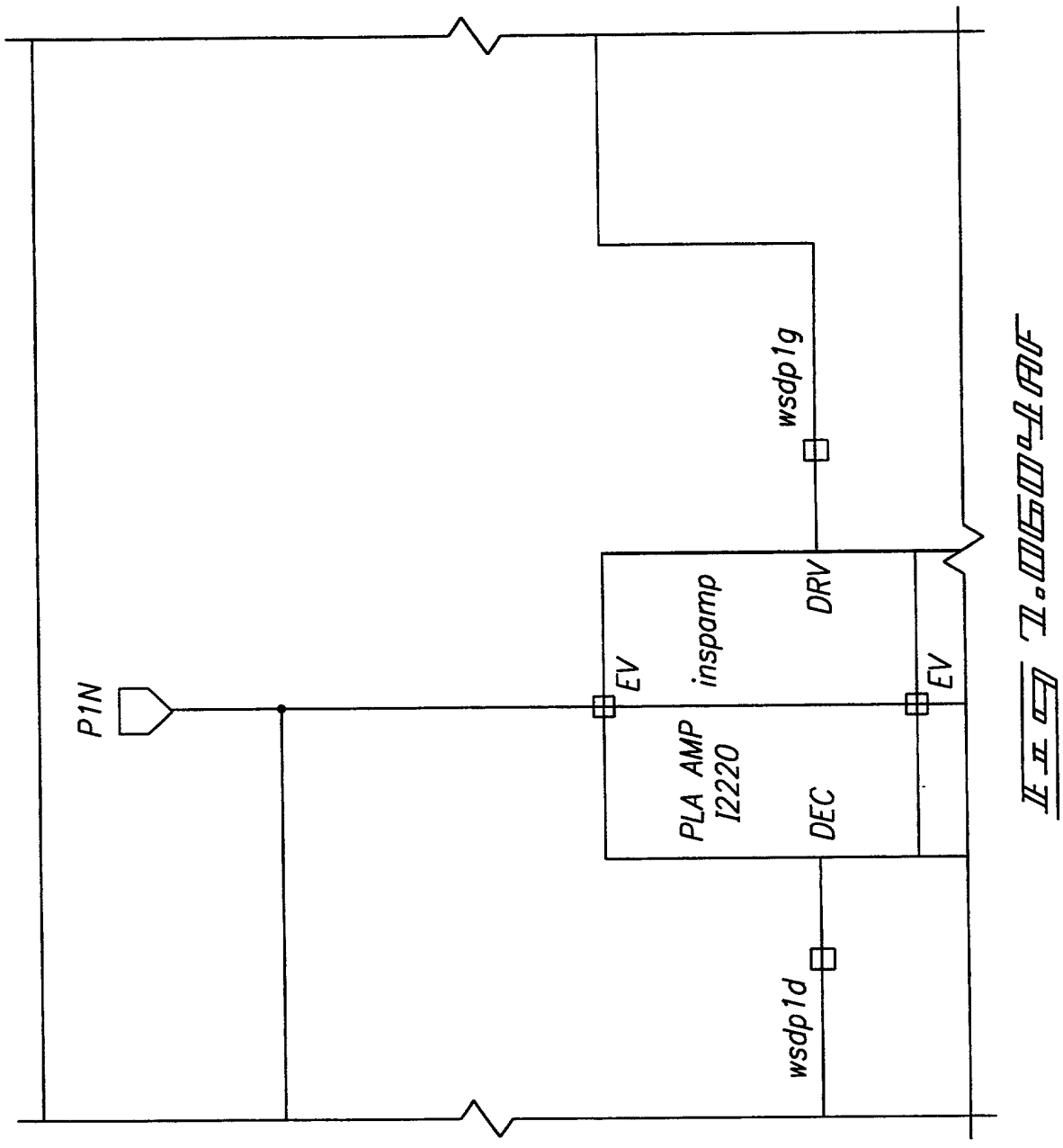
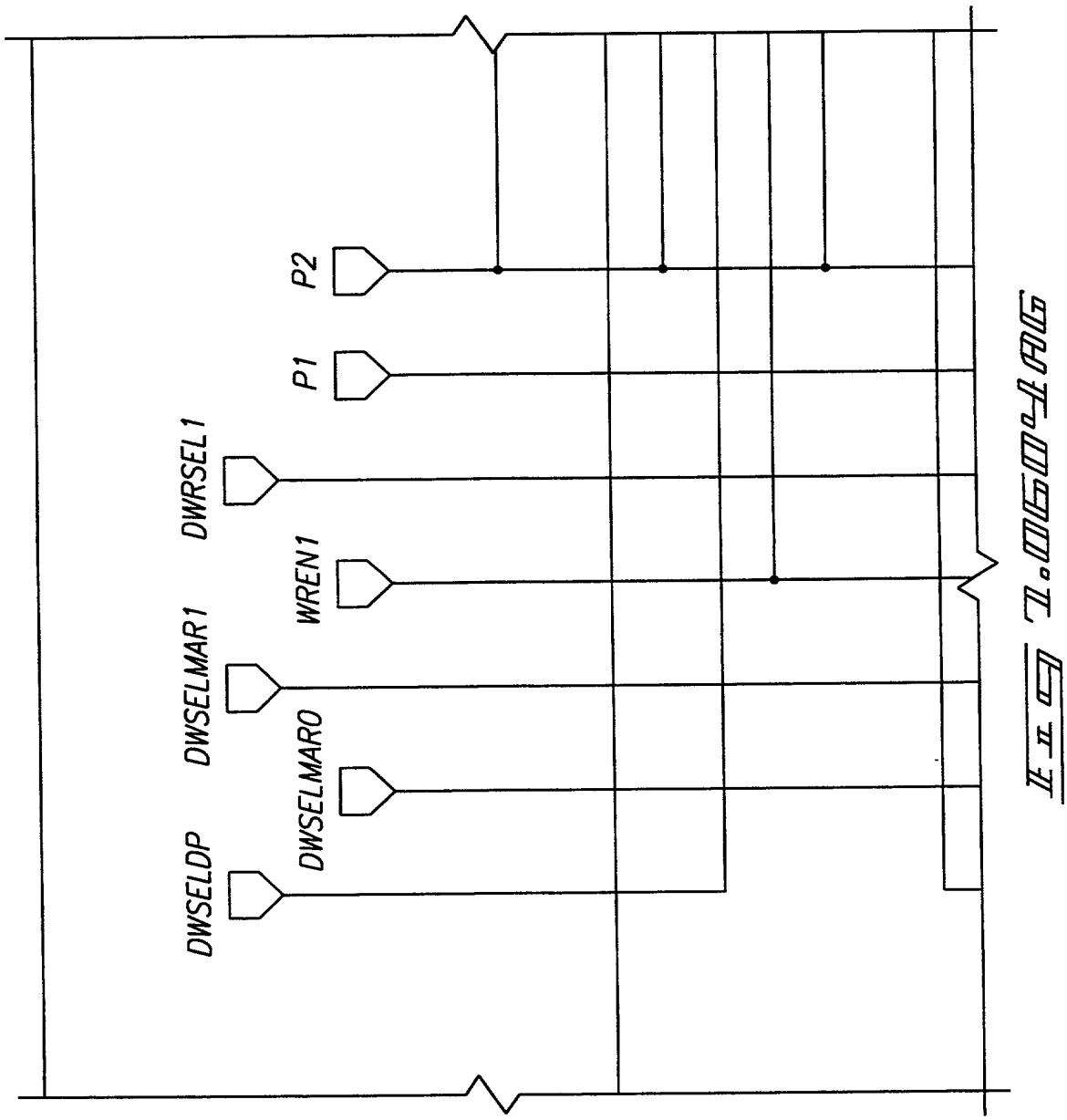
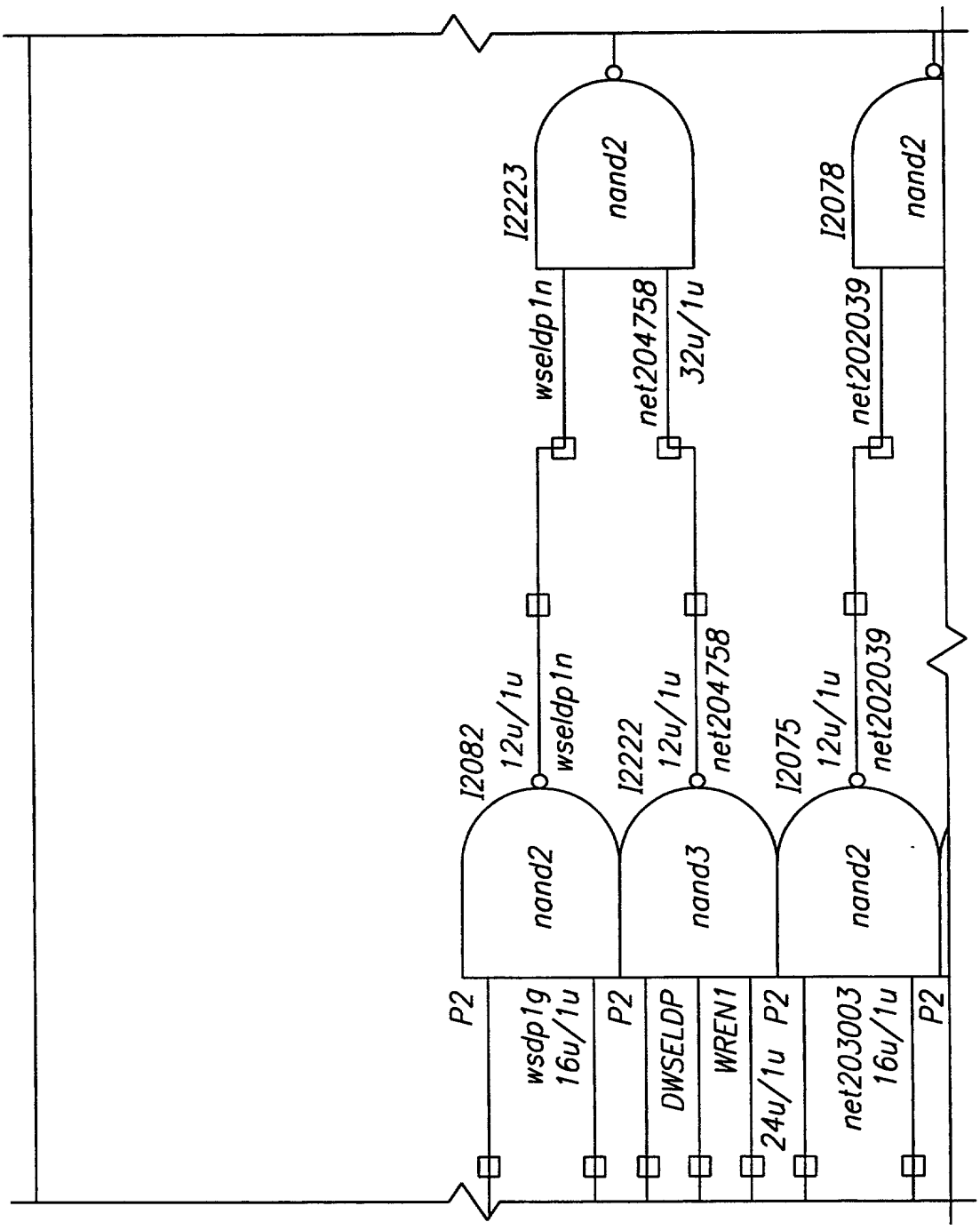


Fig. 1

Replacement Sheet


DWSELDP
DWSELMAR0
DWSELMAR1
WREN1
DWRSEL1
P1
P2
SY4050 L 50 K



Фиг. 1

Patent application

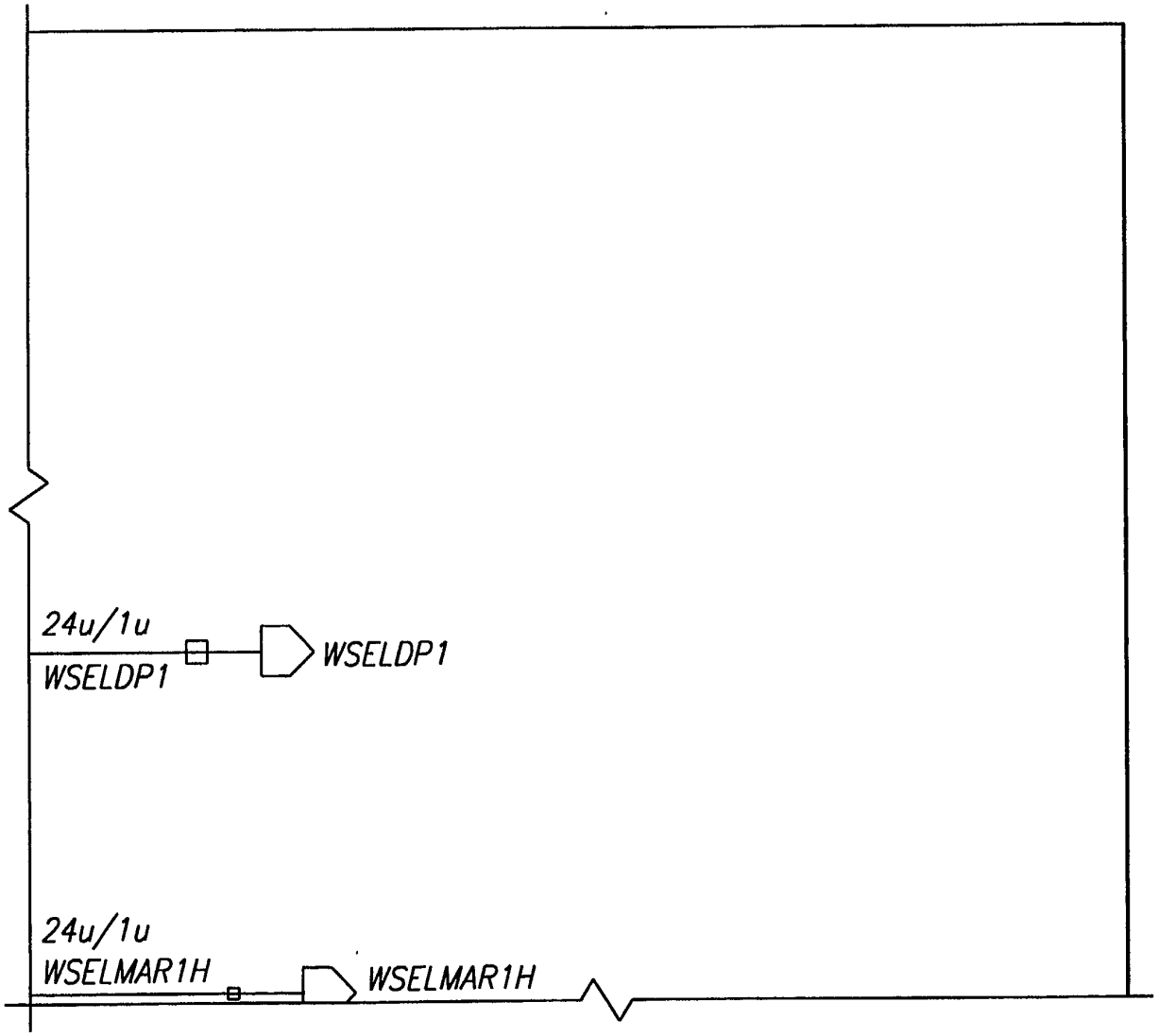
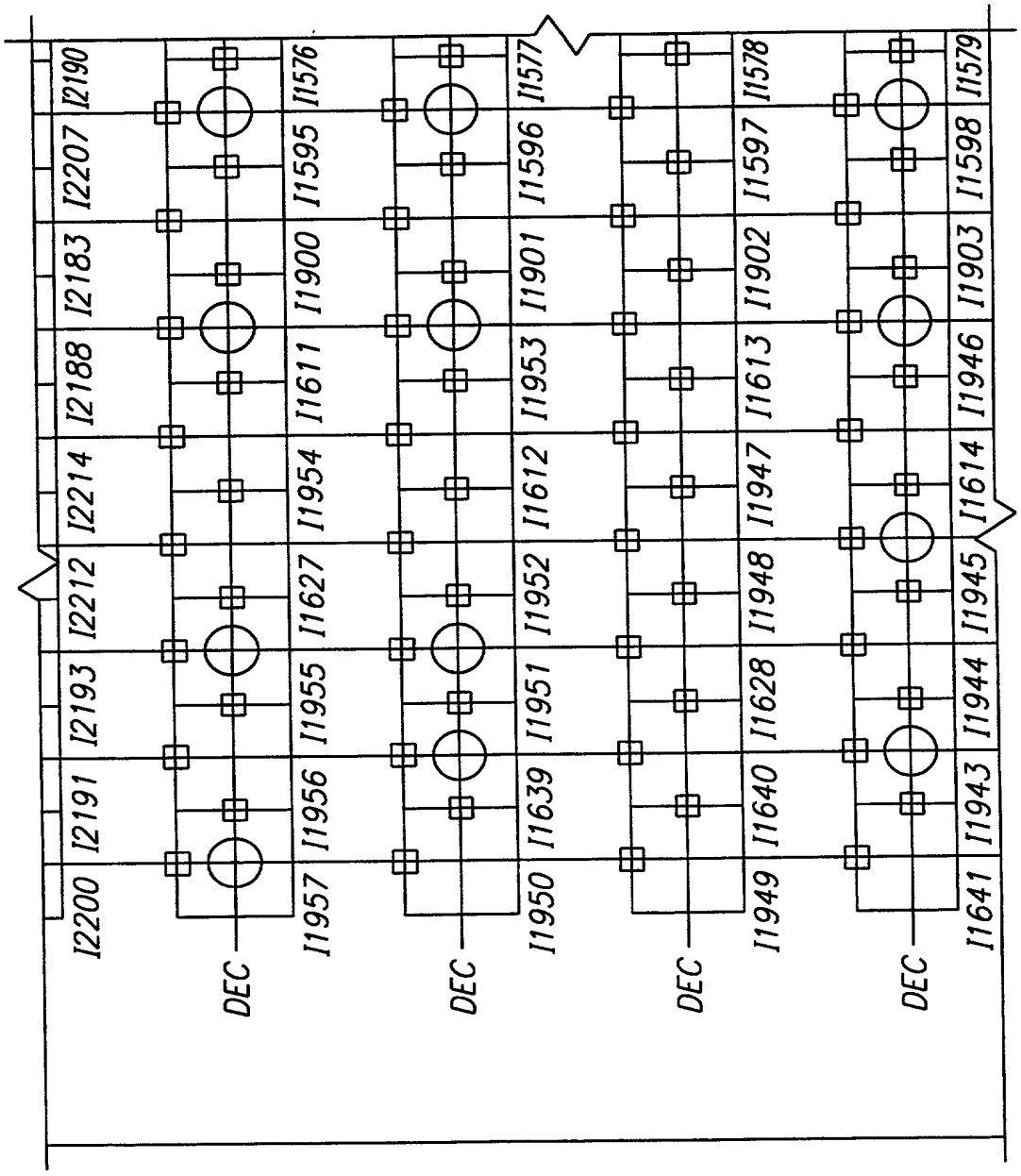
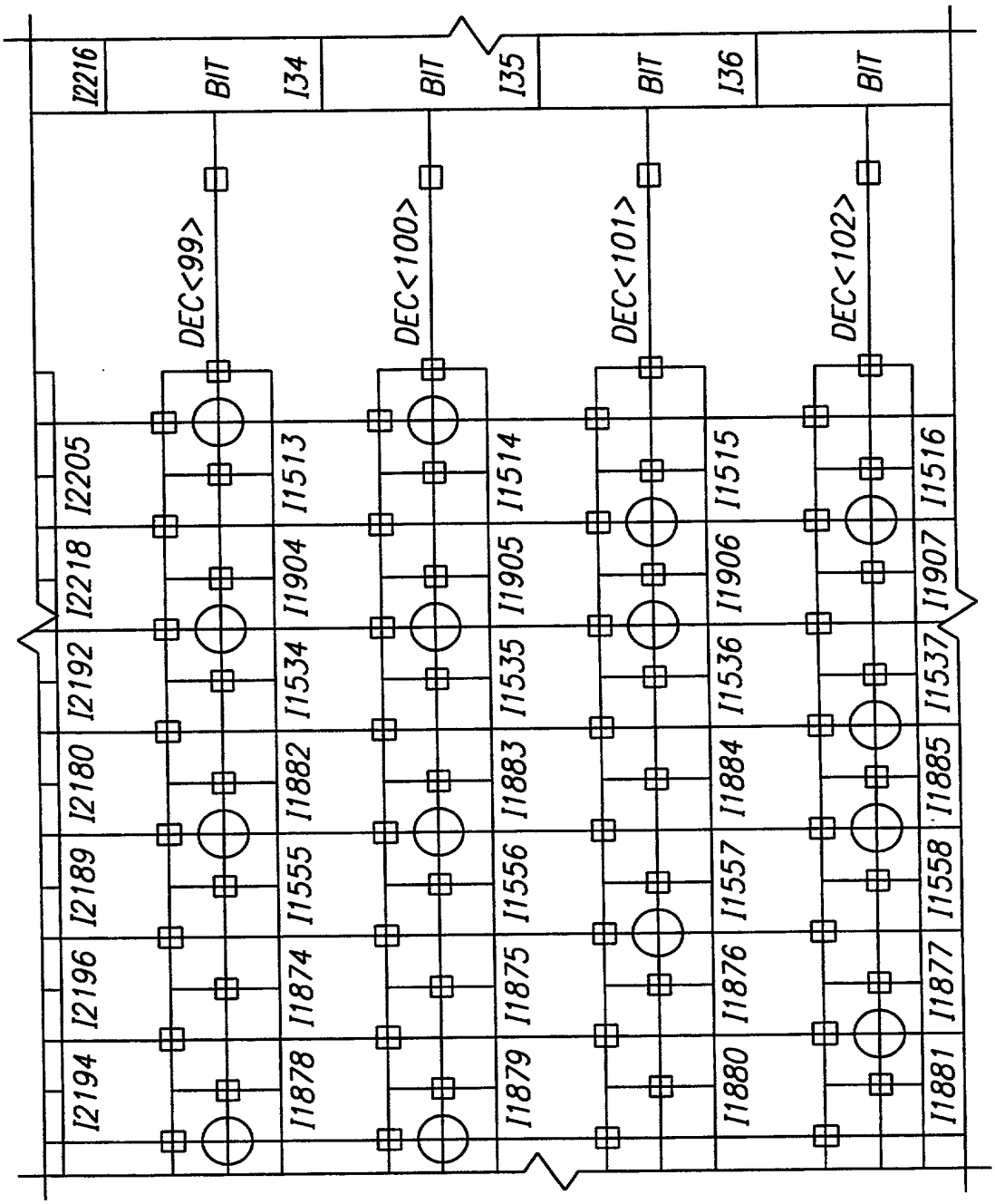


Fig 1.0604AI


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I2193
I2212
I2214
I2188
I2183
I2207
I2190
I1957
I1956
I1955
I1627
I1954
I1611
I1900
I1595
I1576
I1950
I1639
I1951
I1952
I1612
I1953
I1901
I1596
I1577
I1949
I1640
I1628
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I1947
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I1902
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I1945
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DEC
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1-0-1-1-1



ФИГ. 1

1017590 20020590

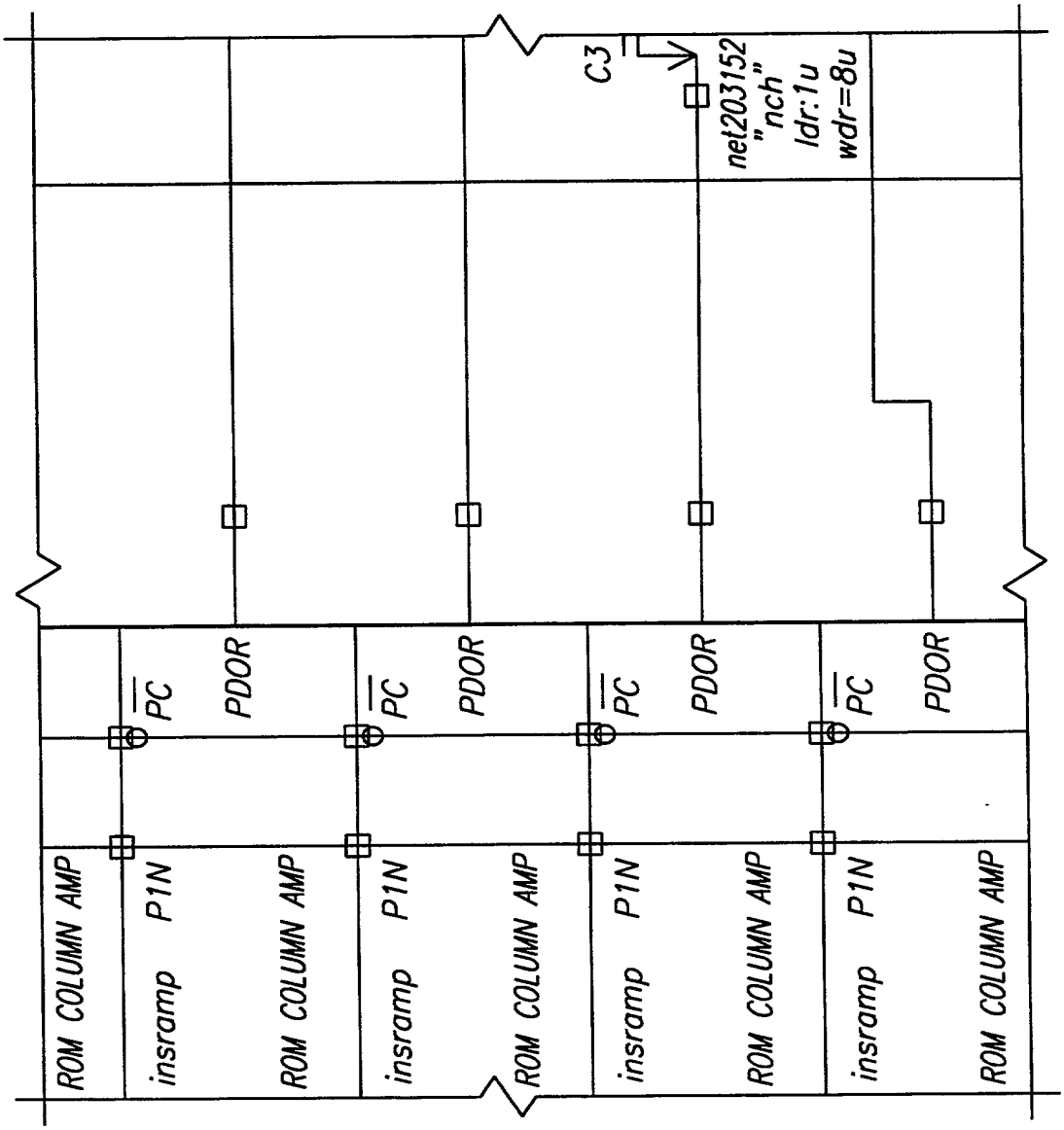


Fig. 7

US 6,501,294 B2

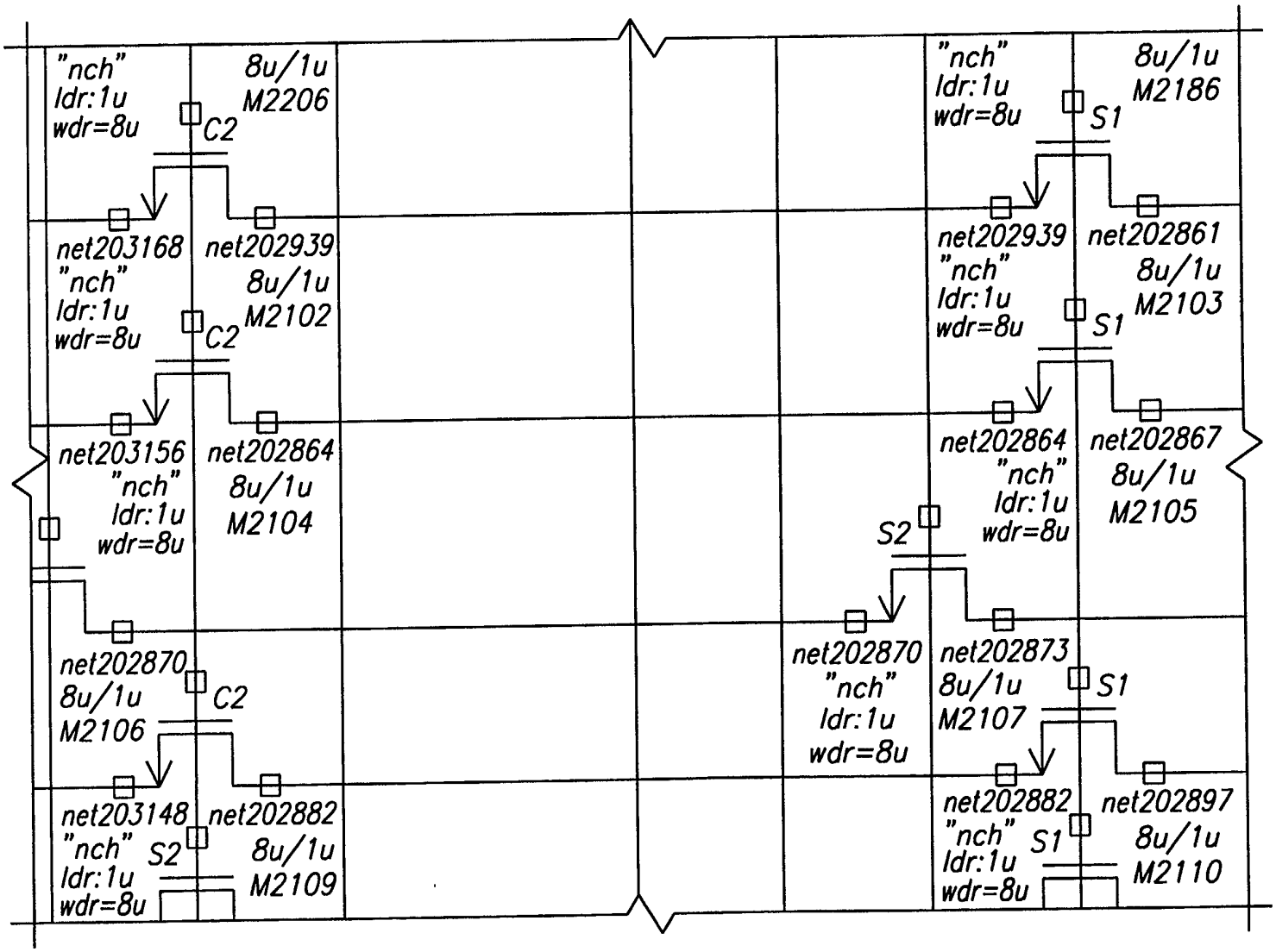
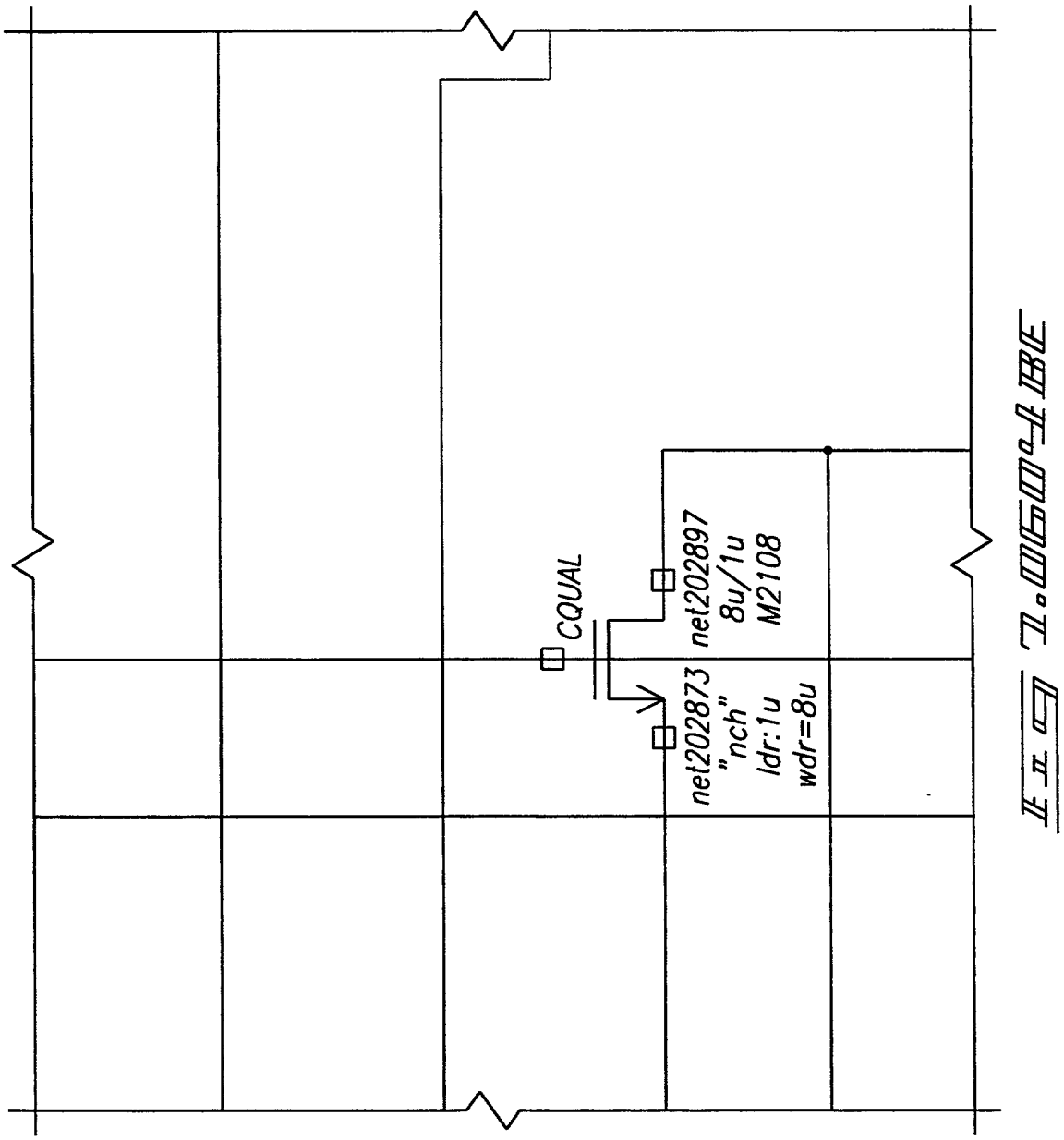
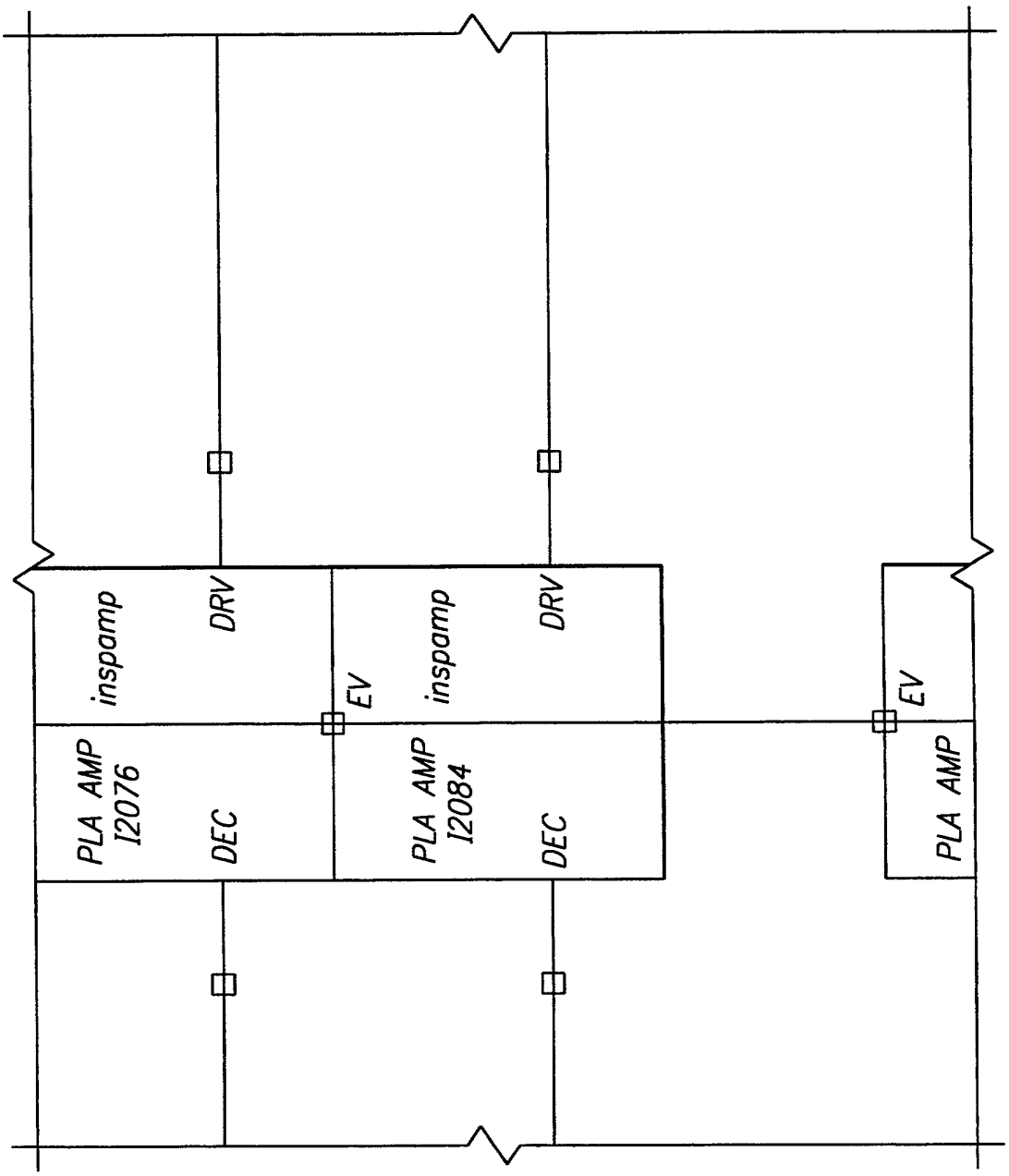

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C2
net203168
net202939
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ldr:1u
wdr=8u
8u/1u
M2102
C2
net203156
"nch"
ldr:1u
wdr=8u
net202864
8u/1u
M2104
net202870
8u/1u
M2106
C2
net203148
"nch"
ldr:1u
wdr=8u
S2
net202882
8u/1u
M2109
"nch"
ldr:1u
wdr=8u
S1
8u/1u
M2186
net202939
"nch"
ldr:1u
wdr=8u
S1
net202861
8u/1u
M2103
net202864
"nch"
ldr:1u
wdr=8u
S2
net202867
8u/1u
M2105
net202870
"nch"
ldr:1u
wdr=8u
net202873
8u/1u
M2107
S1
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wdr=8u
S1
net202897
8u/1u
M2110

Fig 1.060480



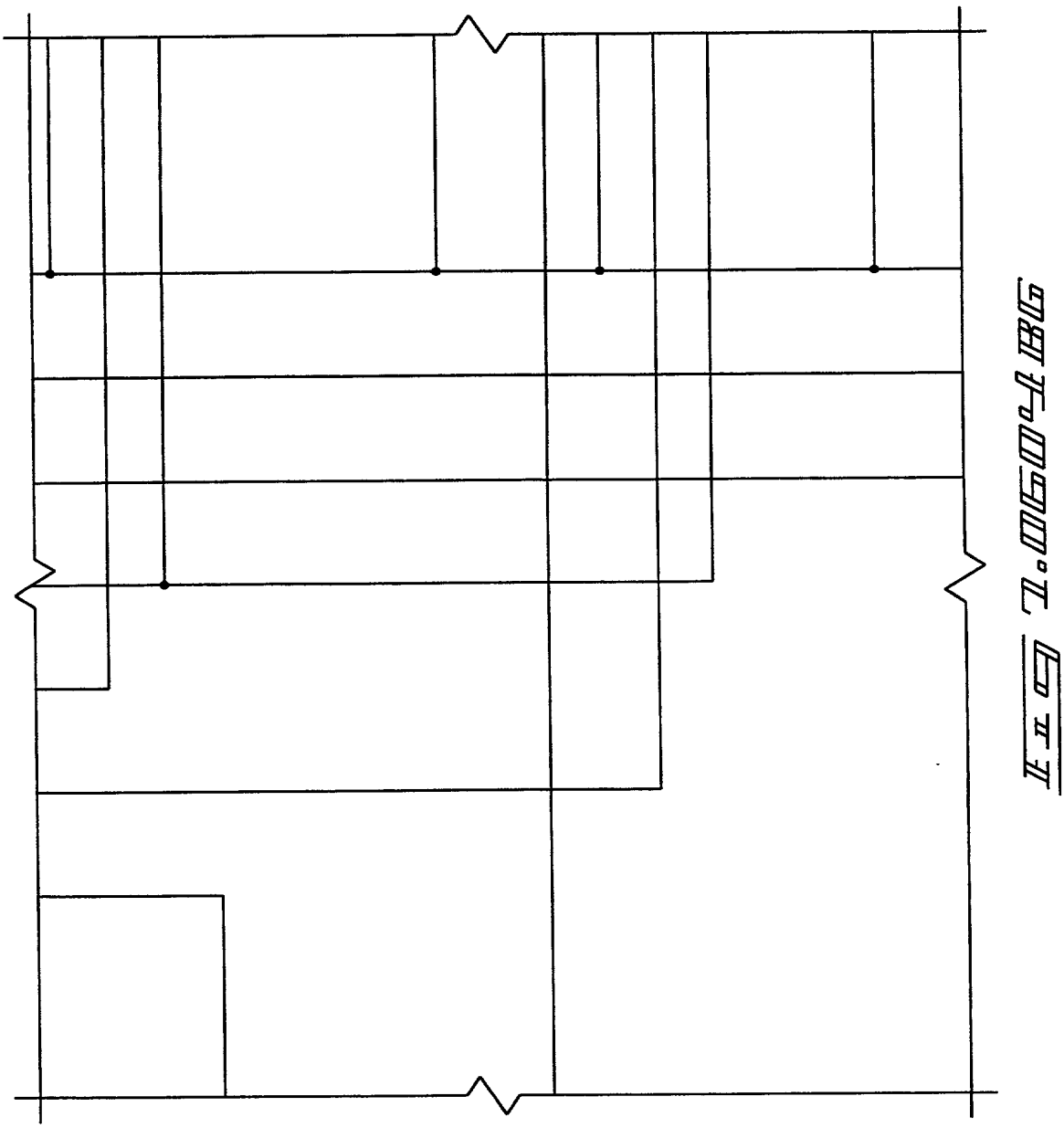
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US 6,952,659 B1

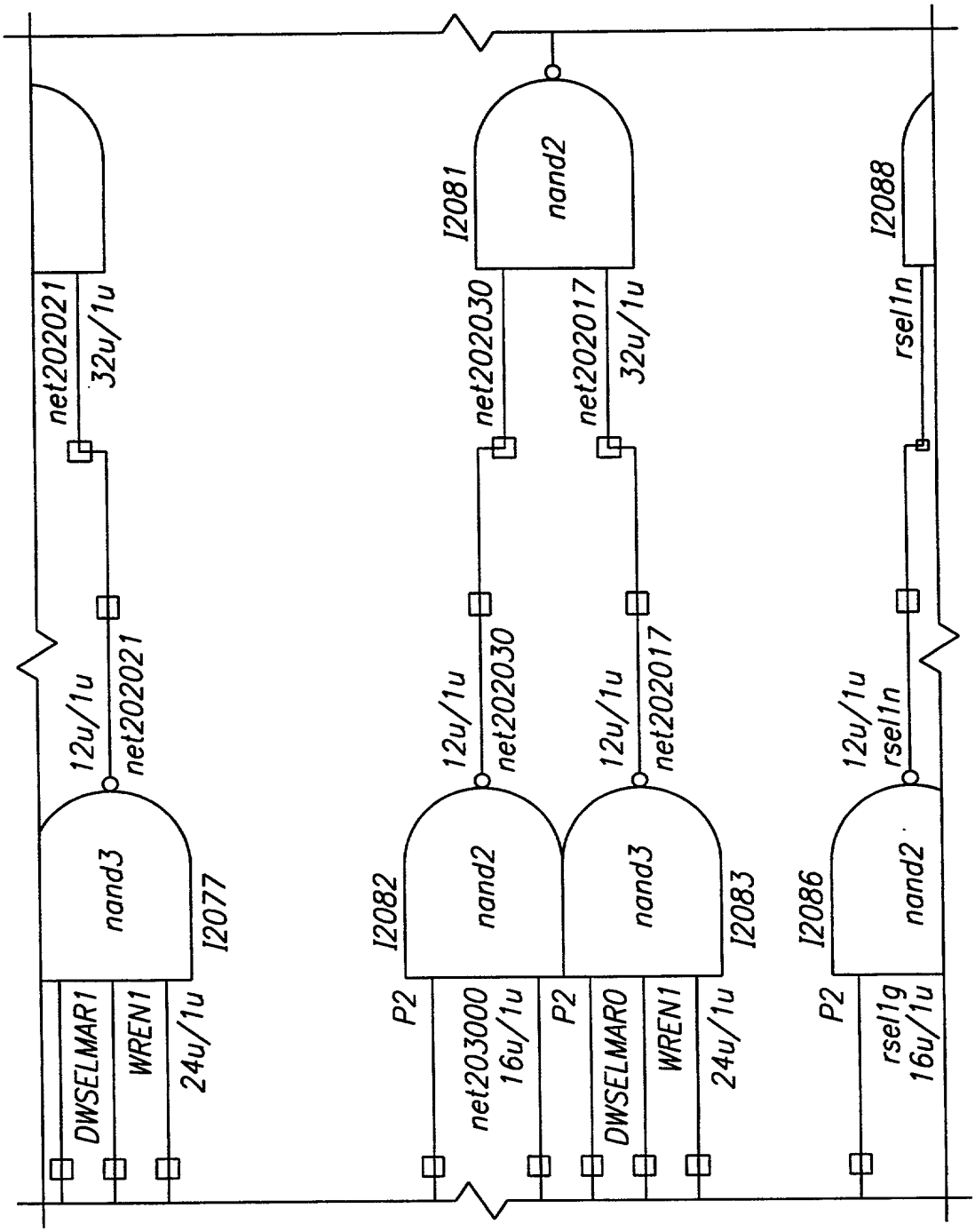


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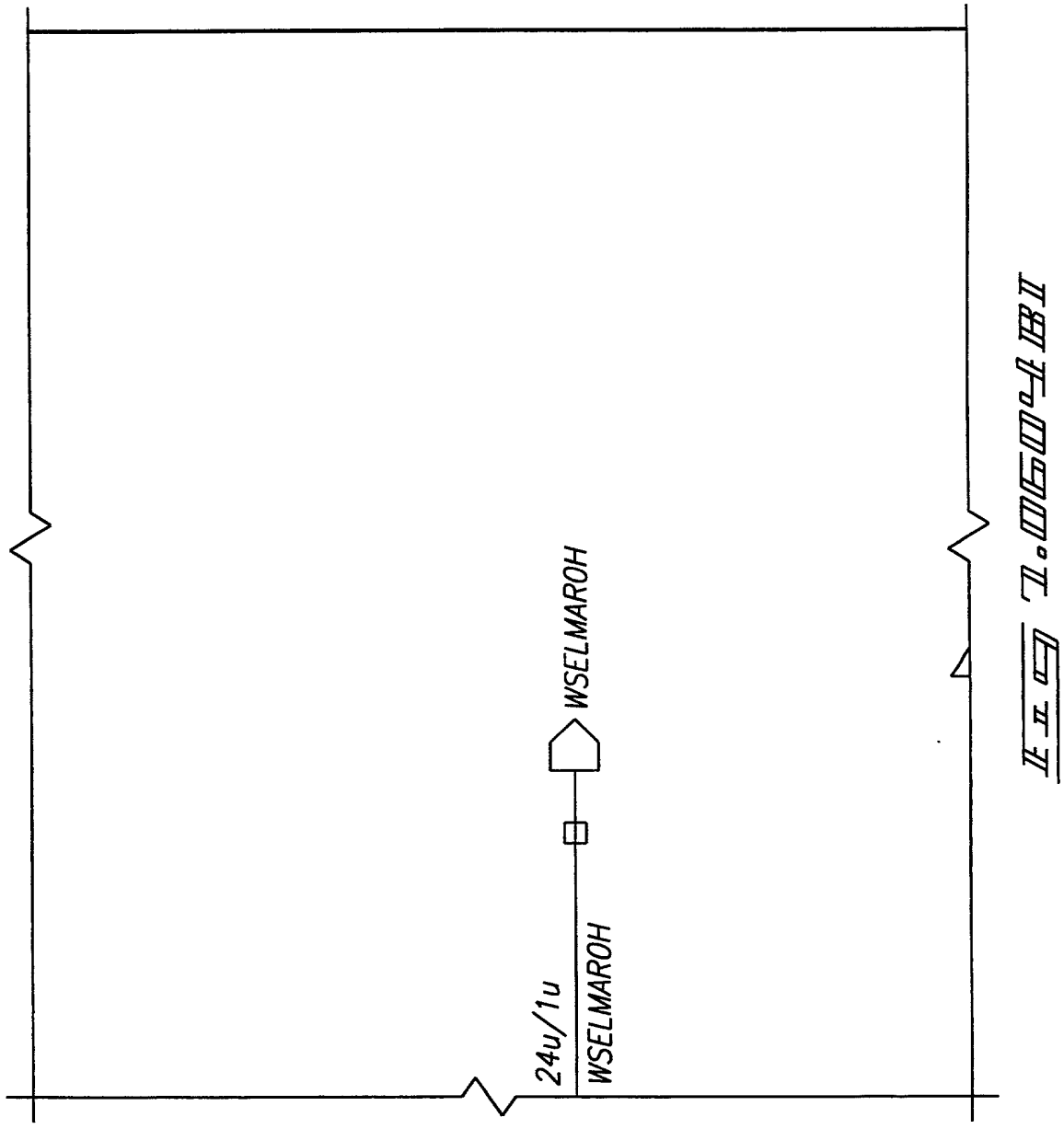
EP 1 250 826 A2

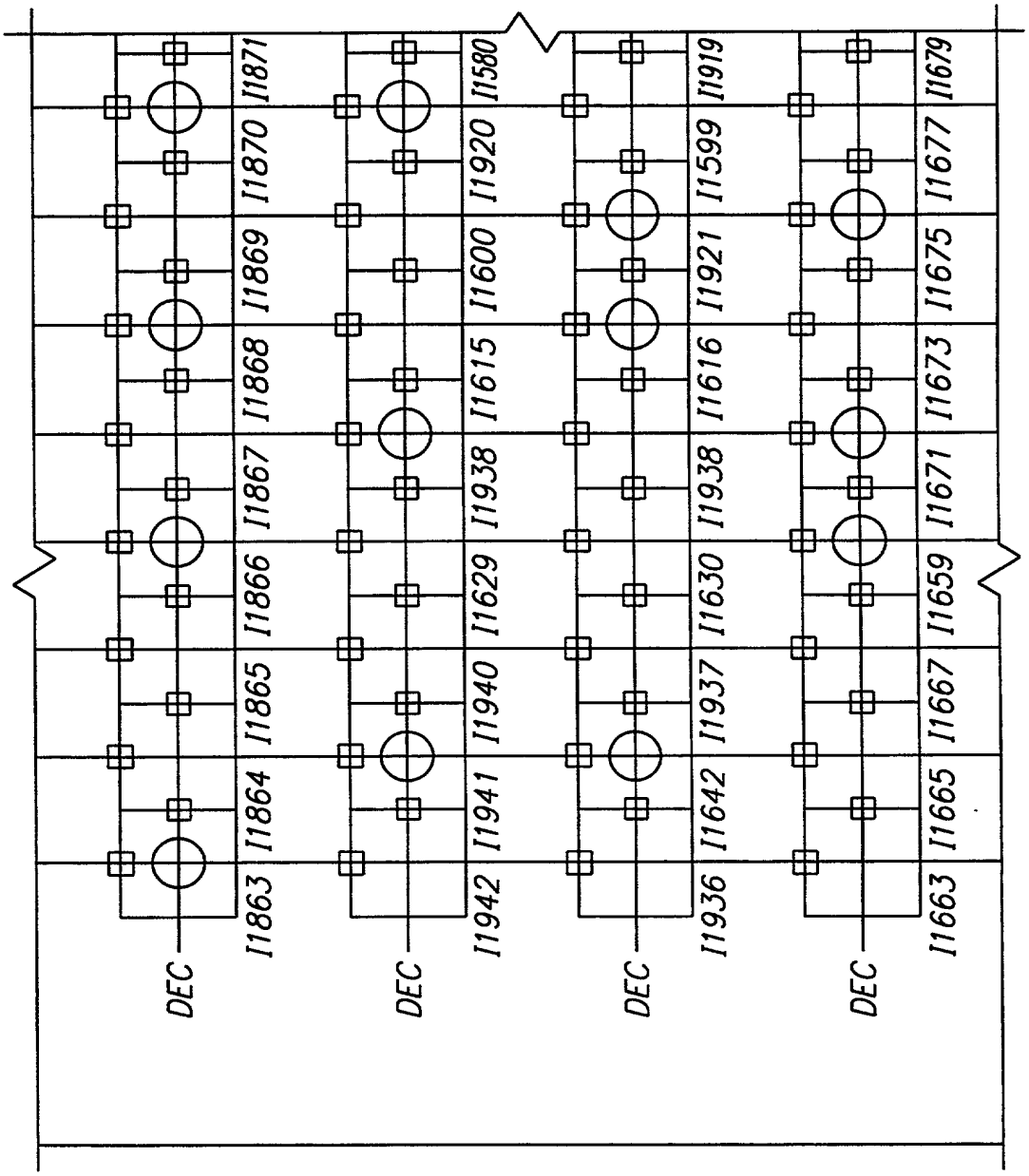


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WREN1
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12u/1u
net202021
net202021
32u/1u
I2082
nand2
P2
net203000
16u/1u
12u/1u
net202030
I2081
nand2
net202030
net202017
32u/1u
I2083
nand3
P2
DWSELMAR0
WREN1
24u/1u
12u/1u
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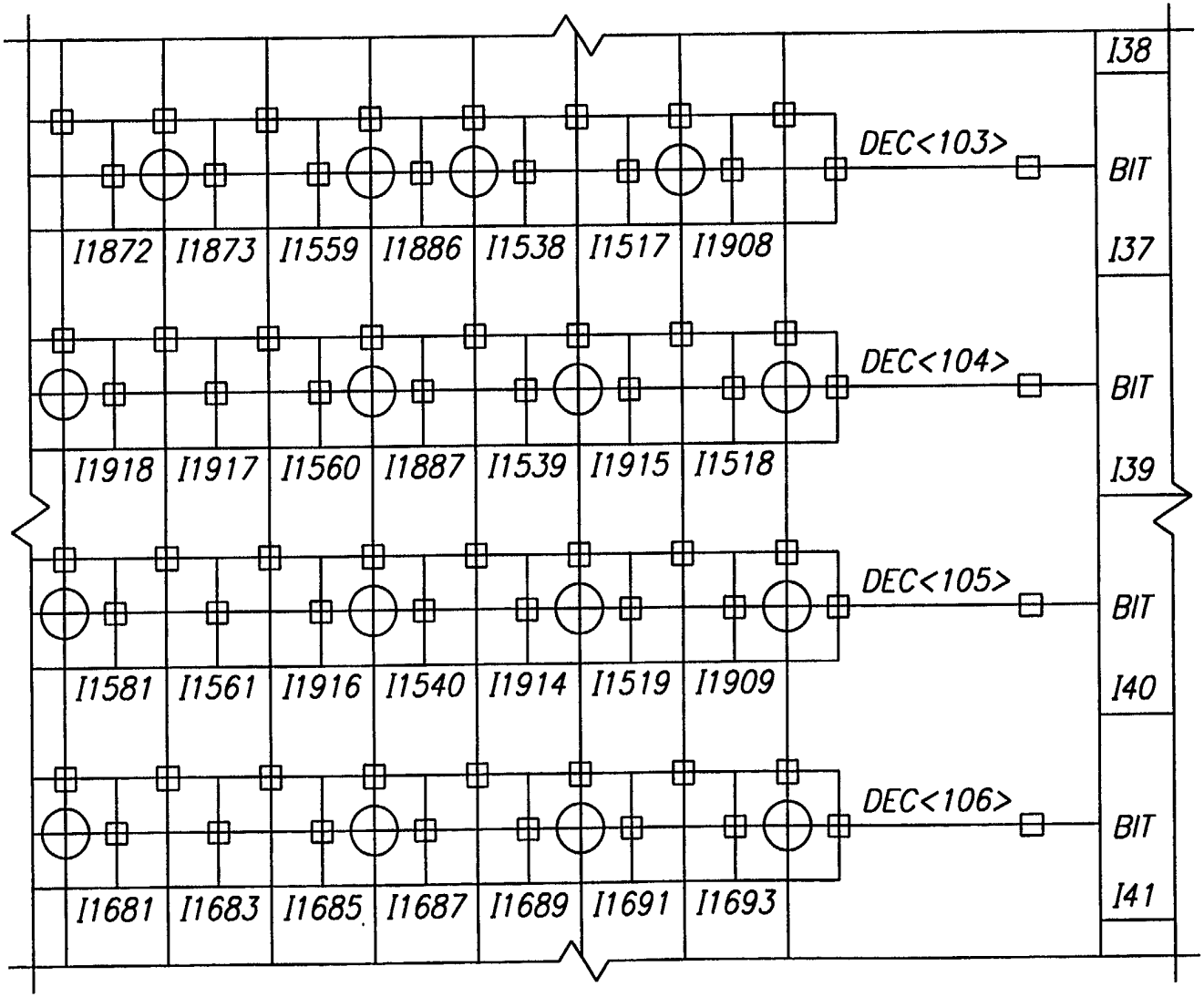
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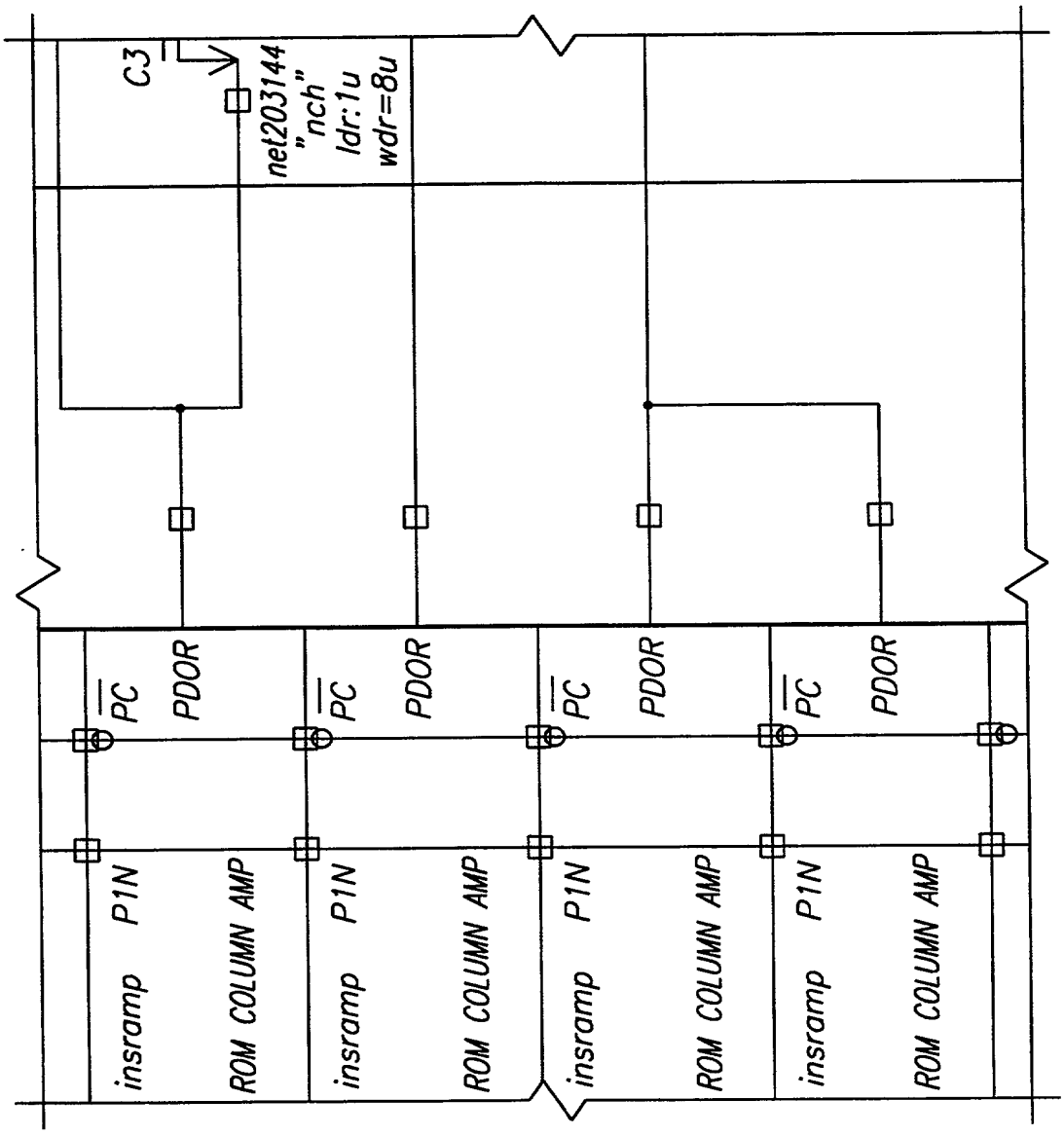


Фиг. 1.0050-1

Patent application



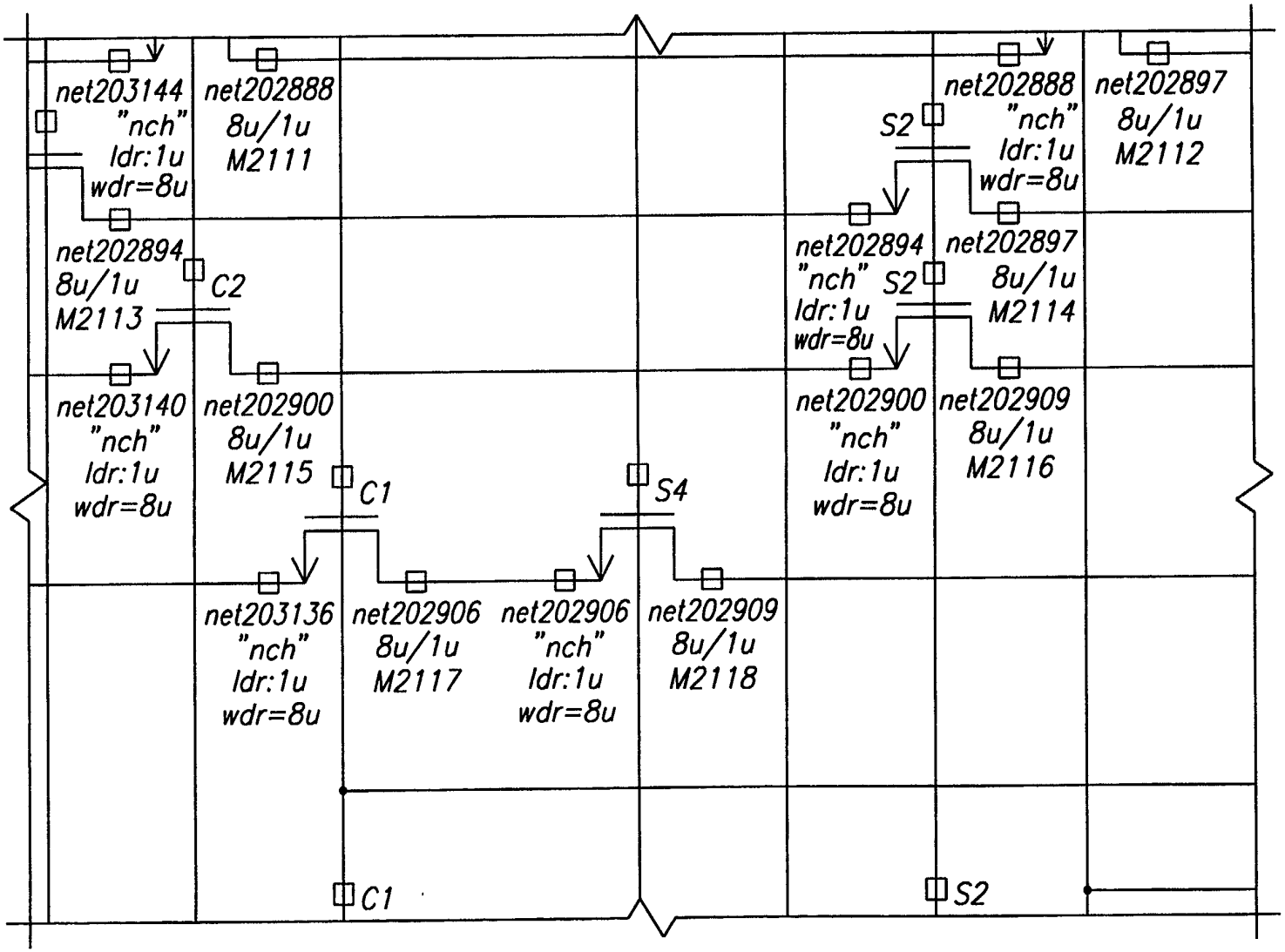
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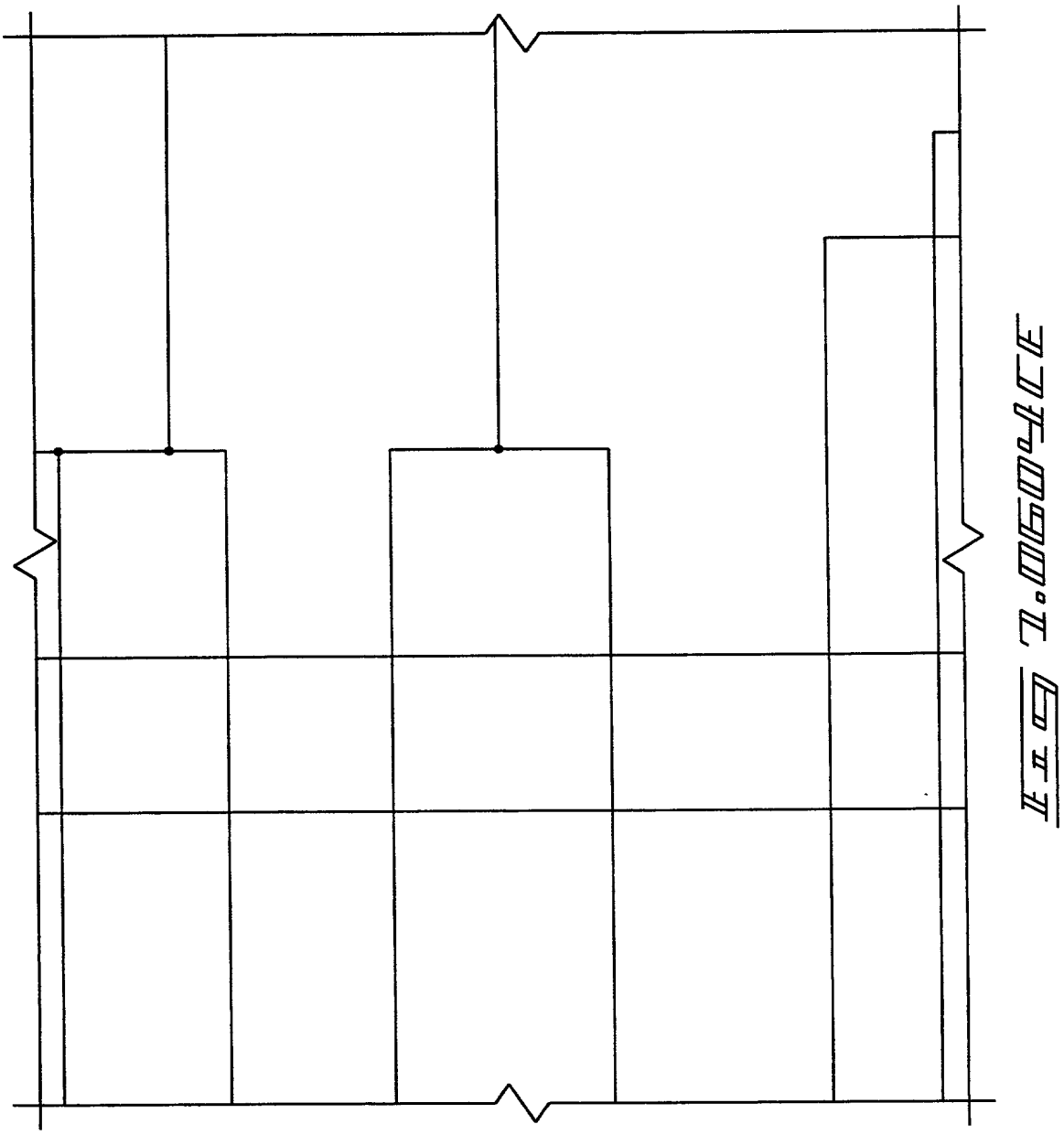
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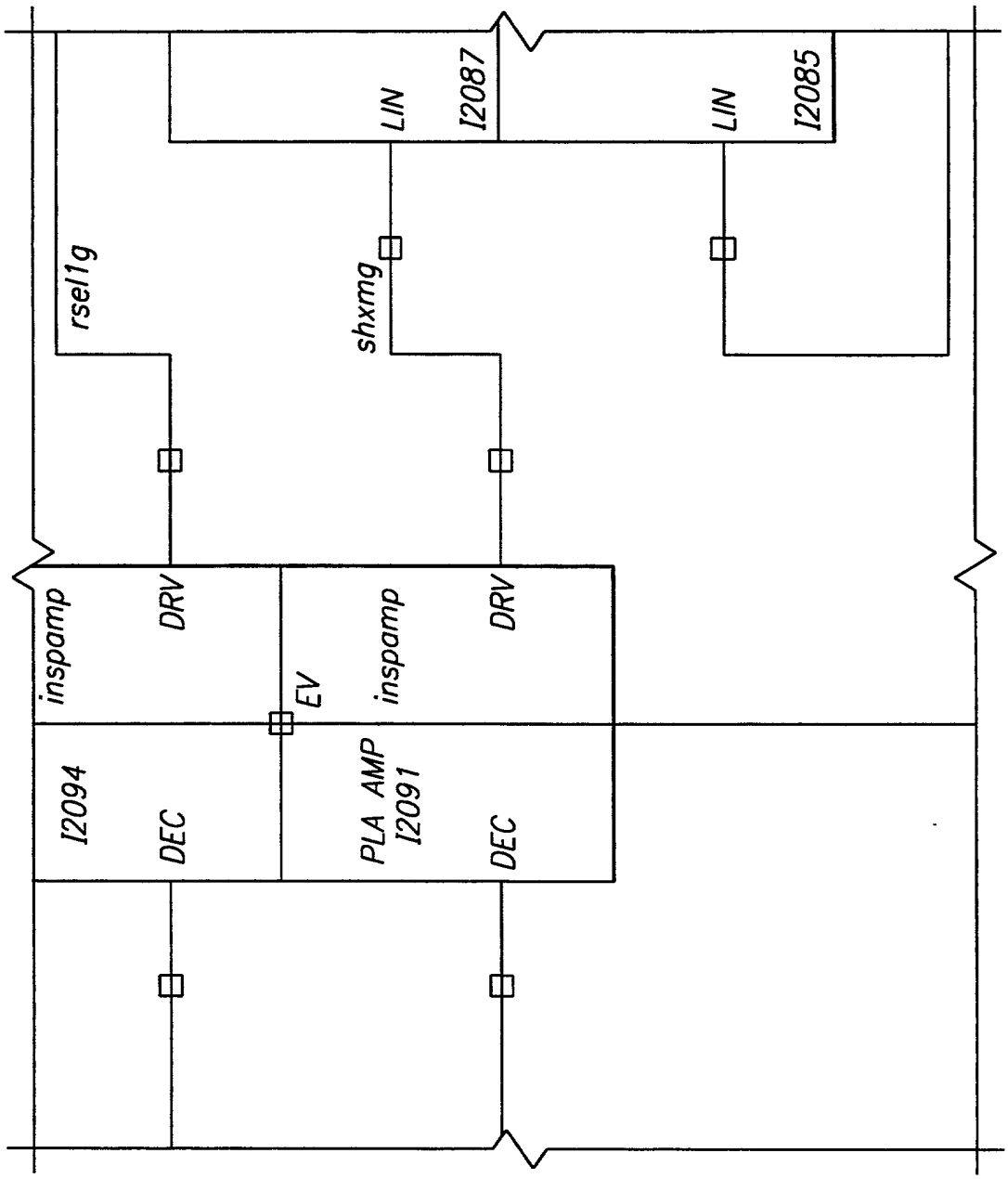


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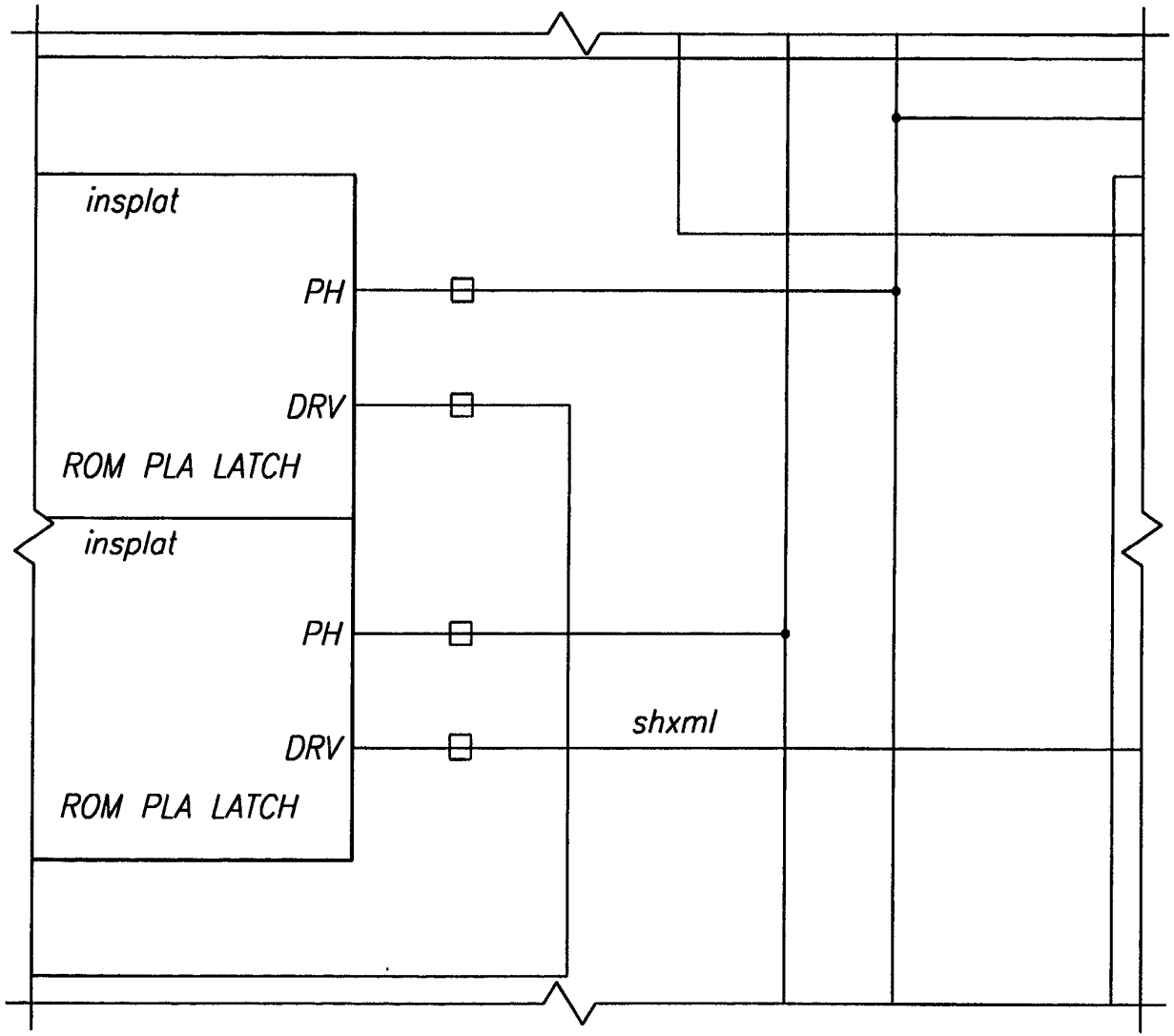
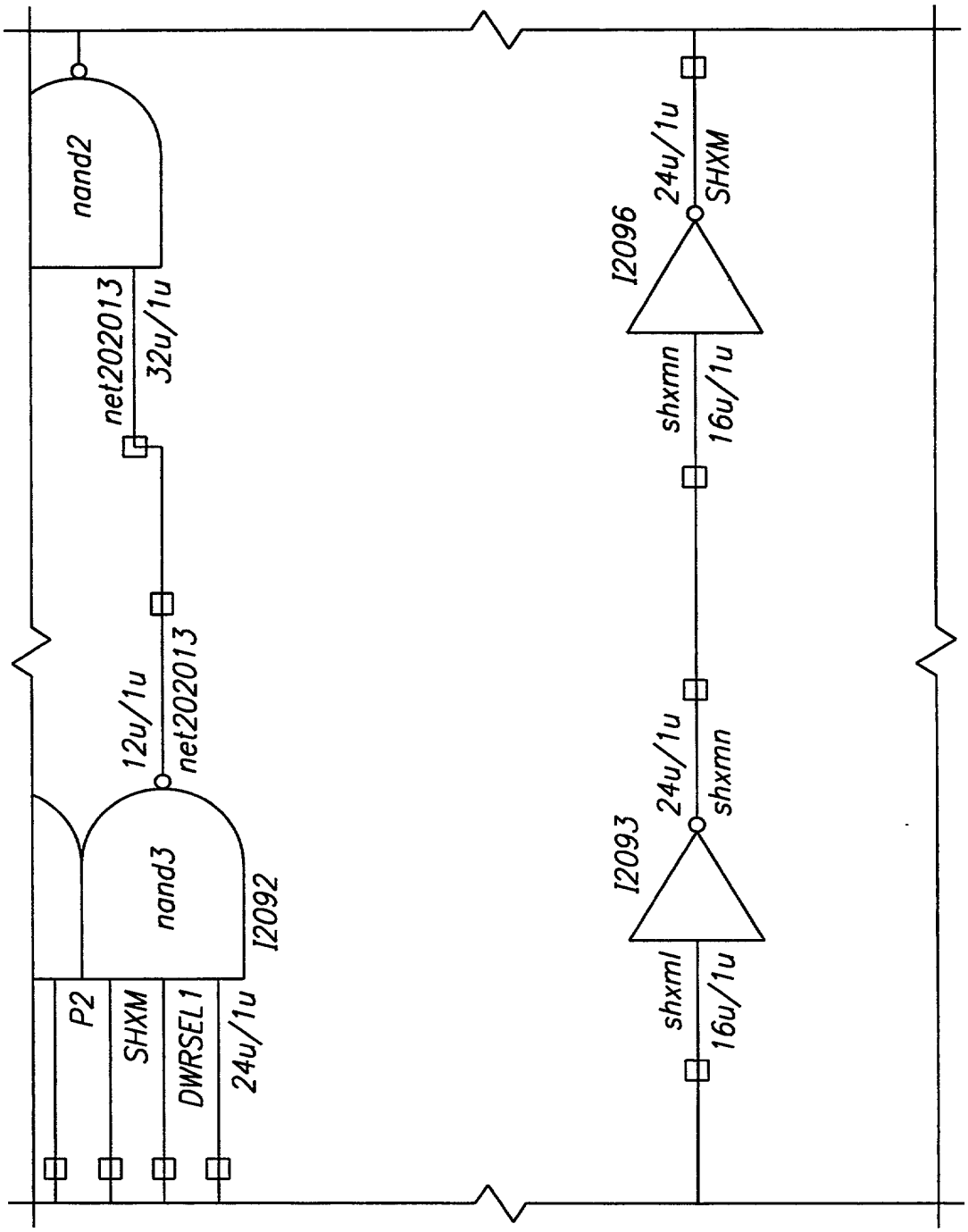

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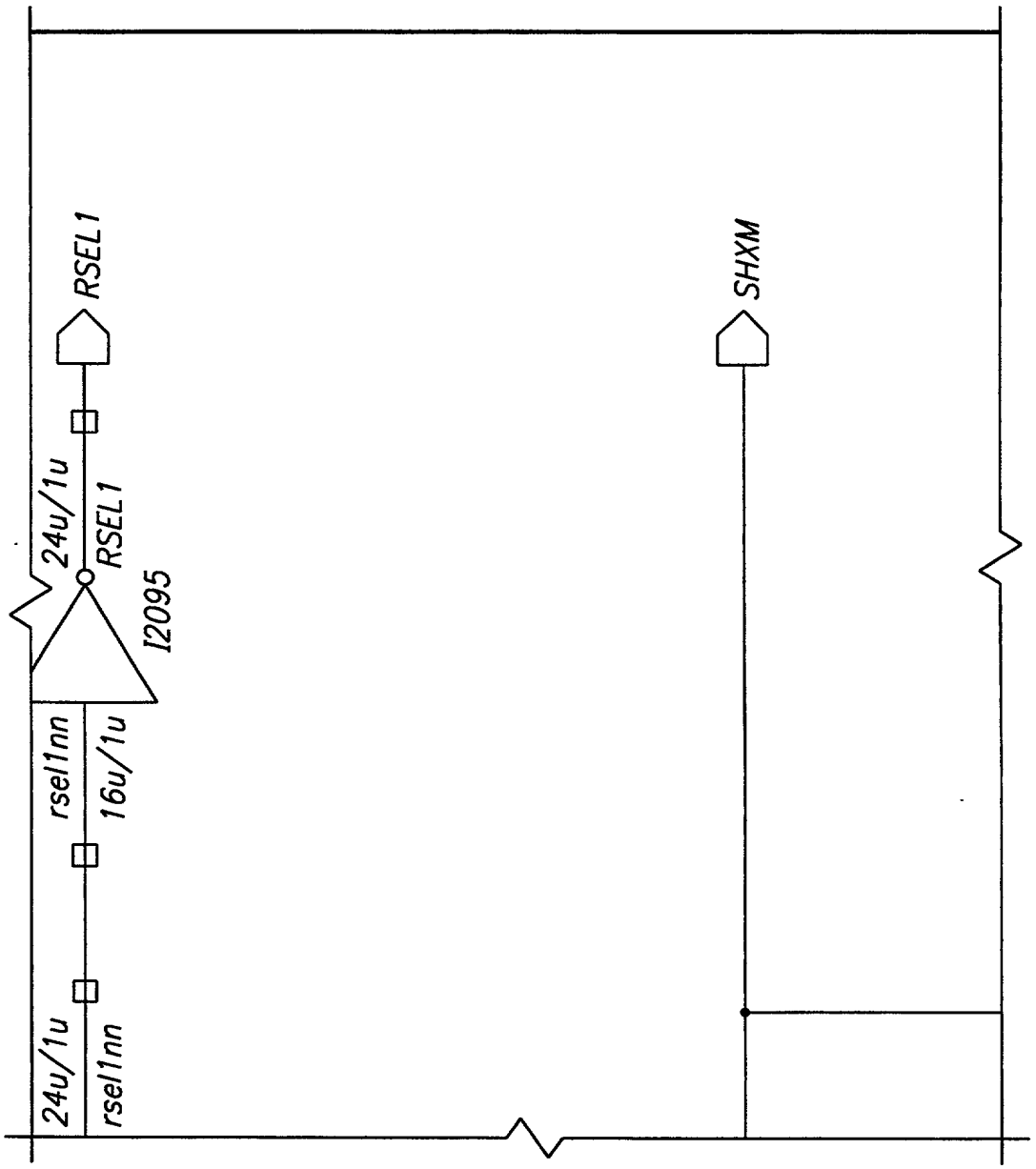
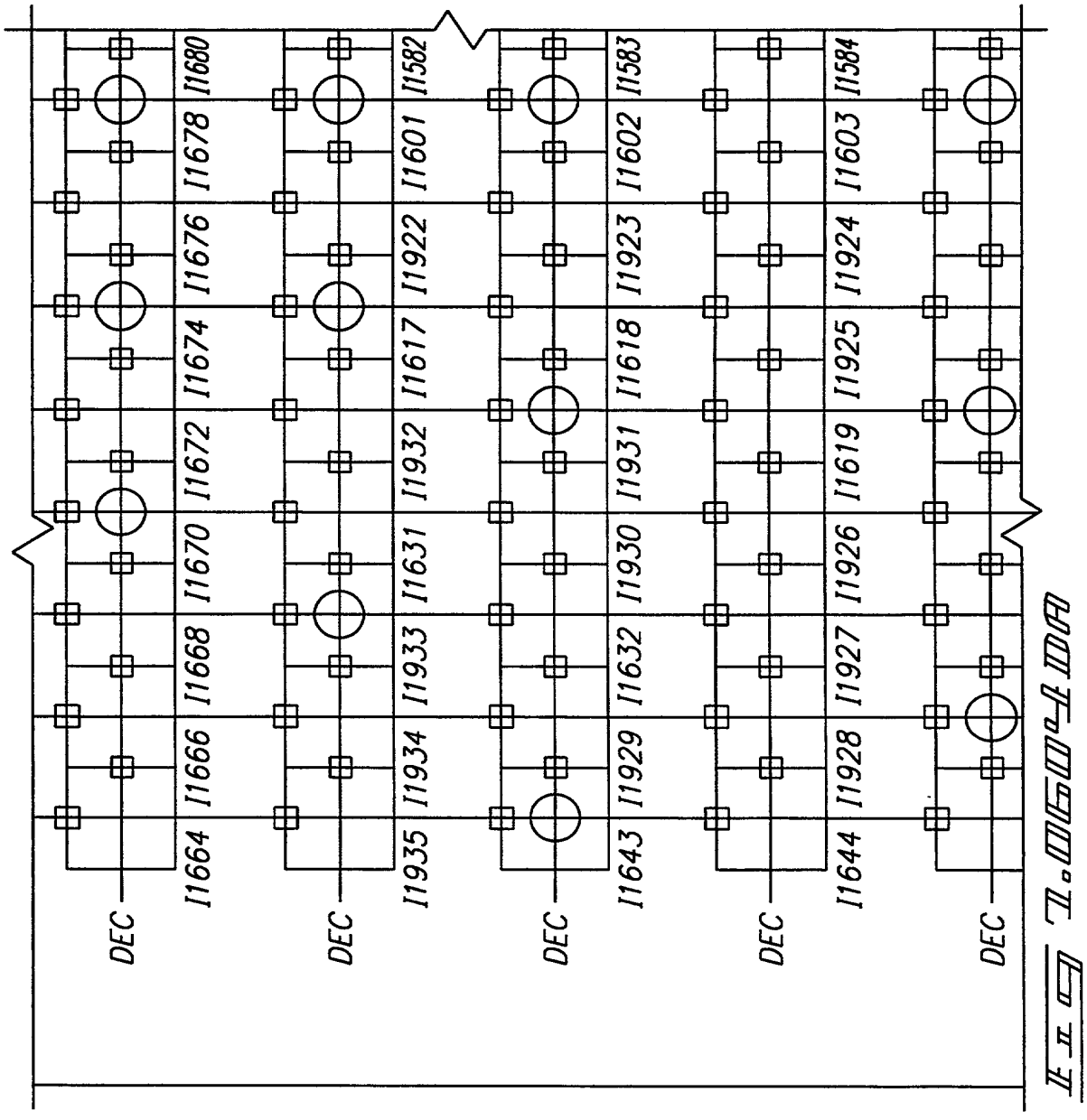
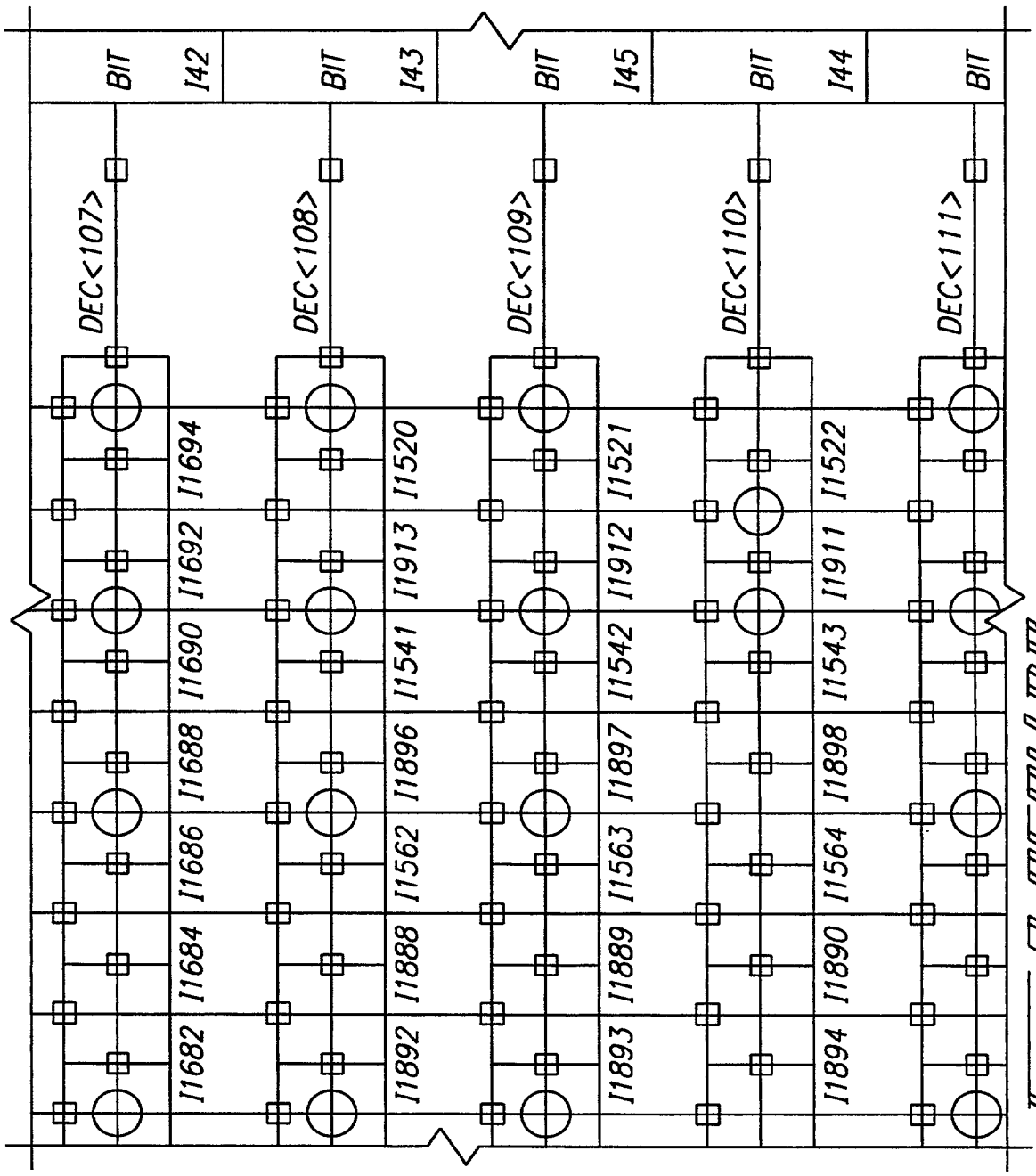


Fig. 1

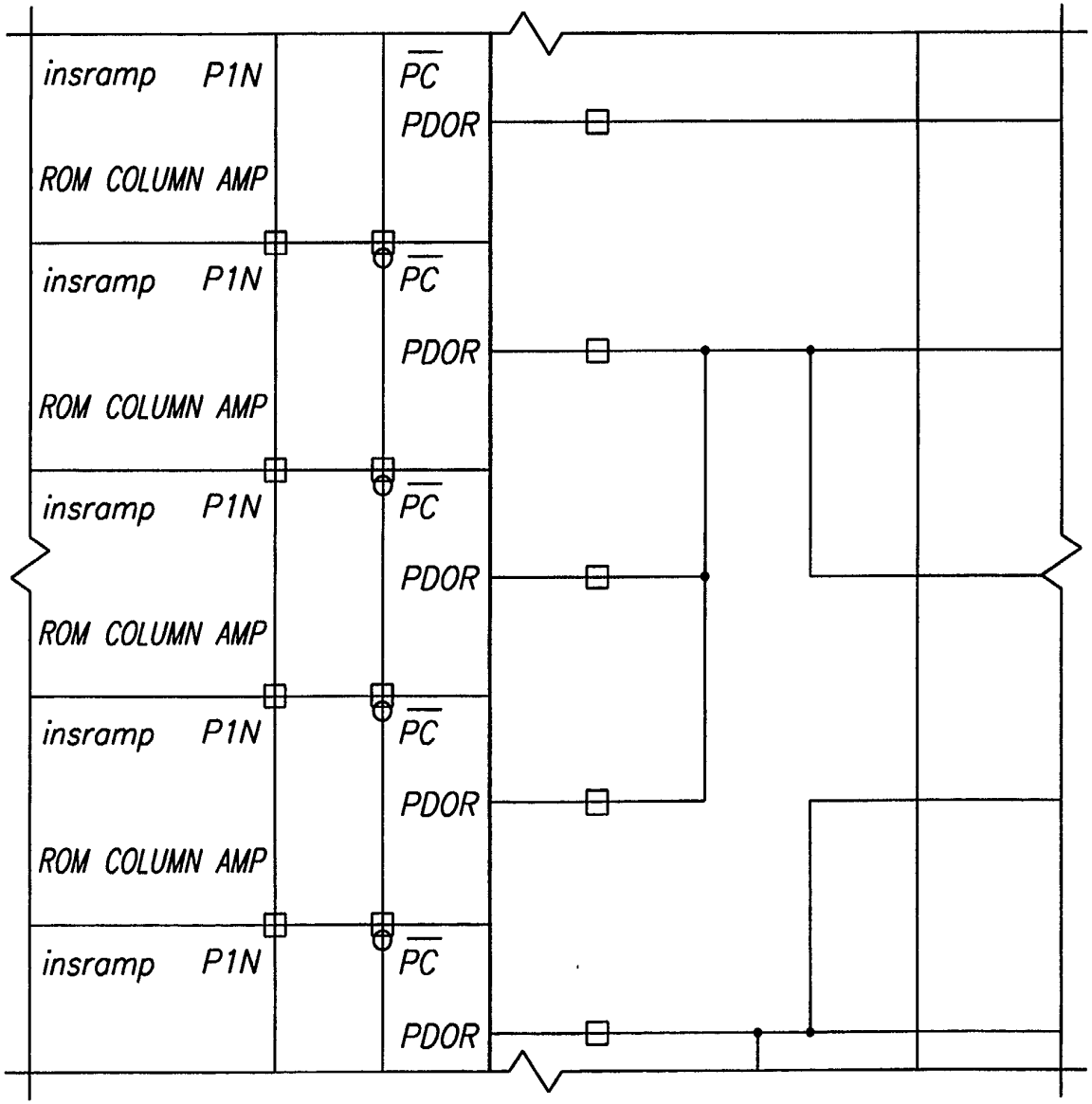


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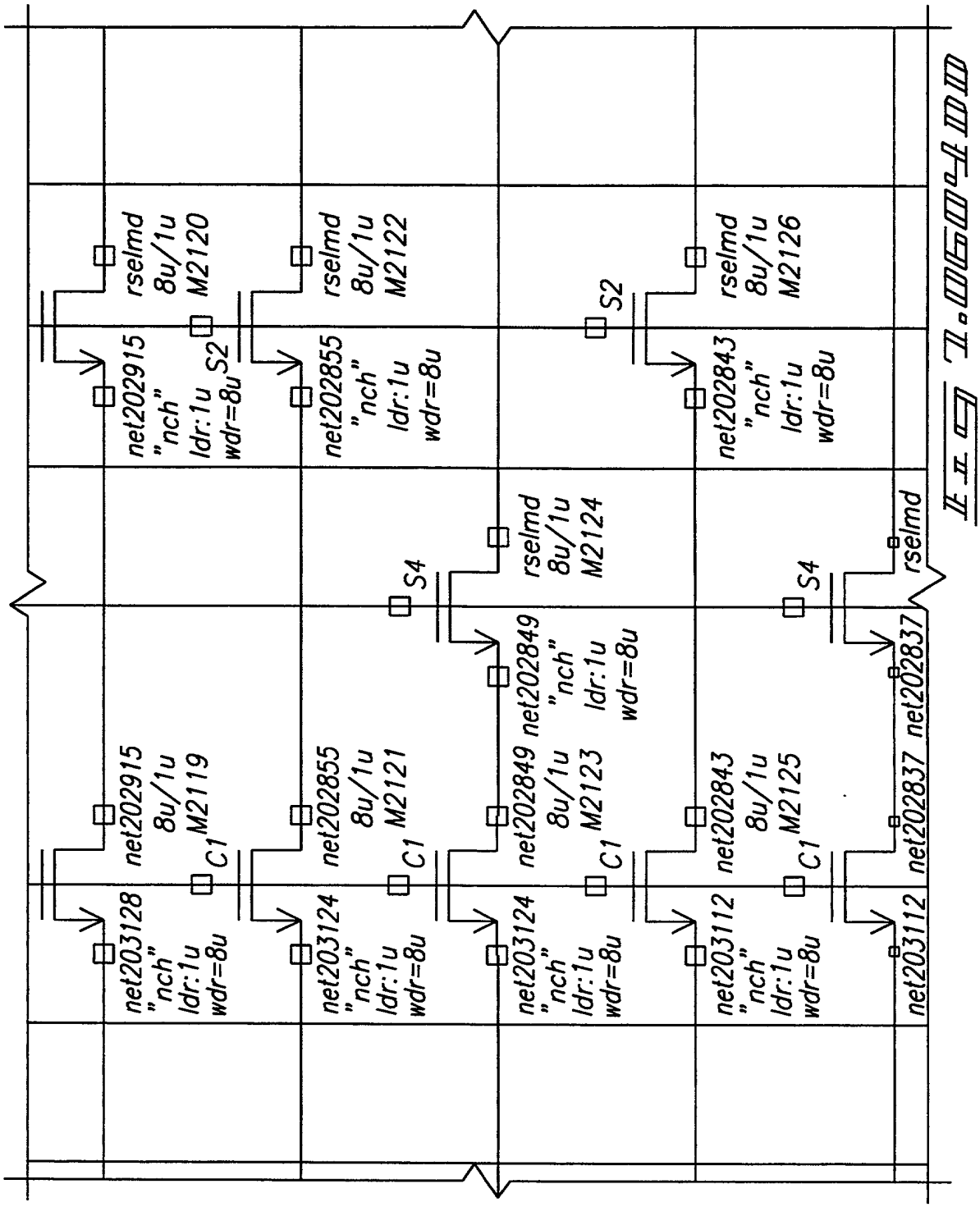
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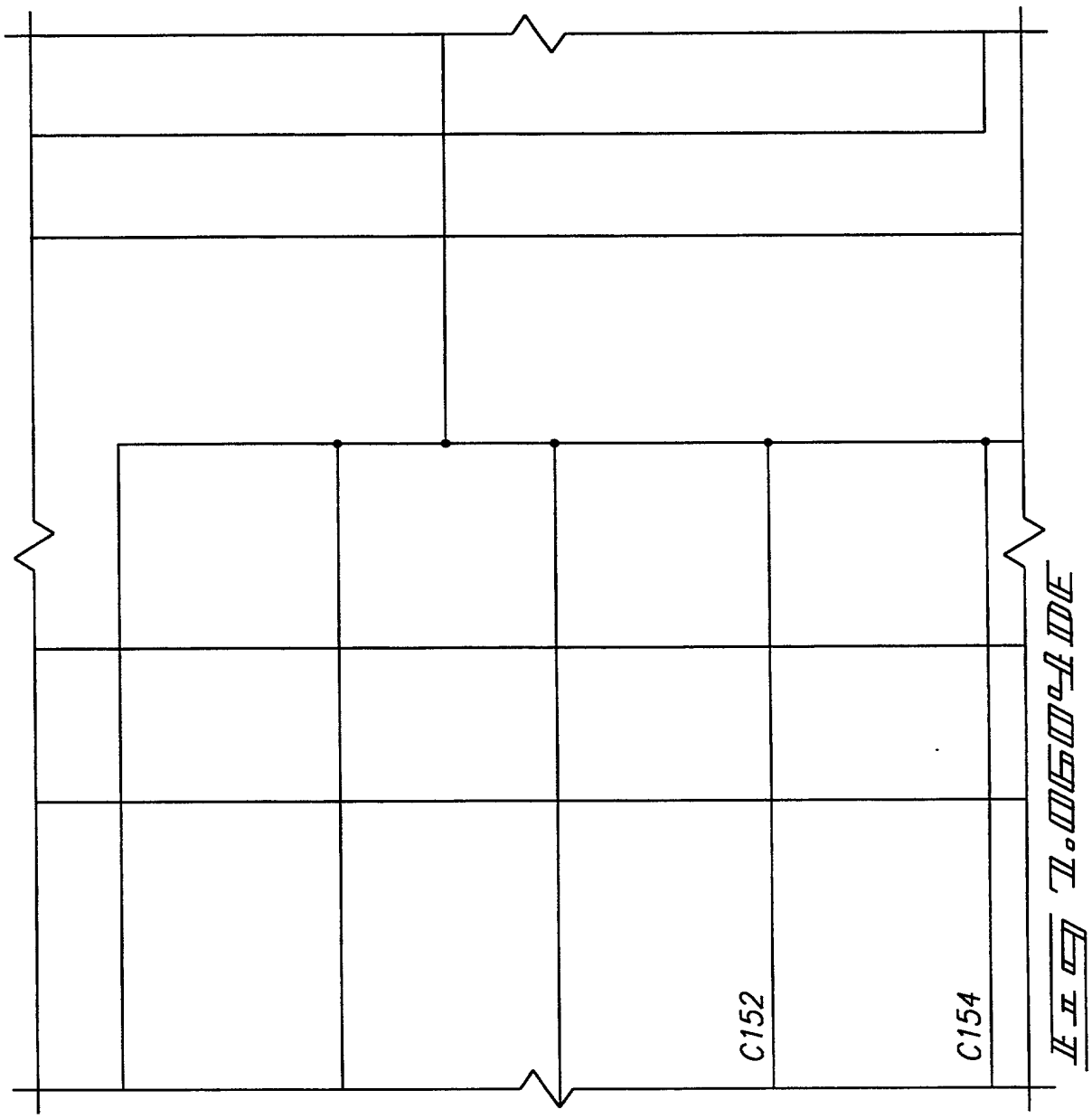
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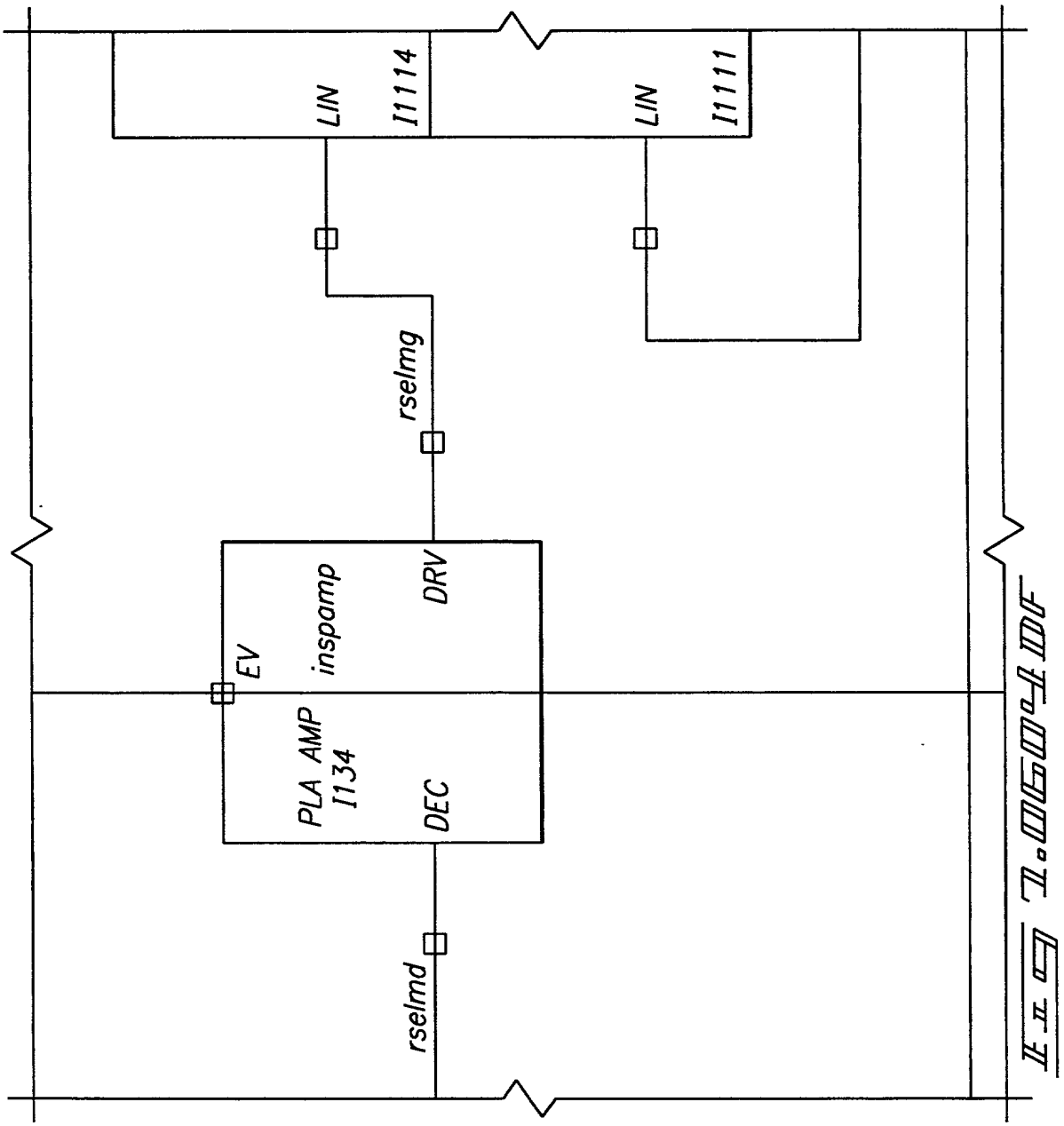
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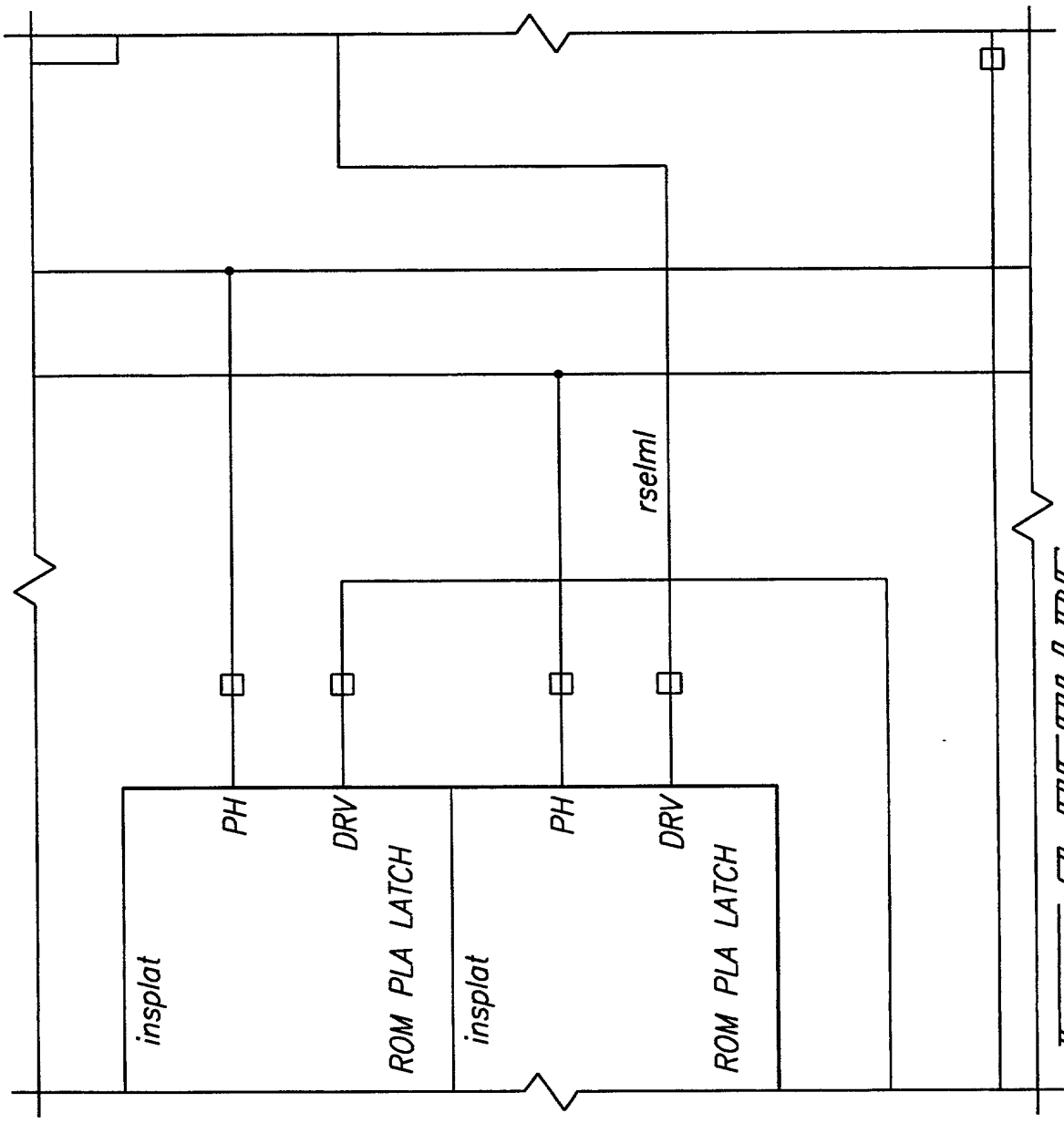
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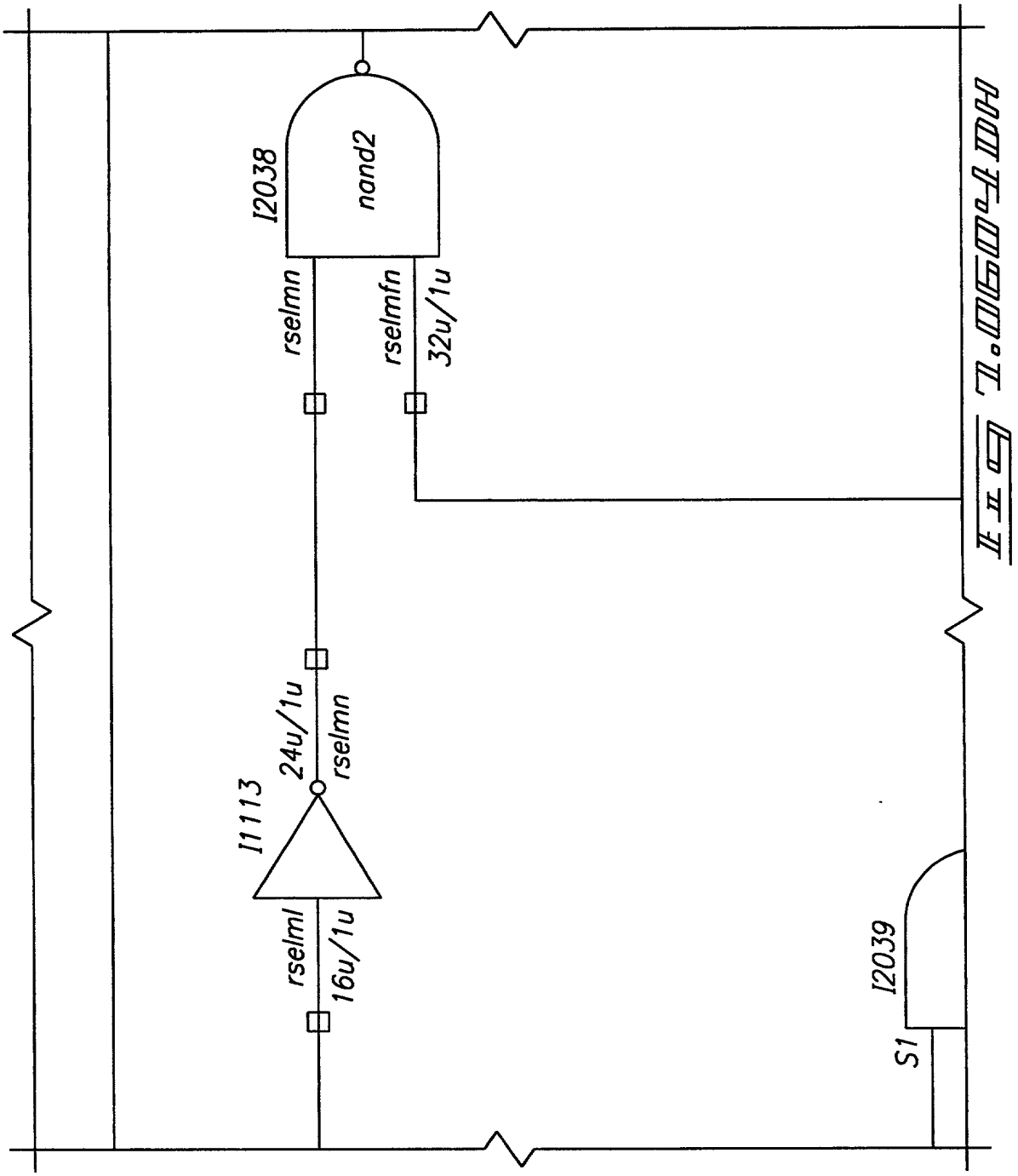
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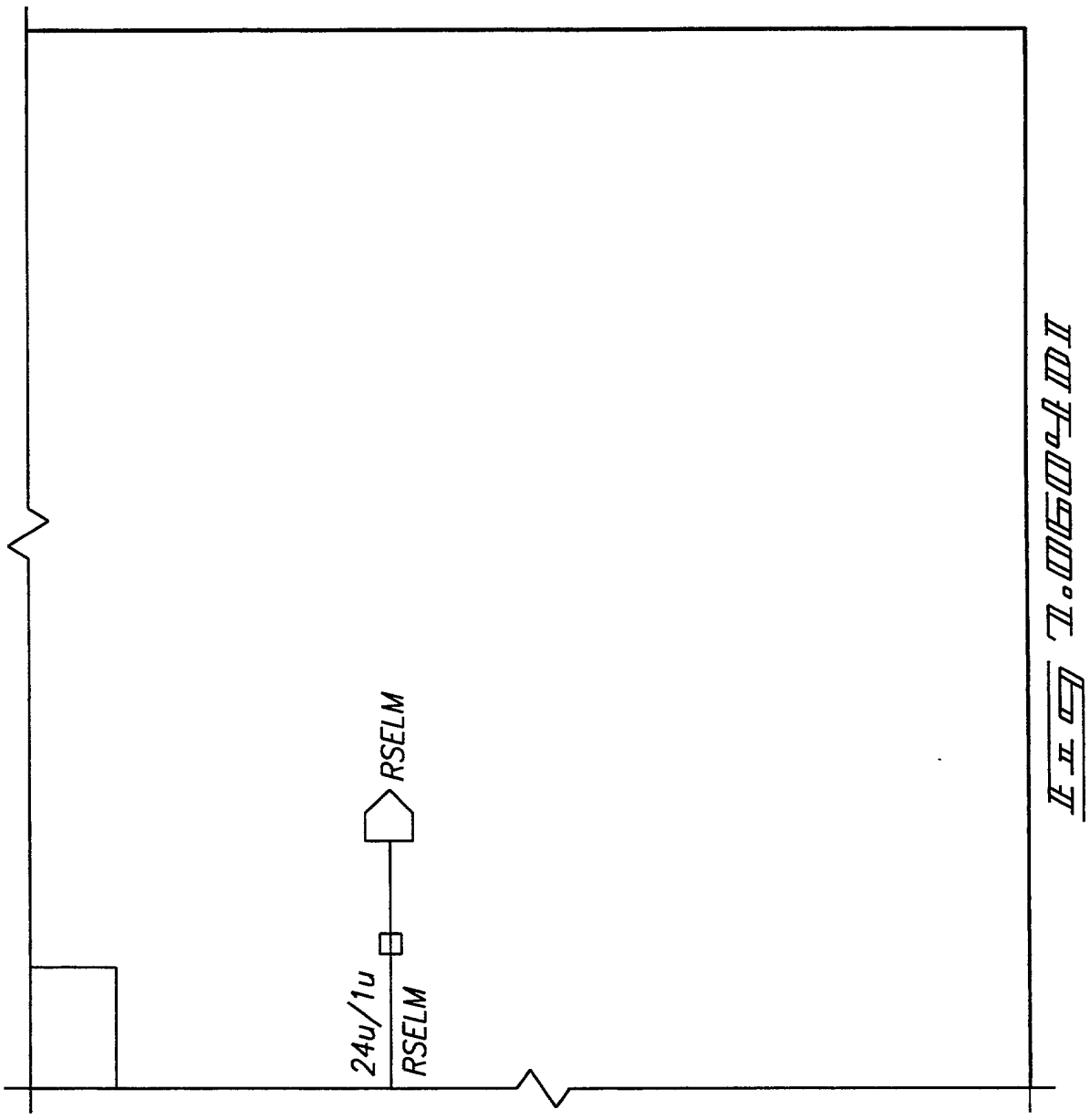


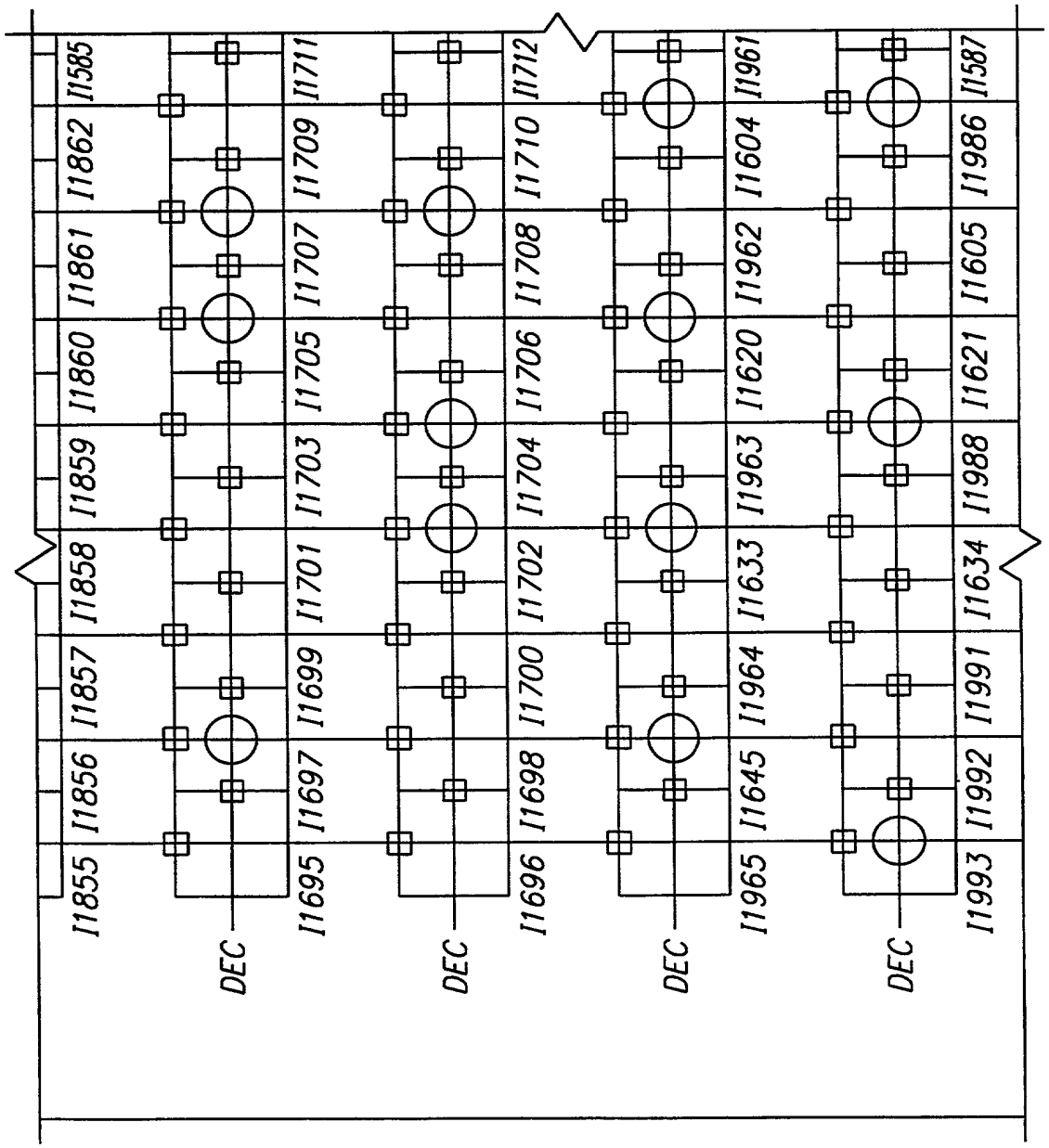
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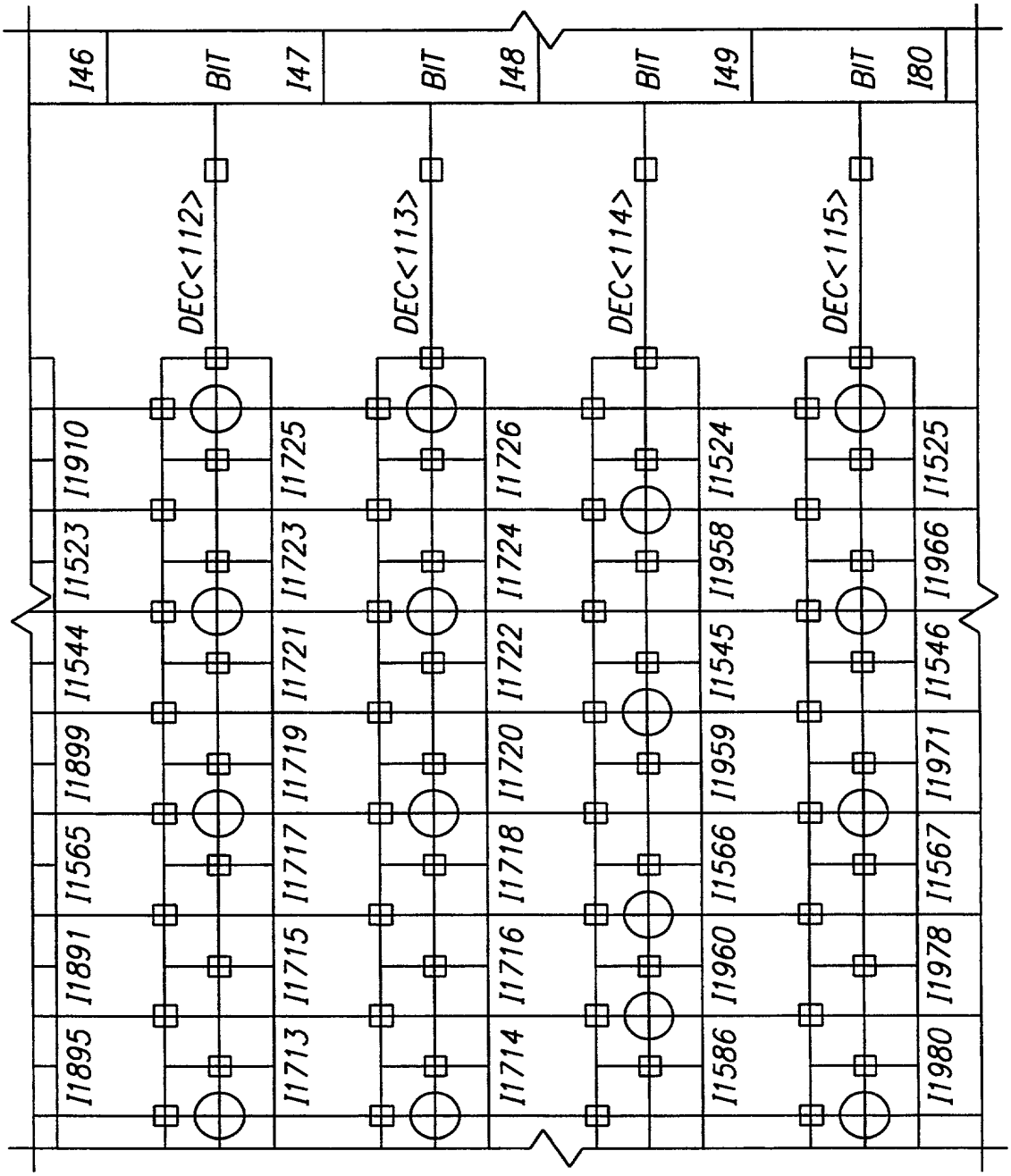
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Фиг. 5

Patent Publication

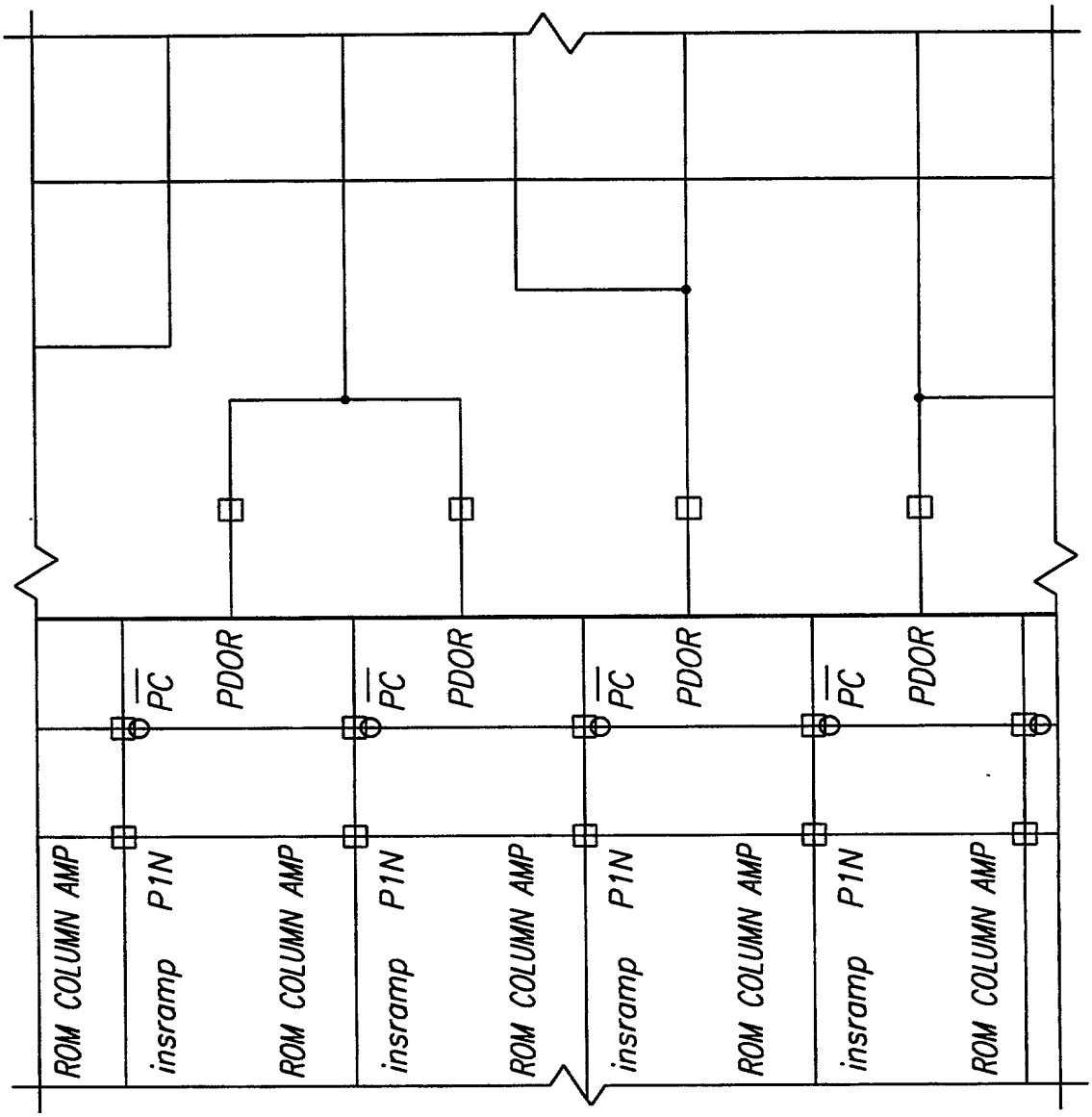
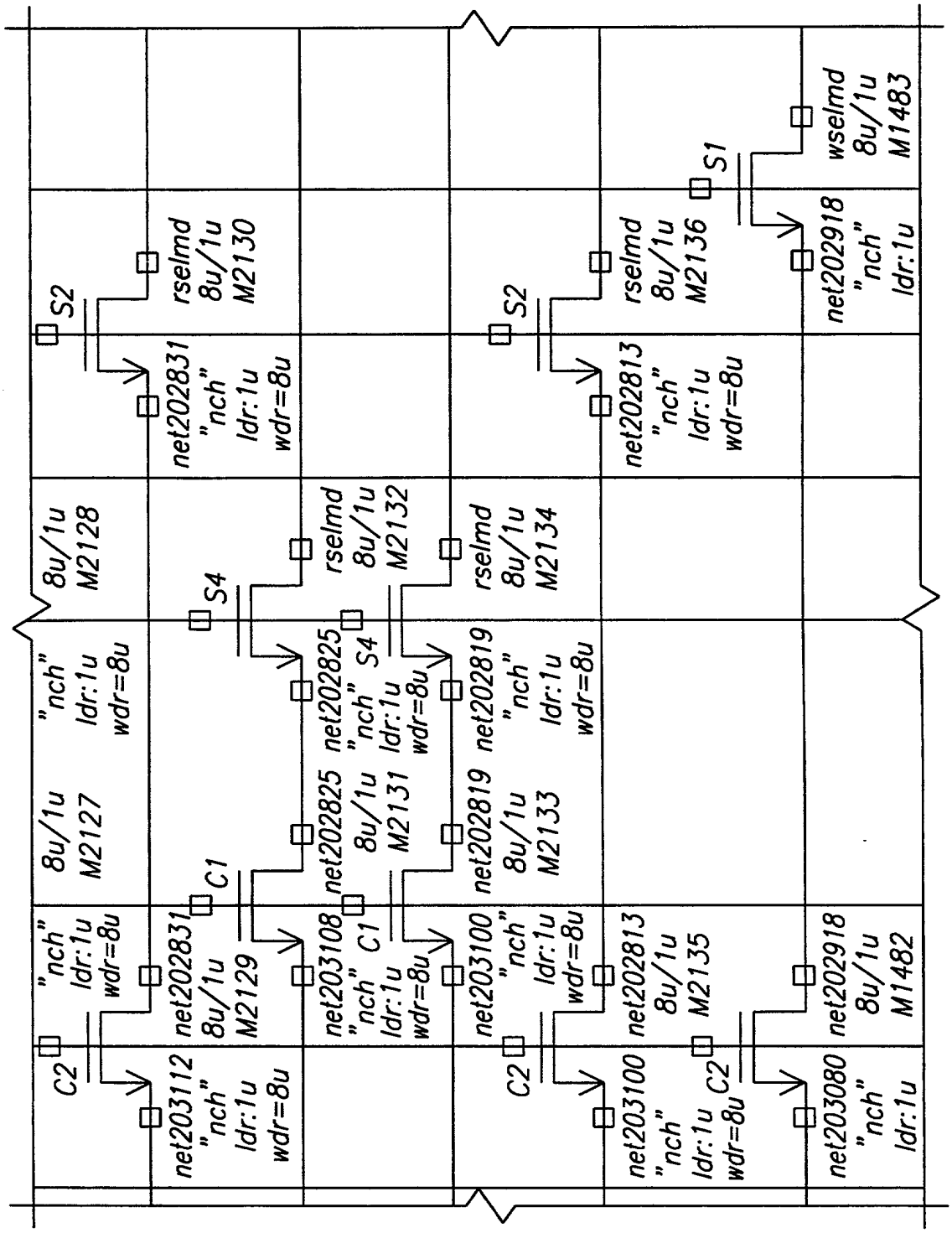
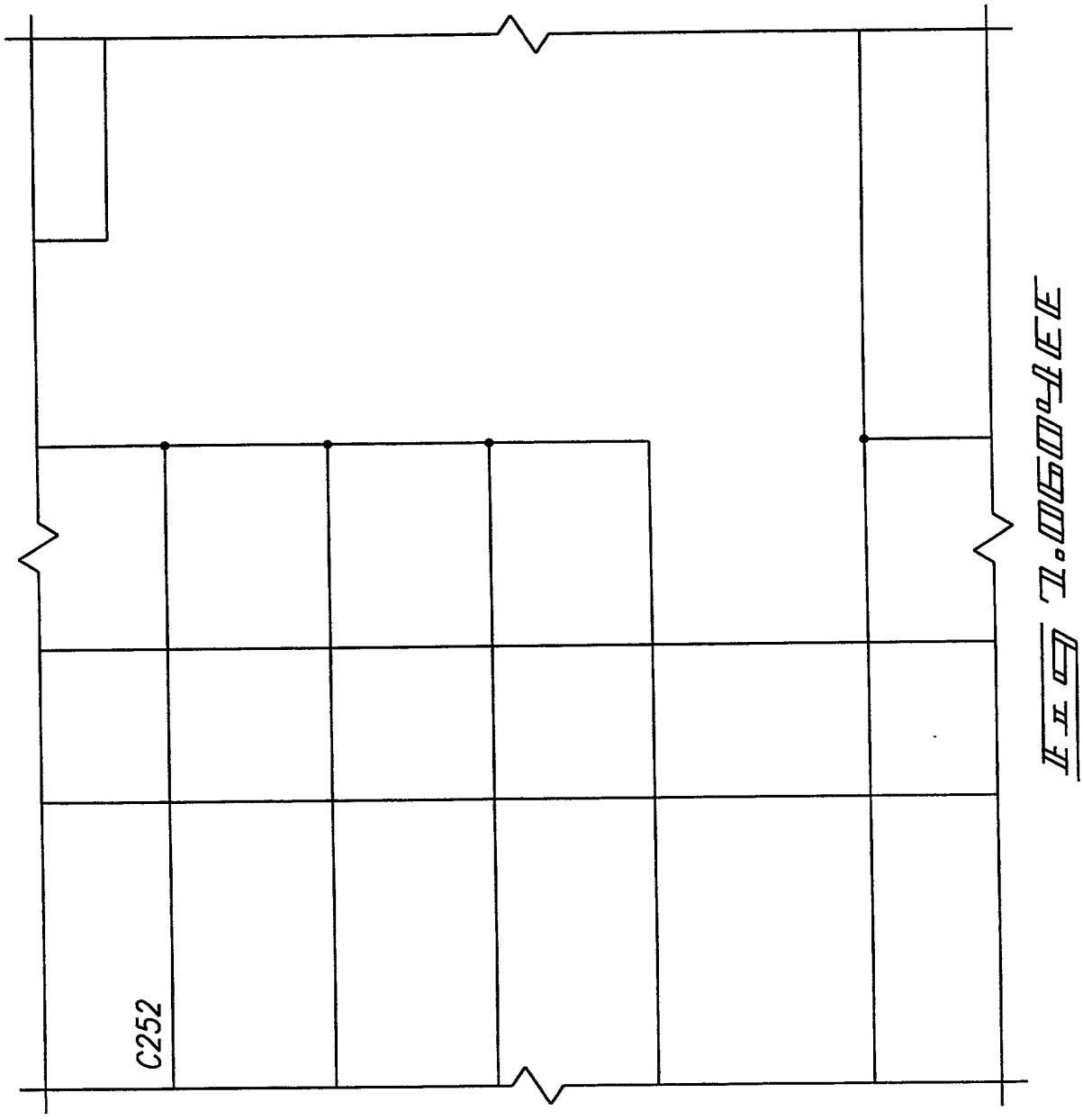


Fig. 1

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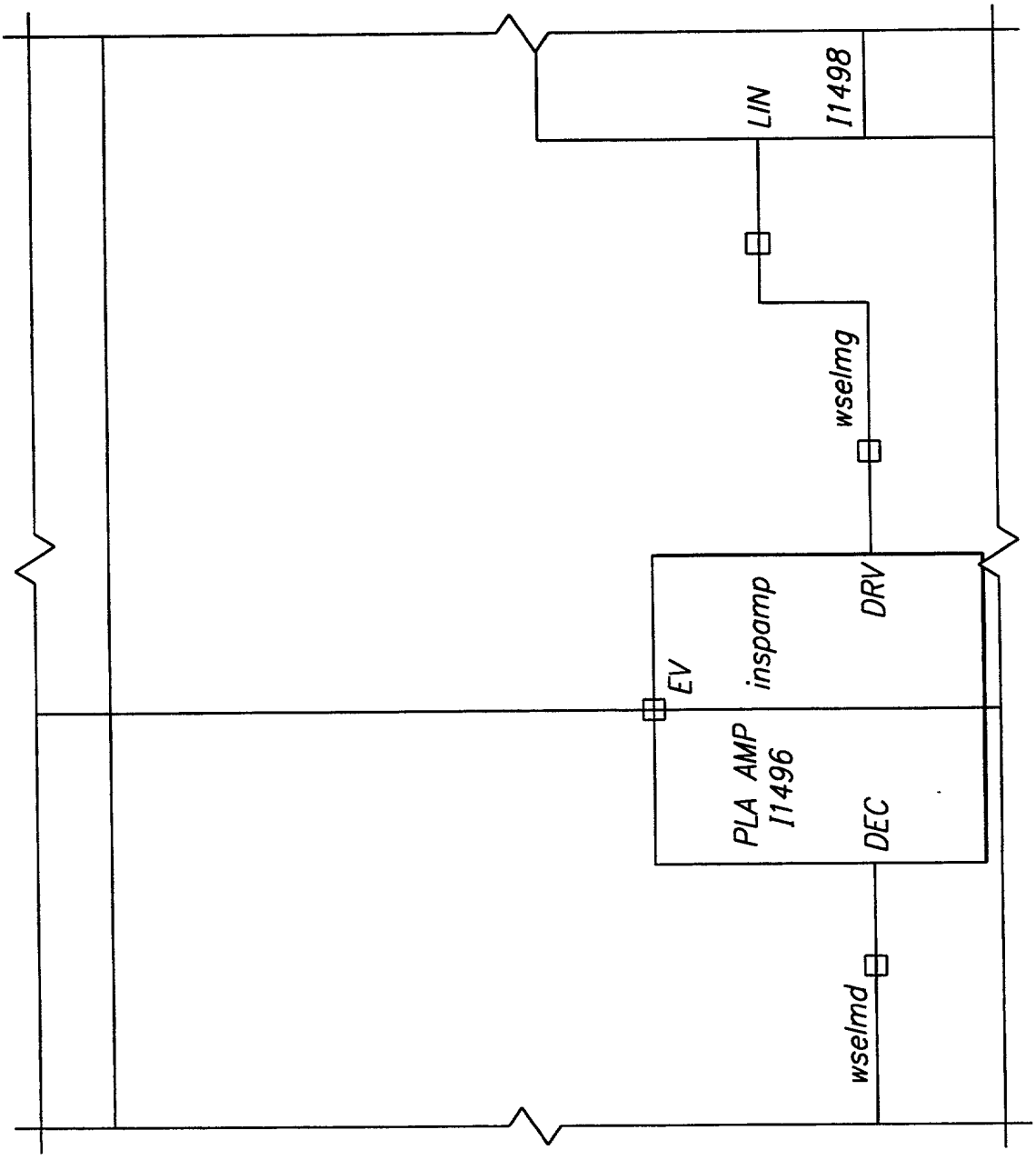
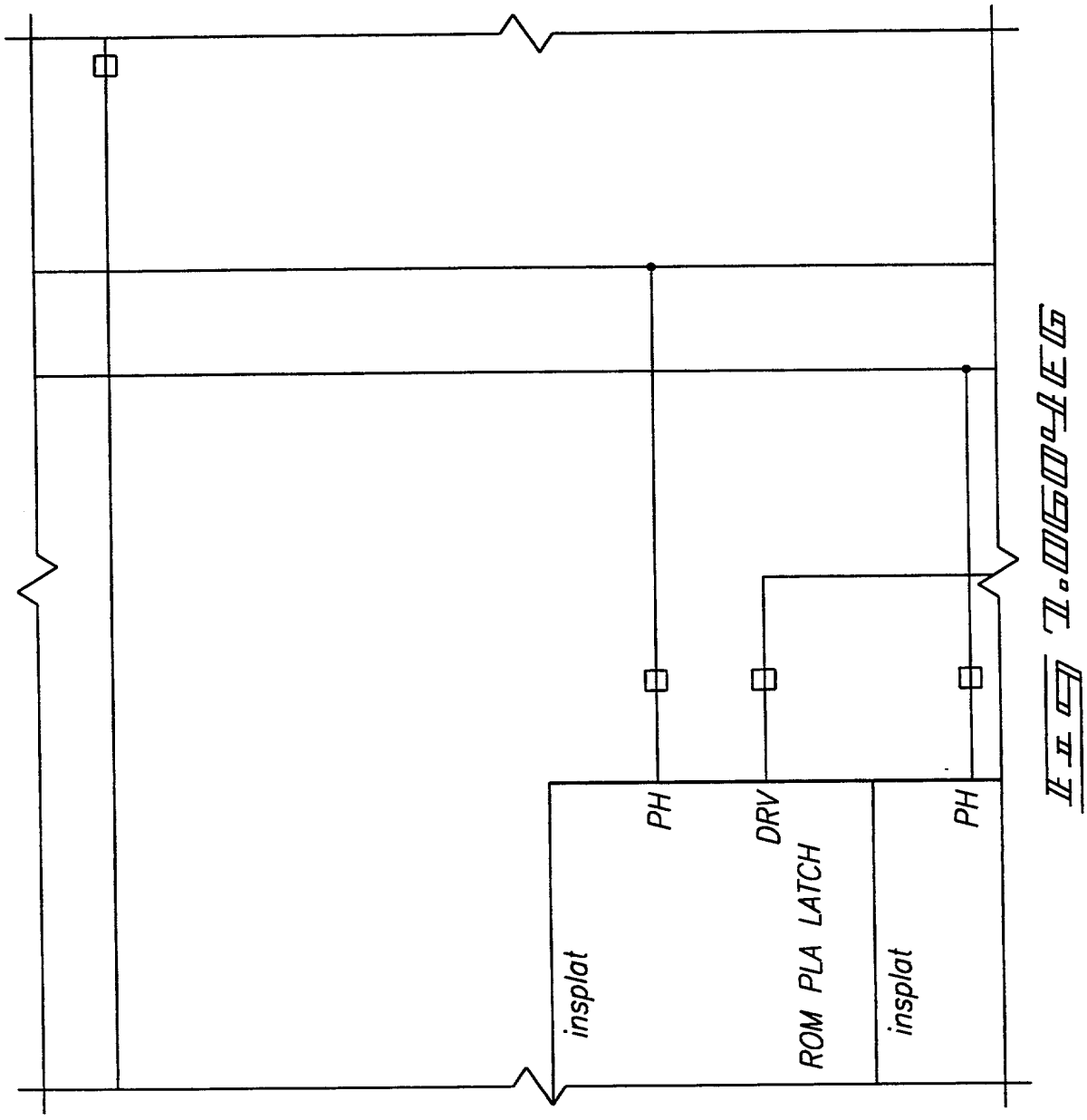


FIG. 11.0594E

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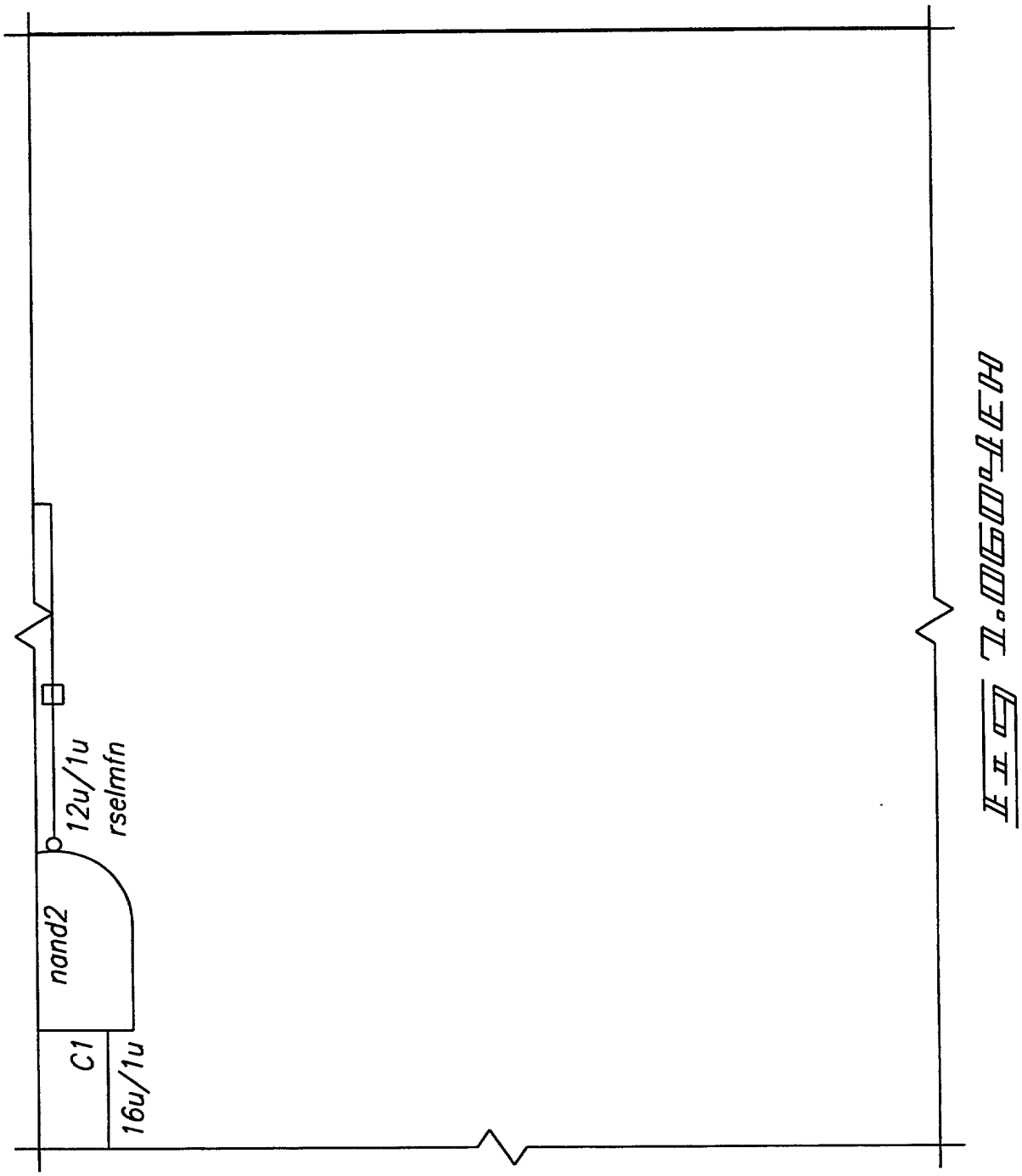
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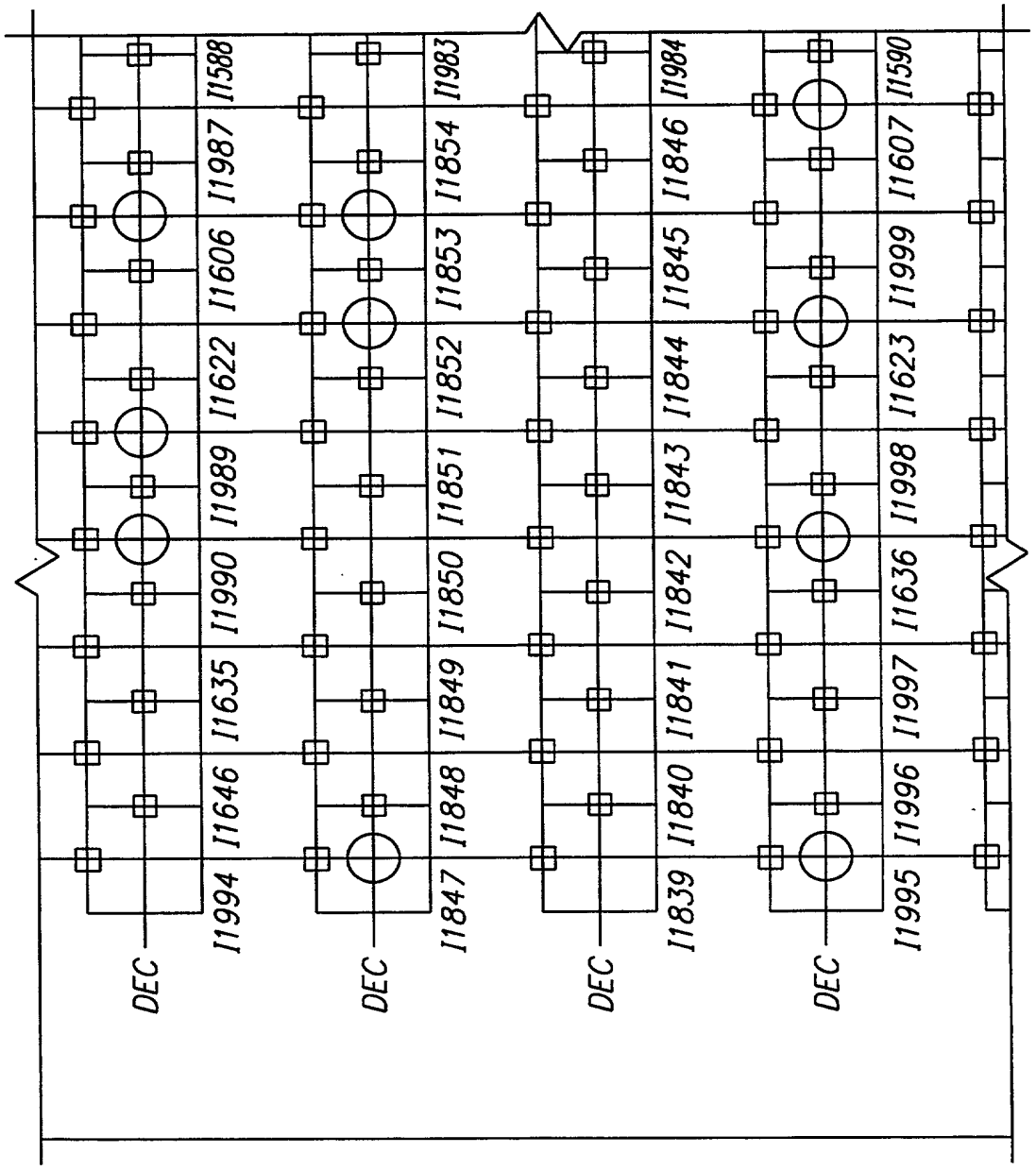
Patent Application Publication

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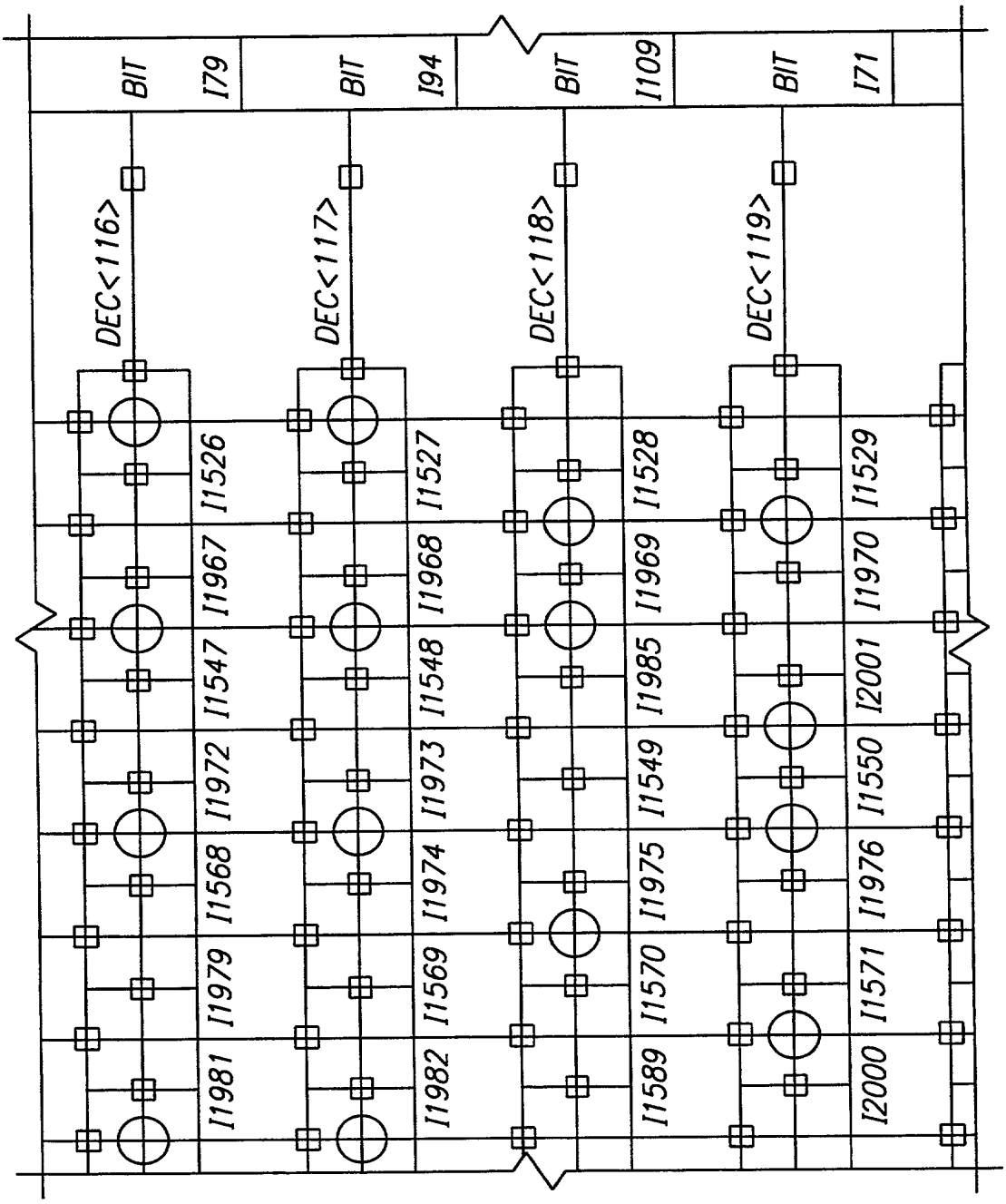


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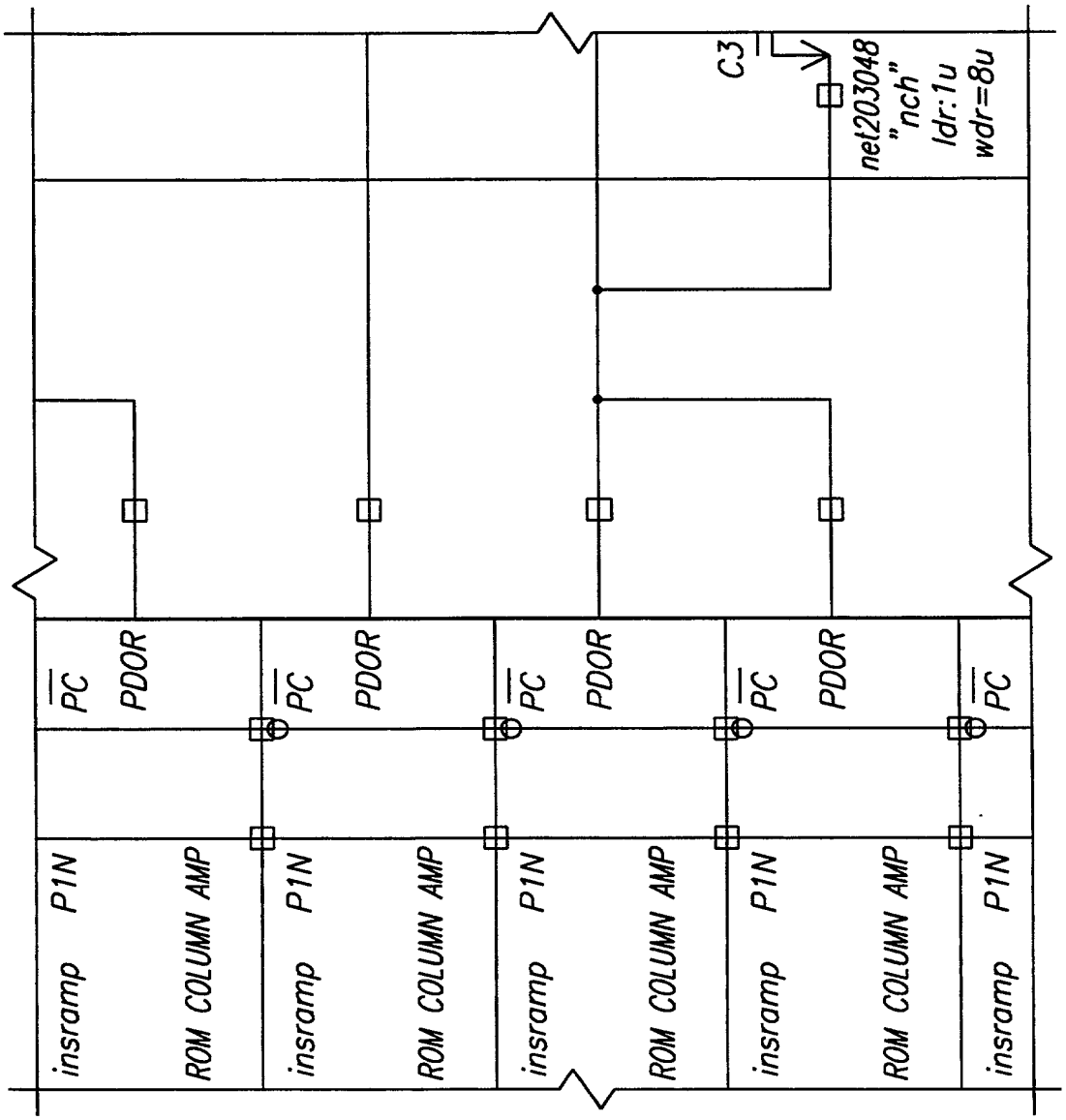

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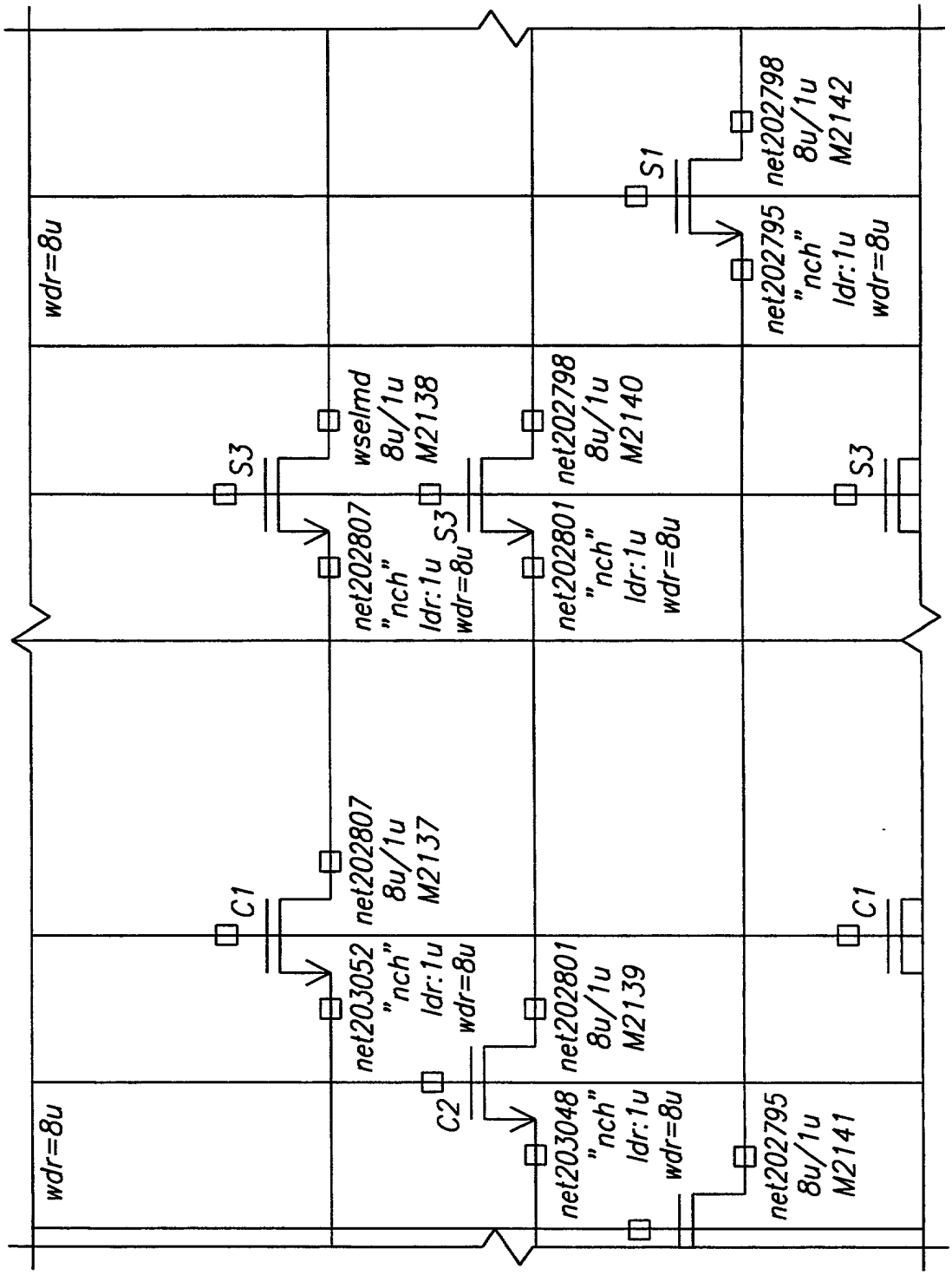
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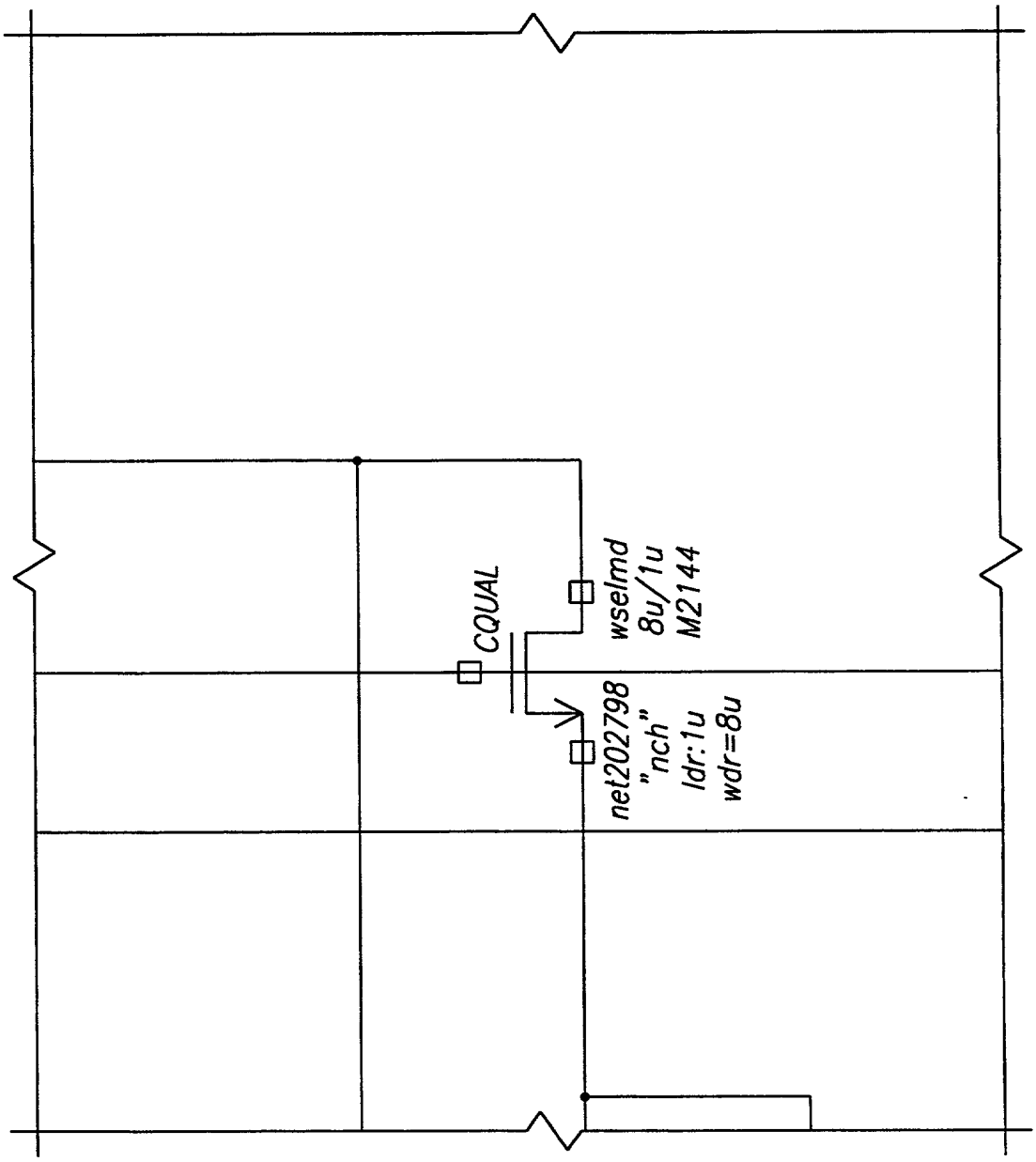


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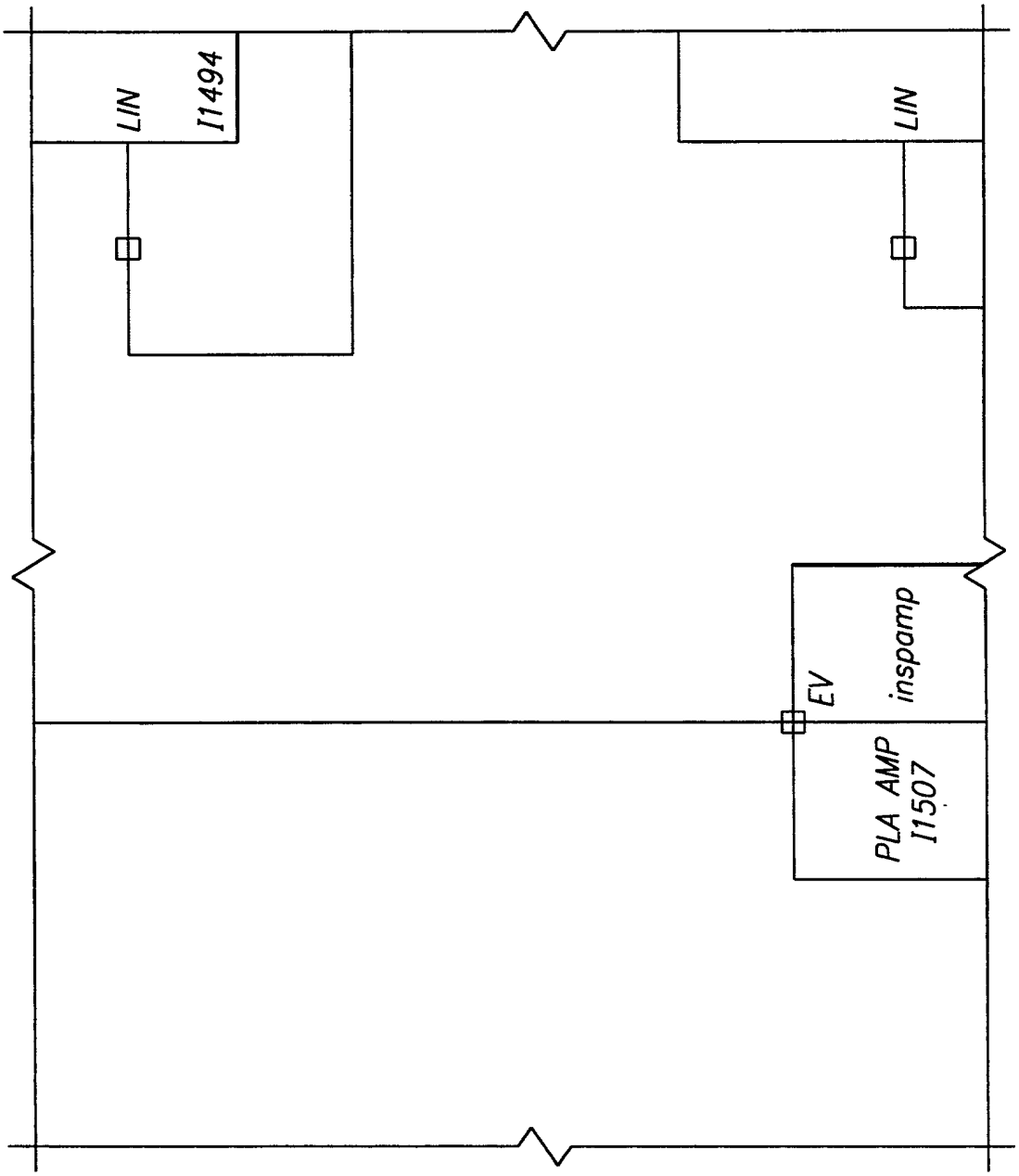


Fig 1.0504FF

Patent Application Publication

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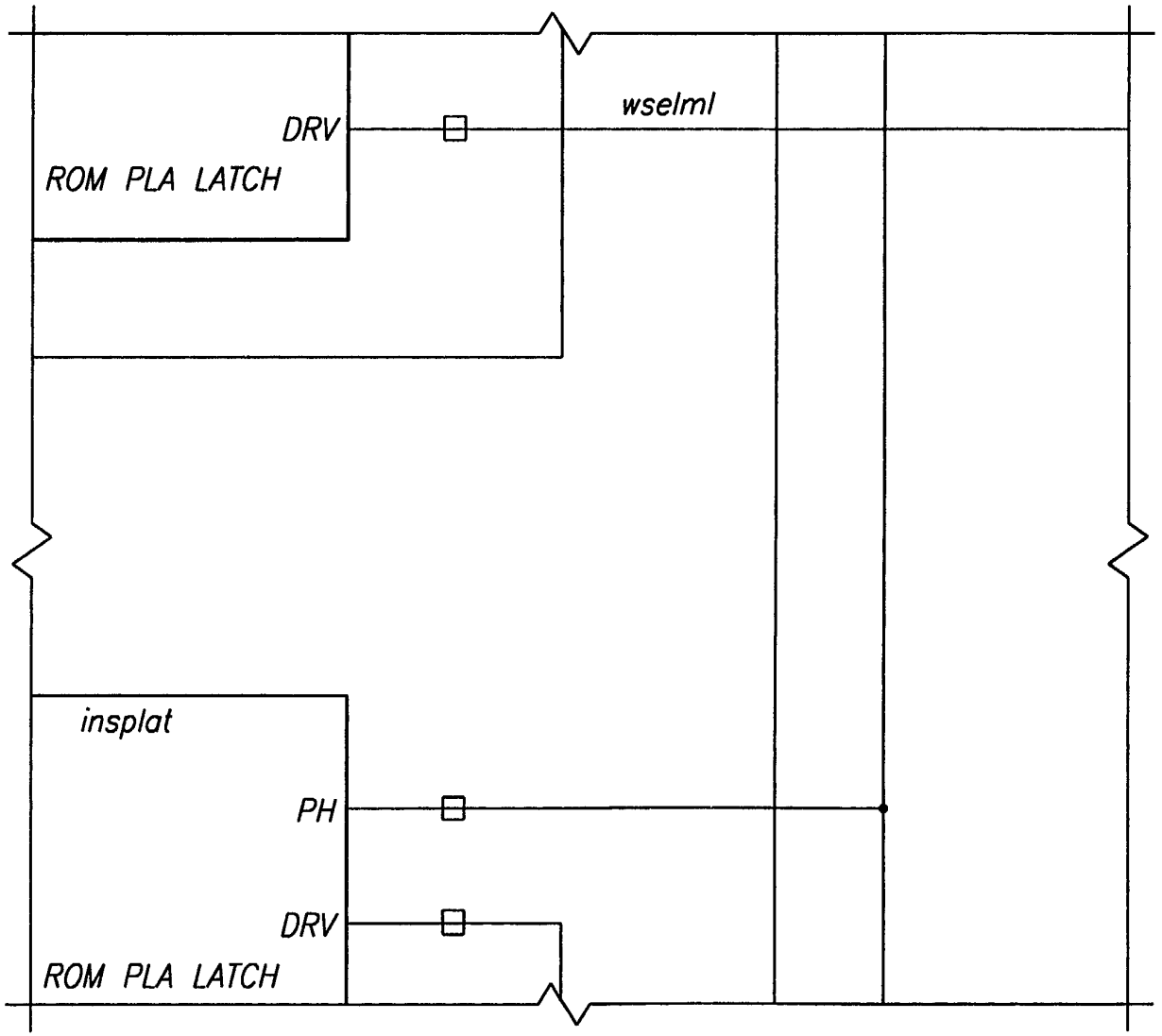
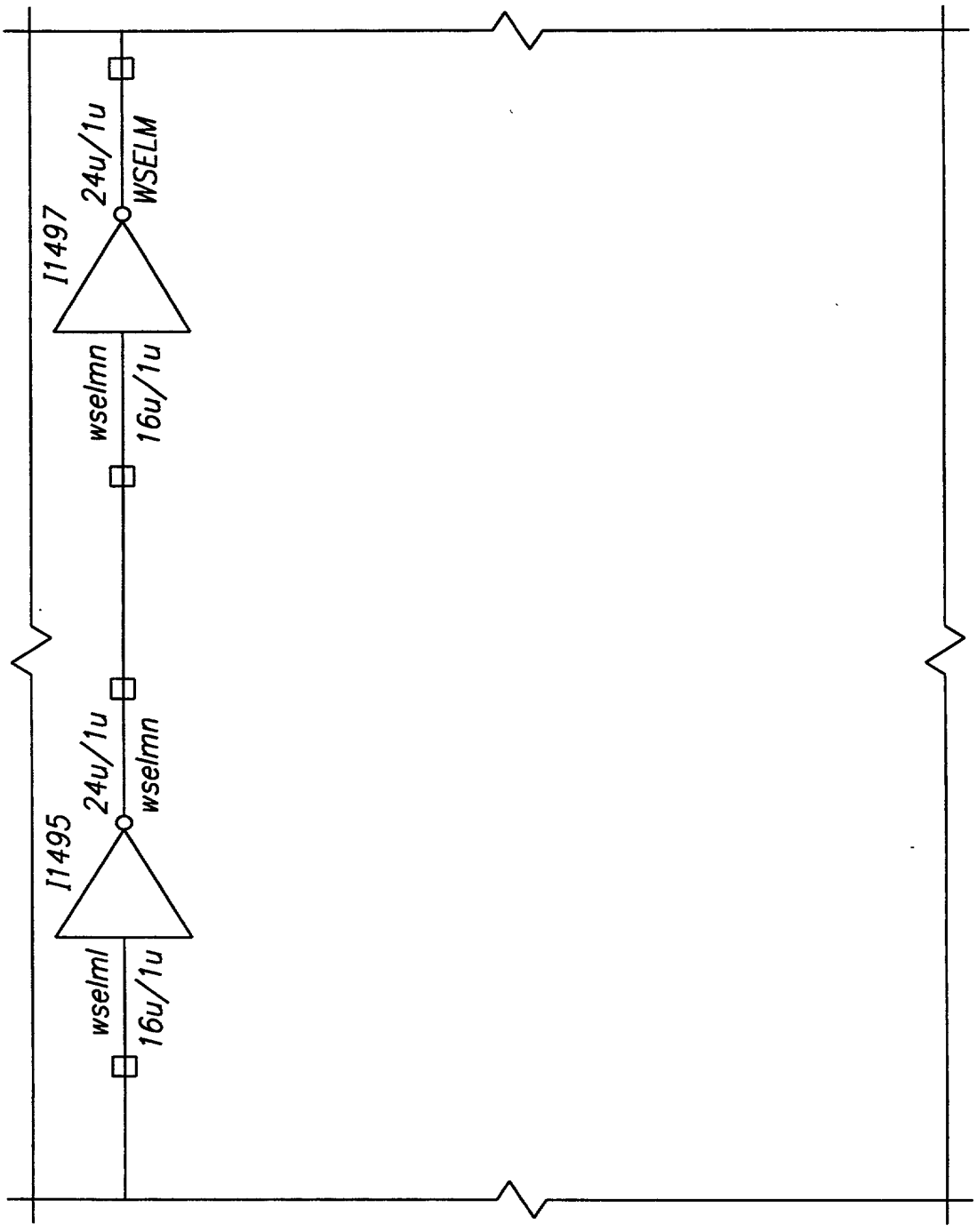


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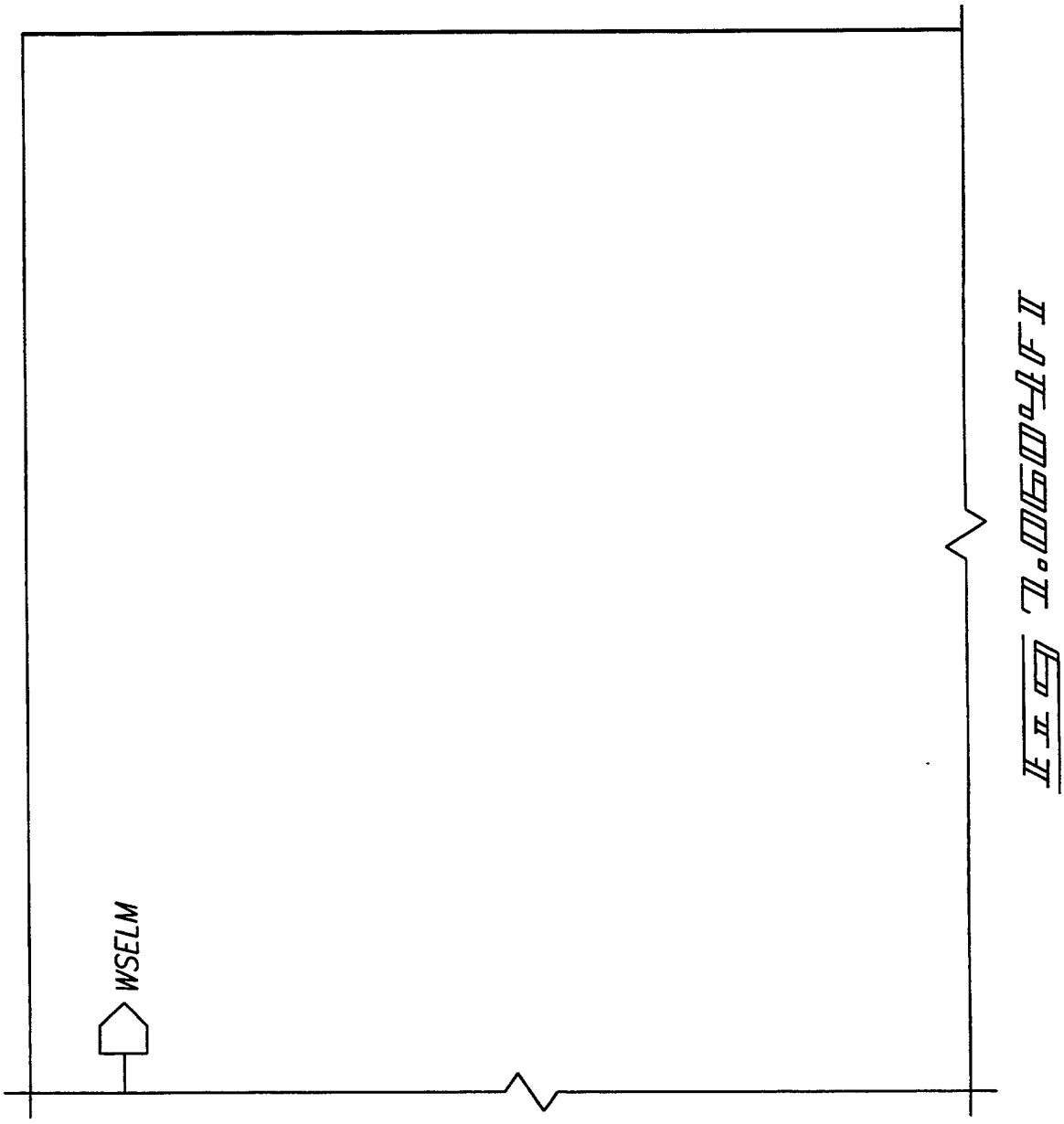
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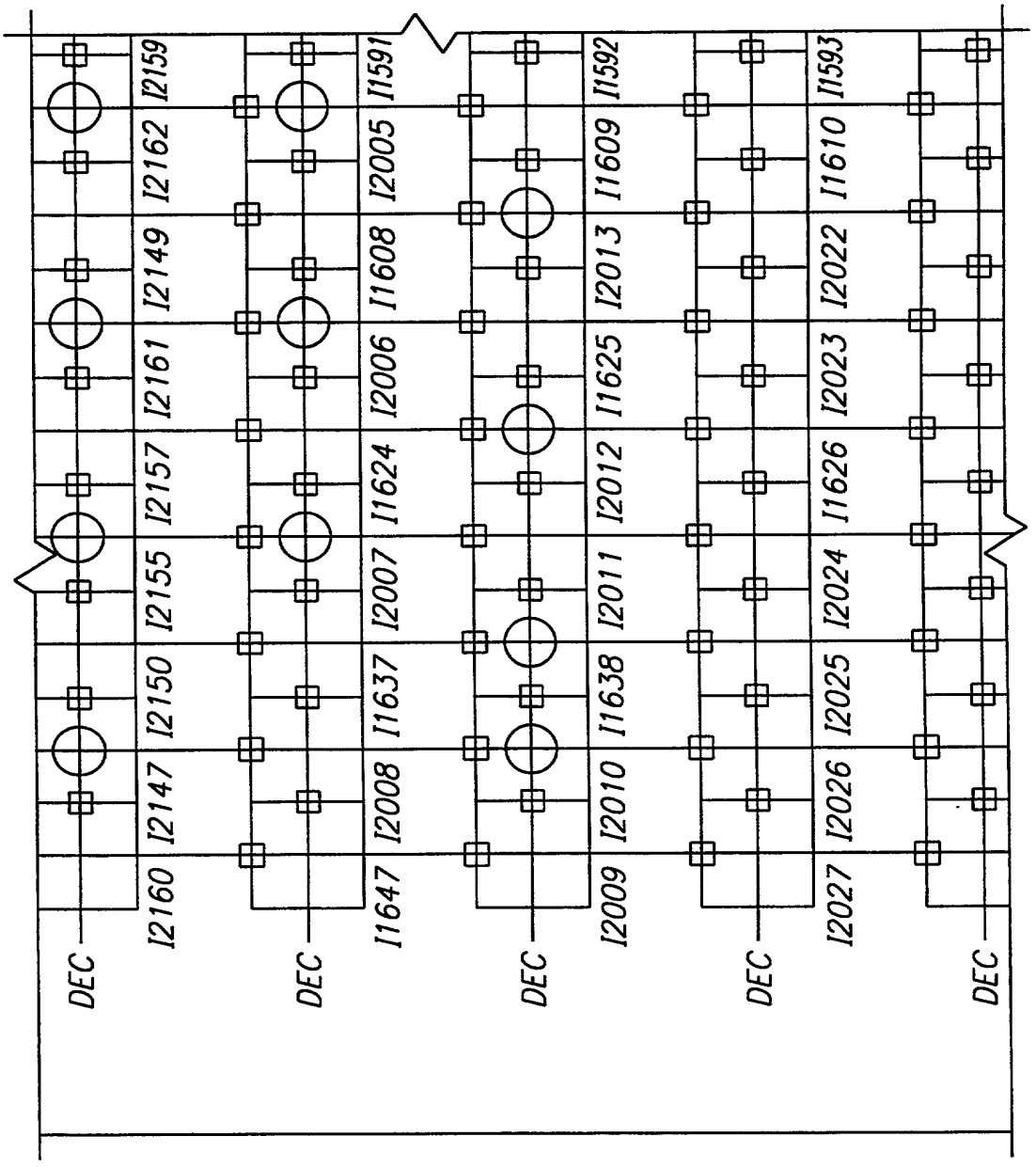
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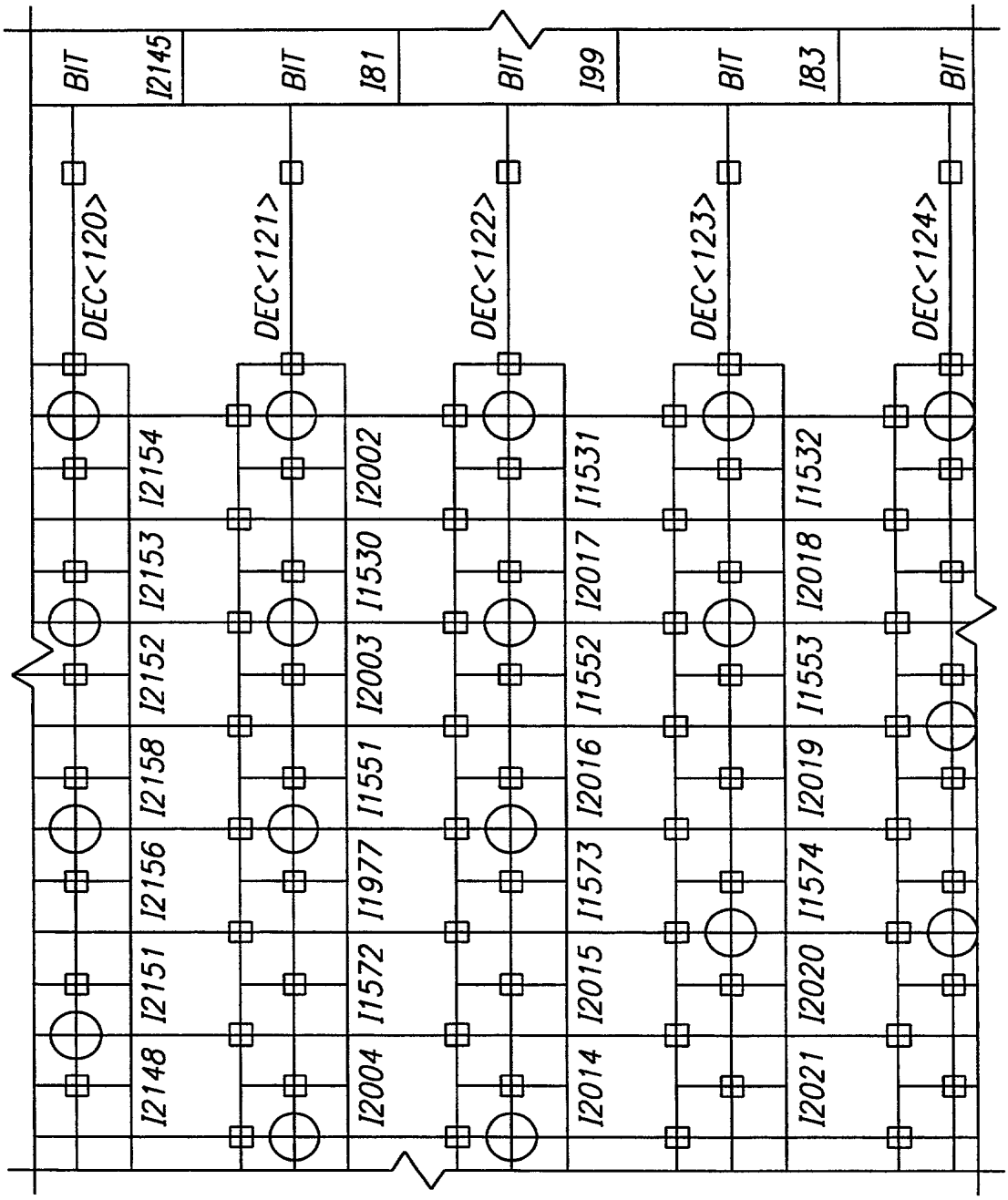


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Patent 2501268 (1)


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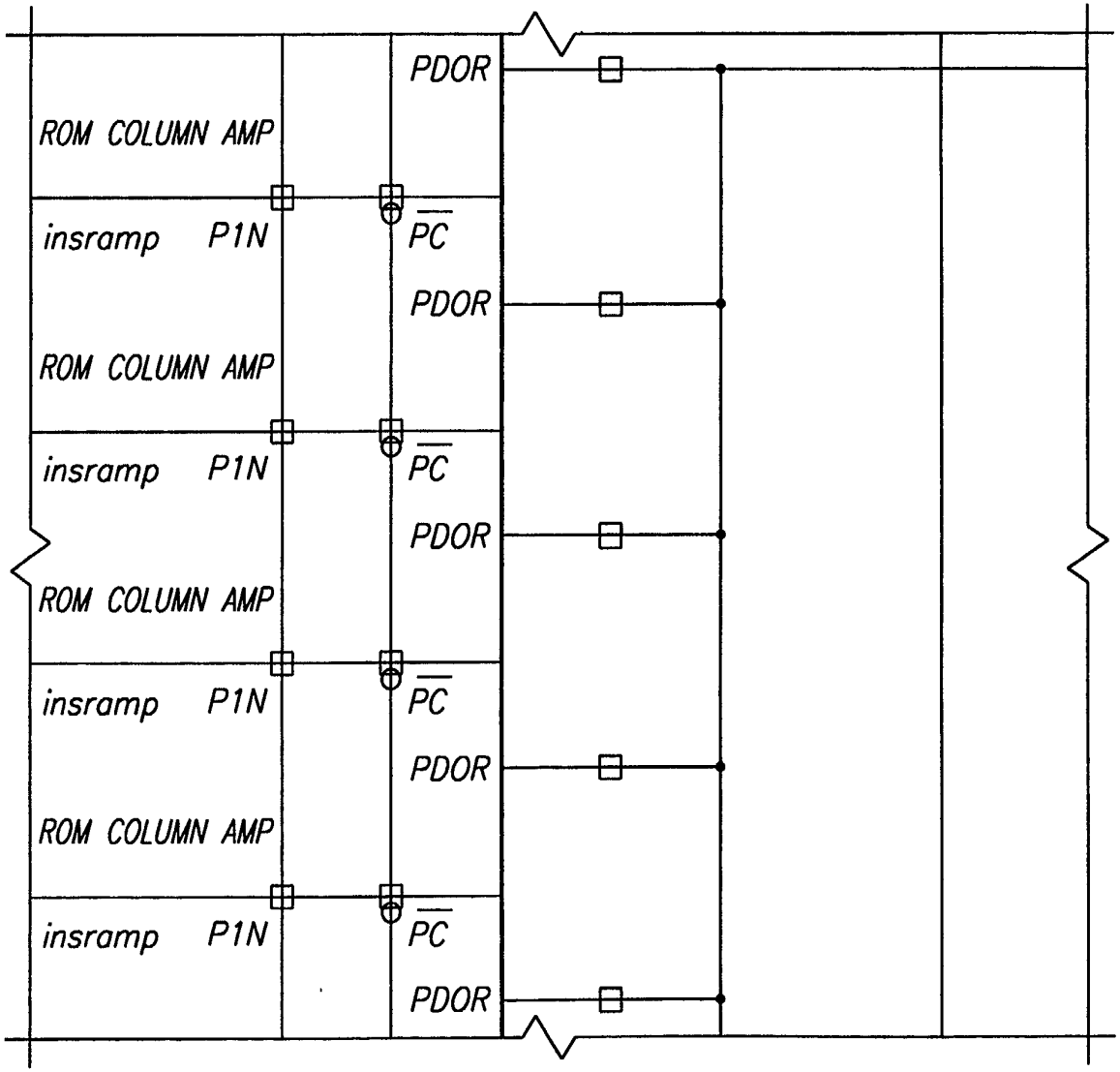
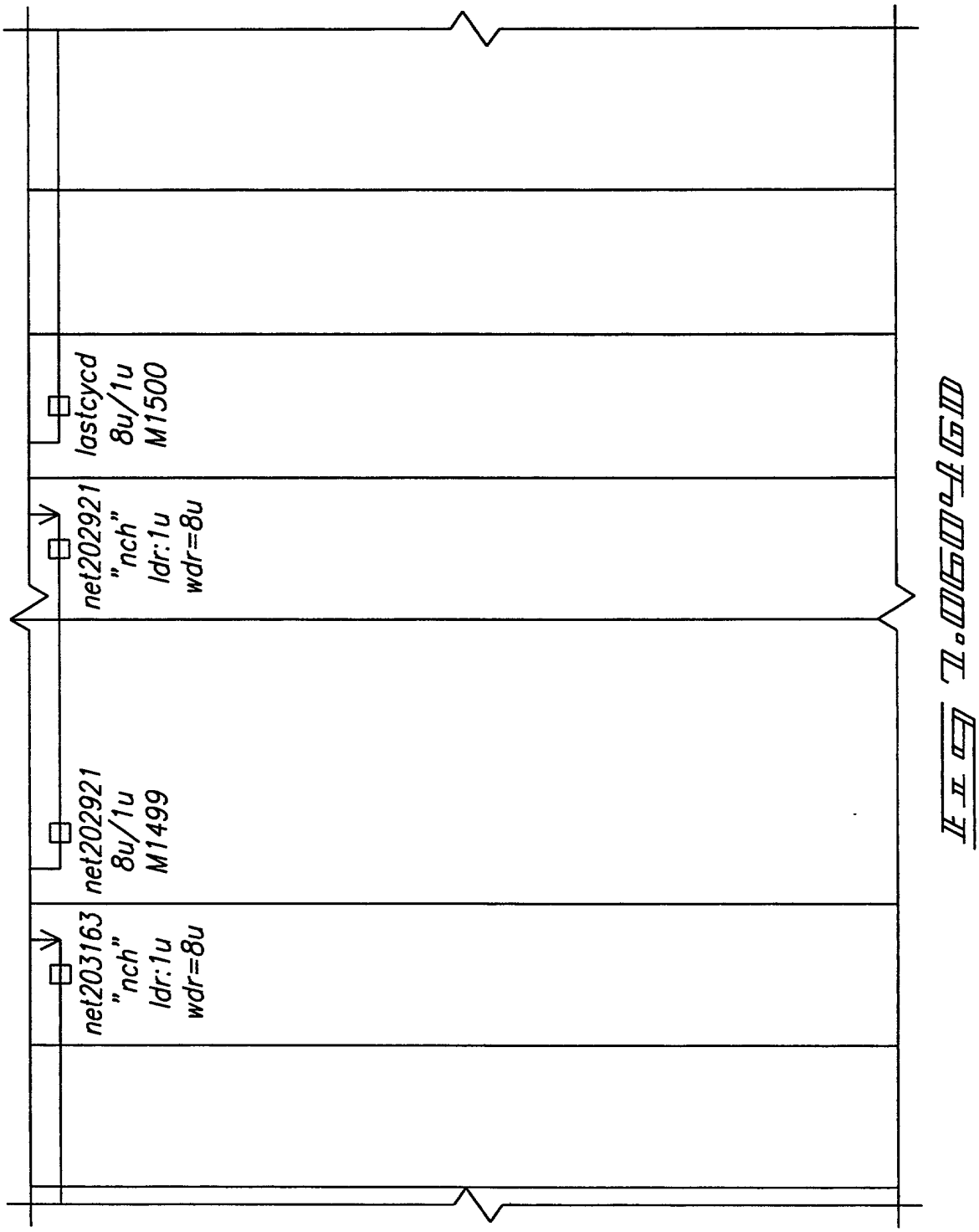


Fig 1.0604-46C



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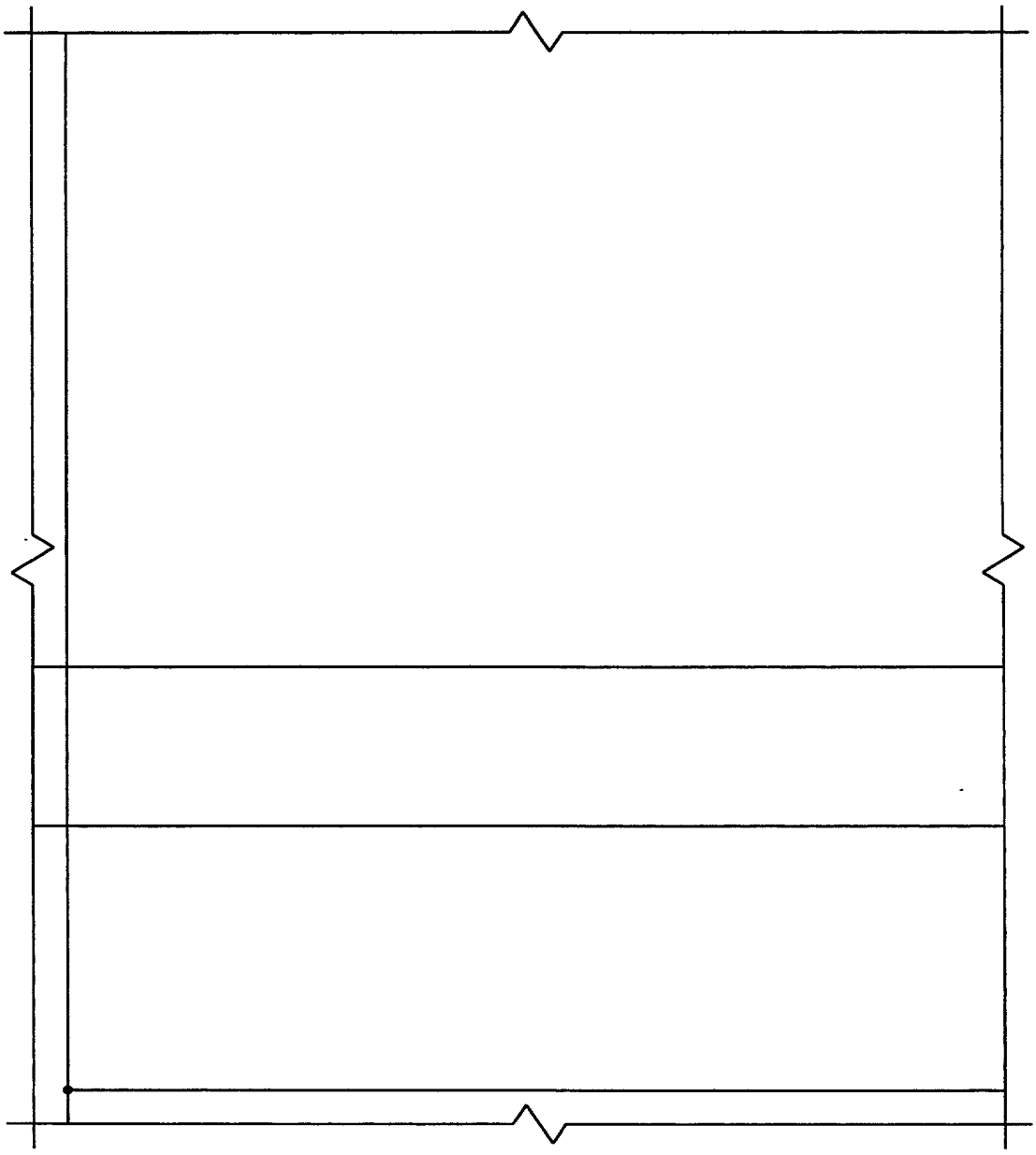


Exhibit 1.0050-4397

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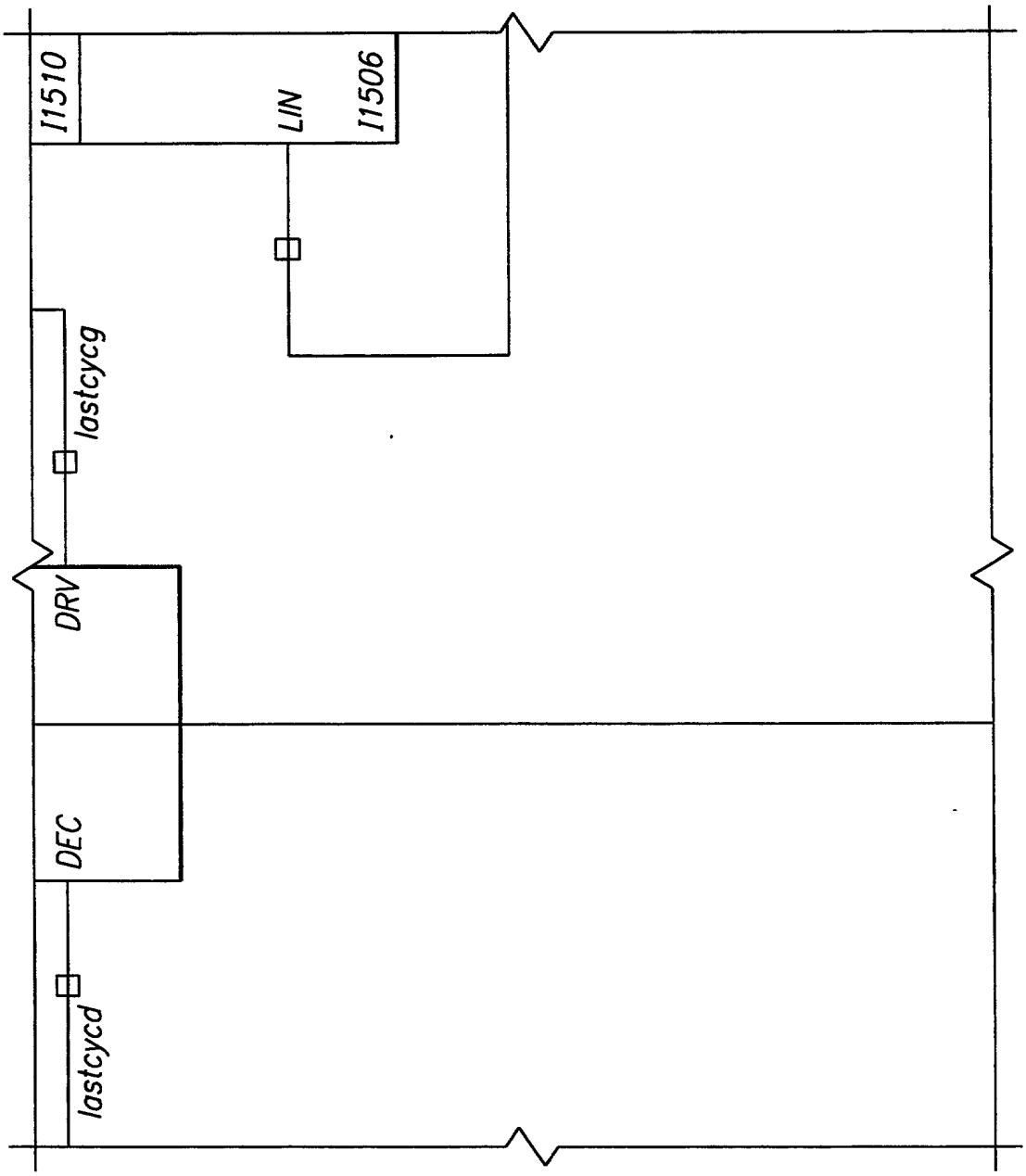


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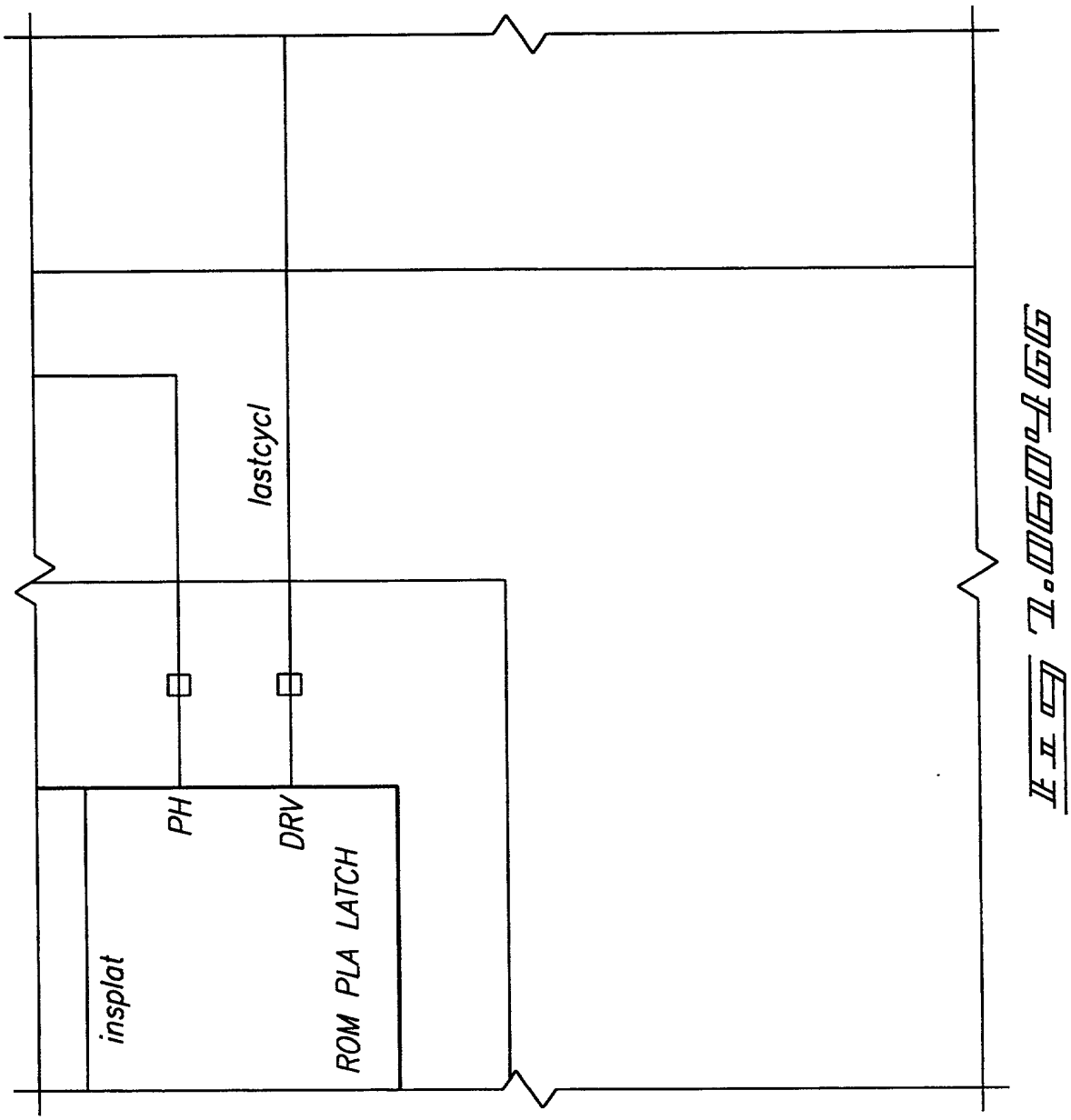
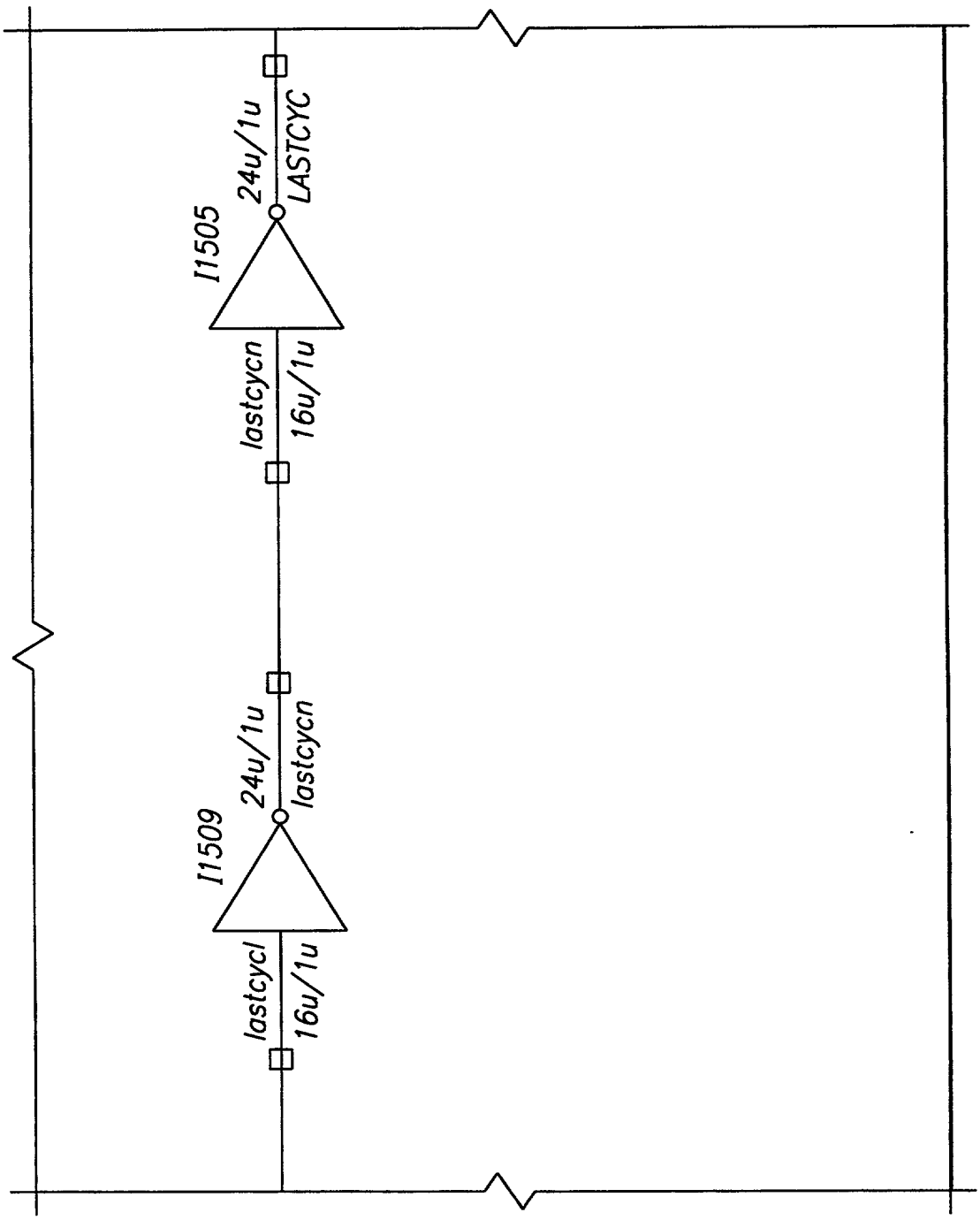


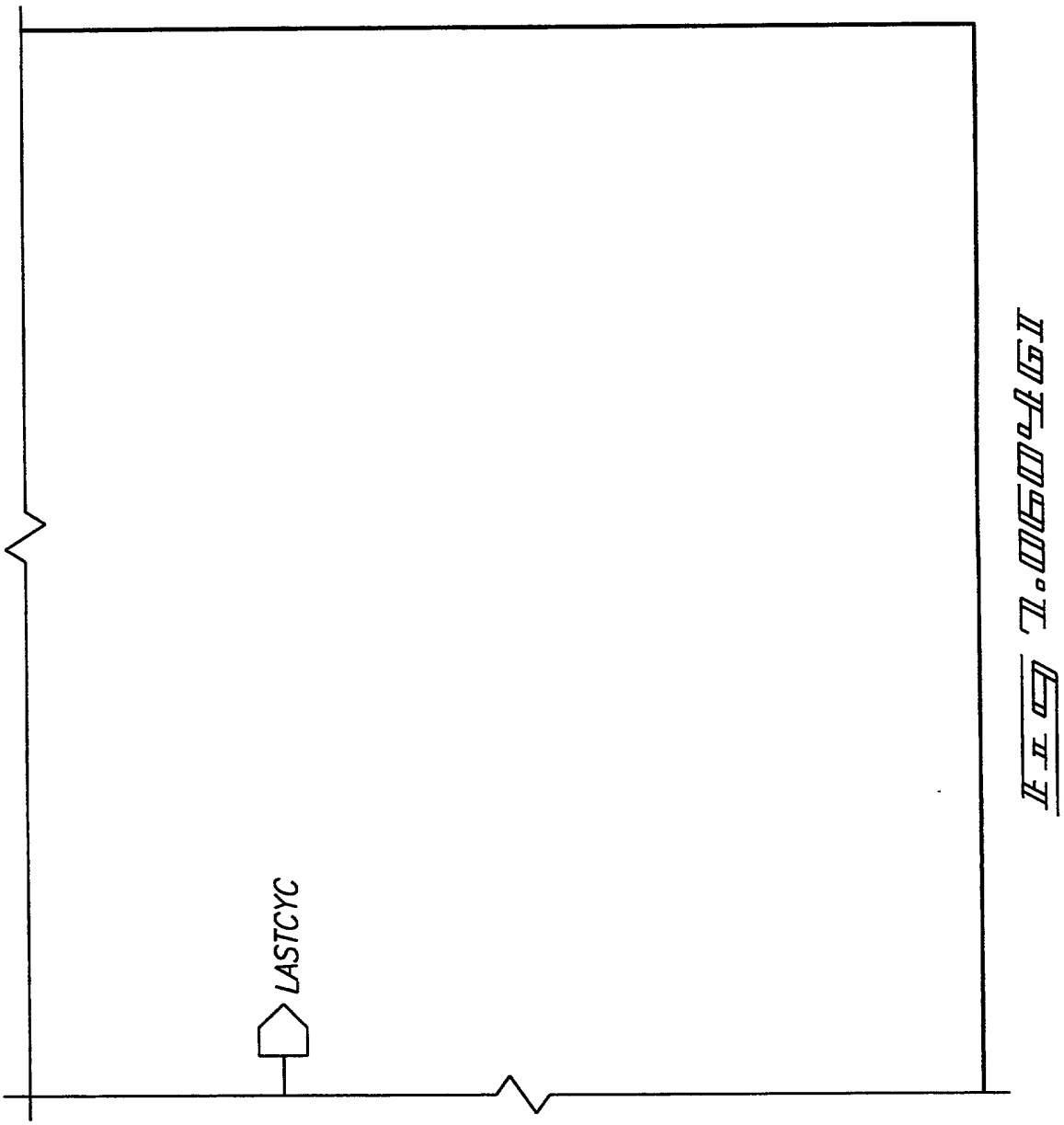
FIG 7,059,045

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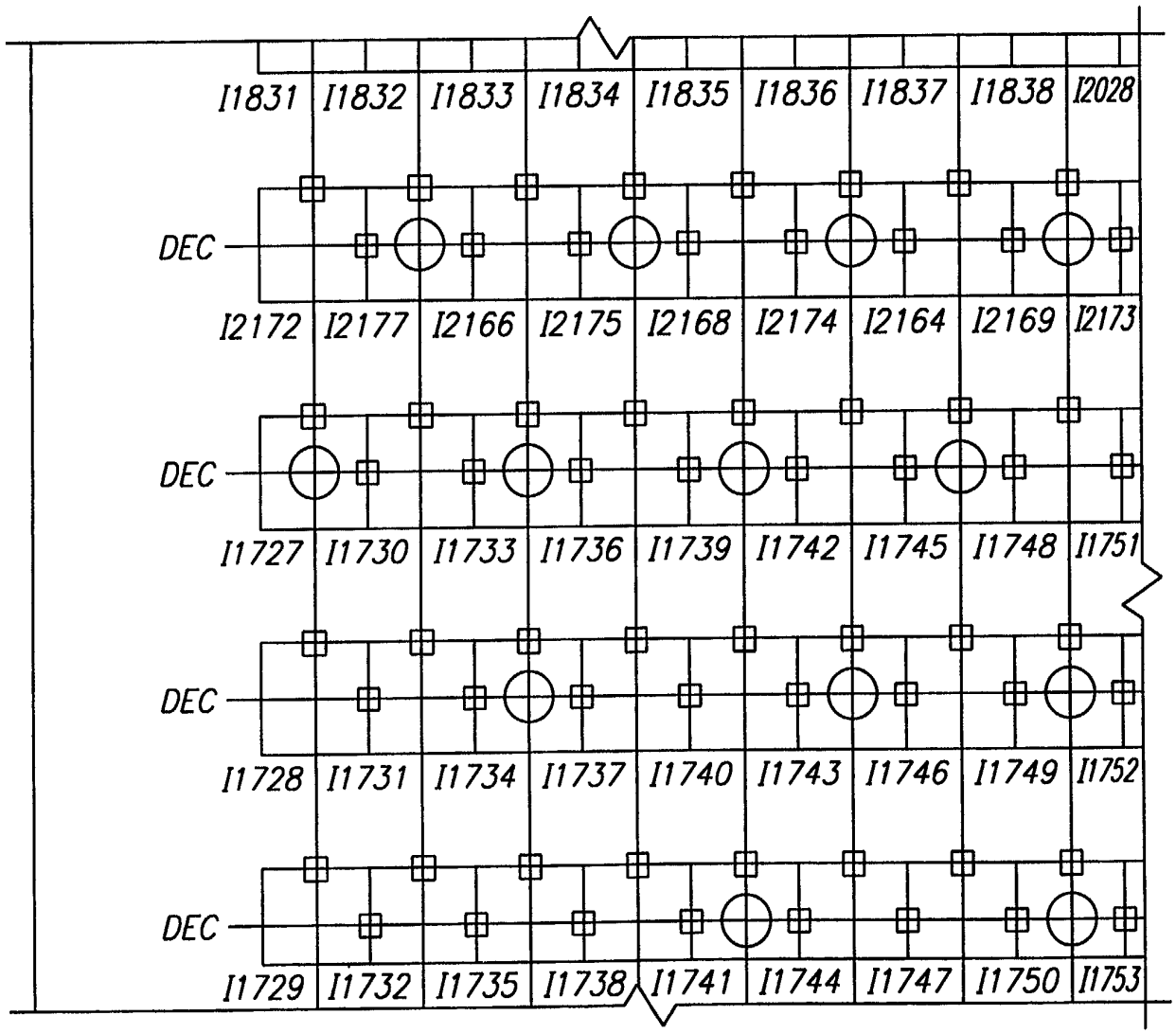
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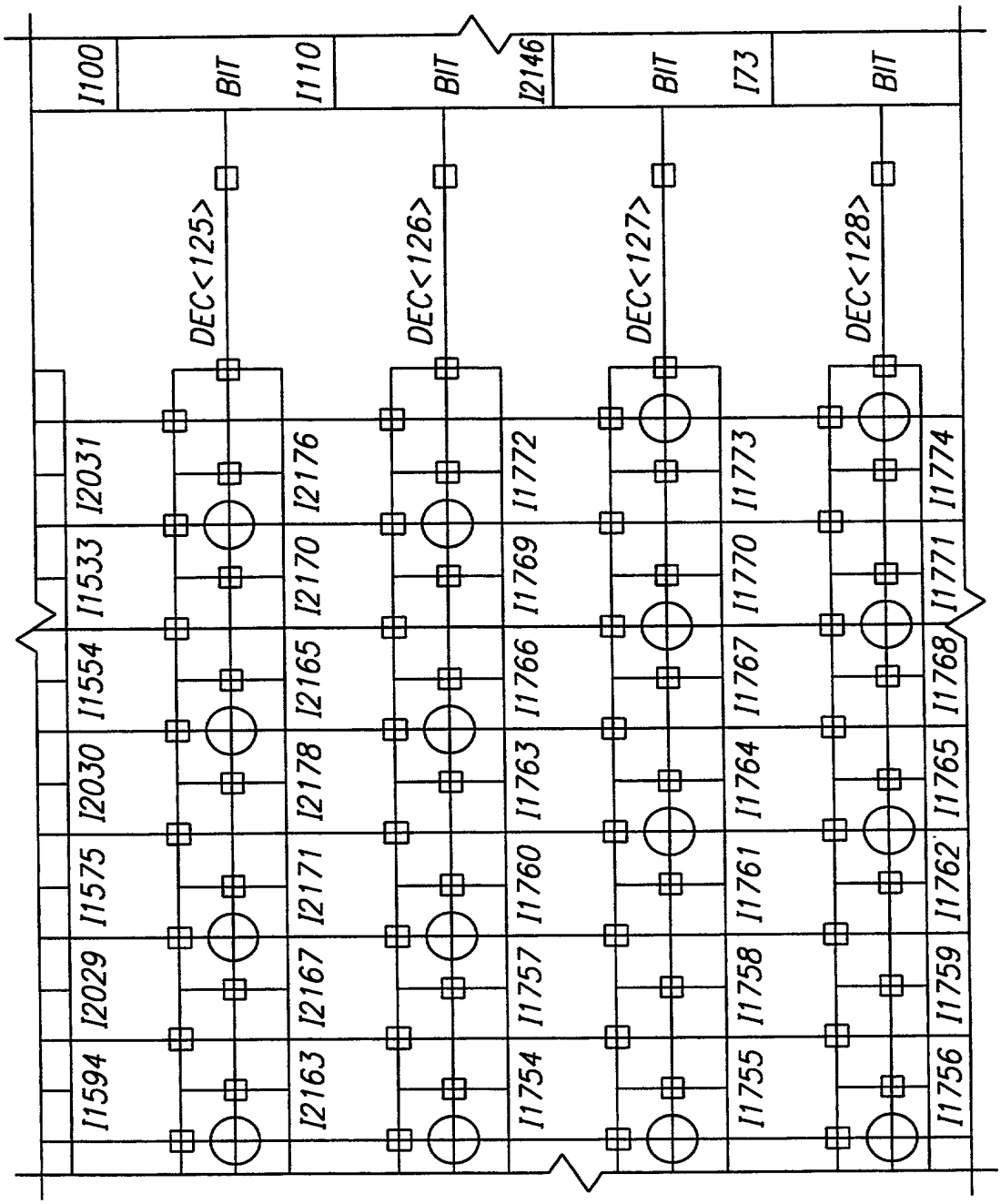


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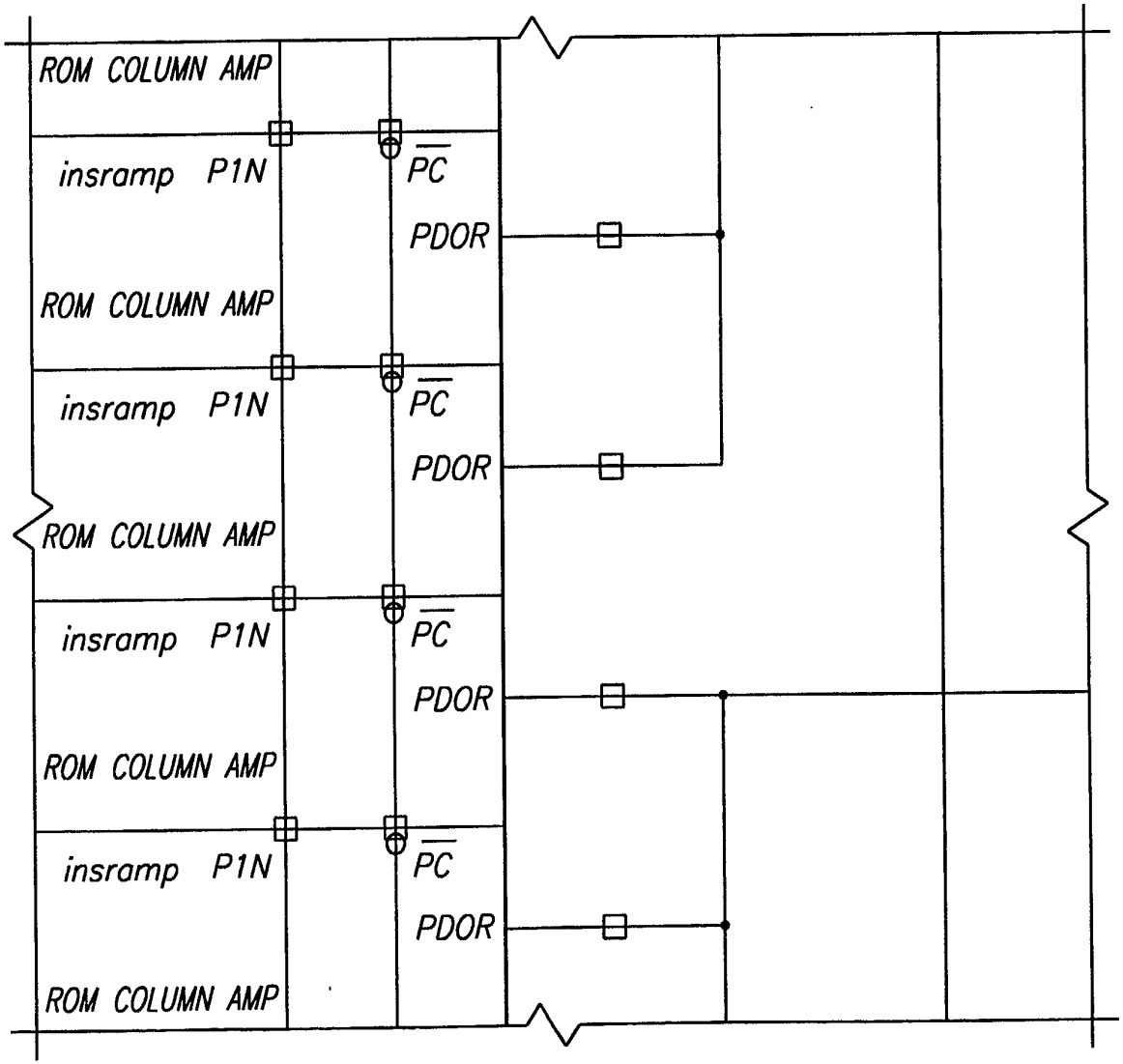

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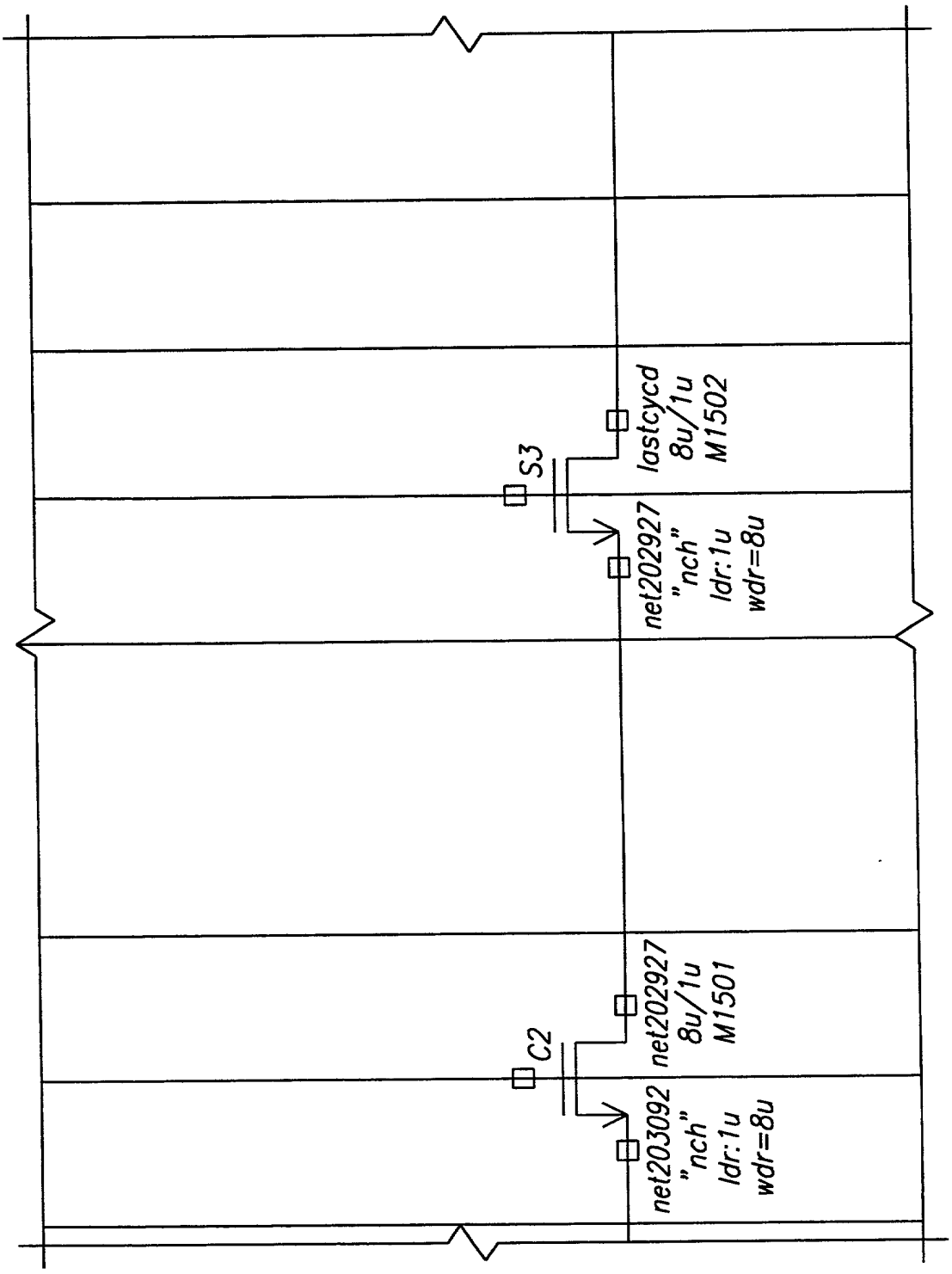
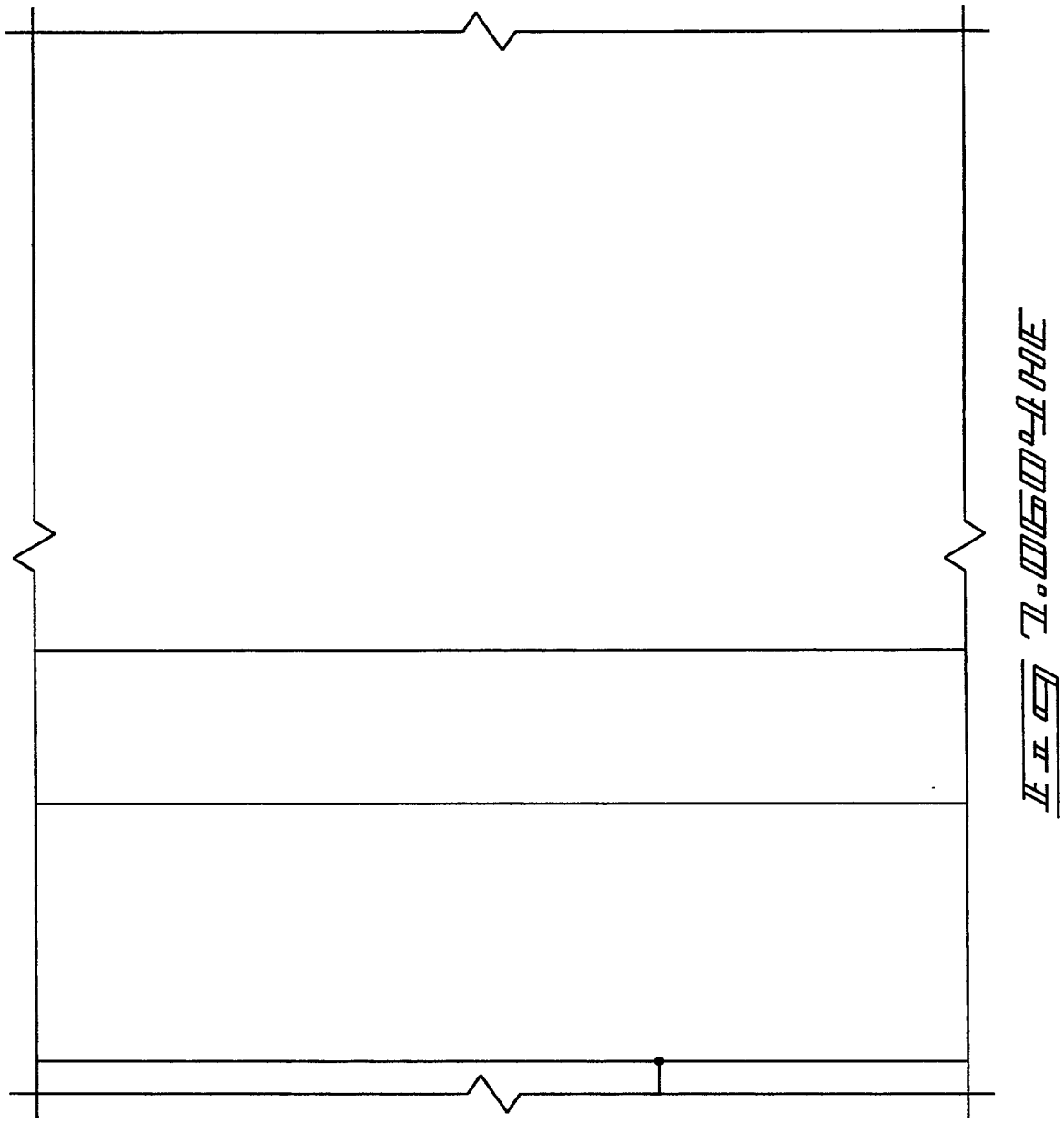


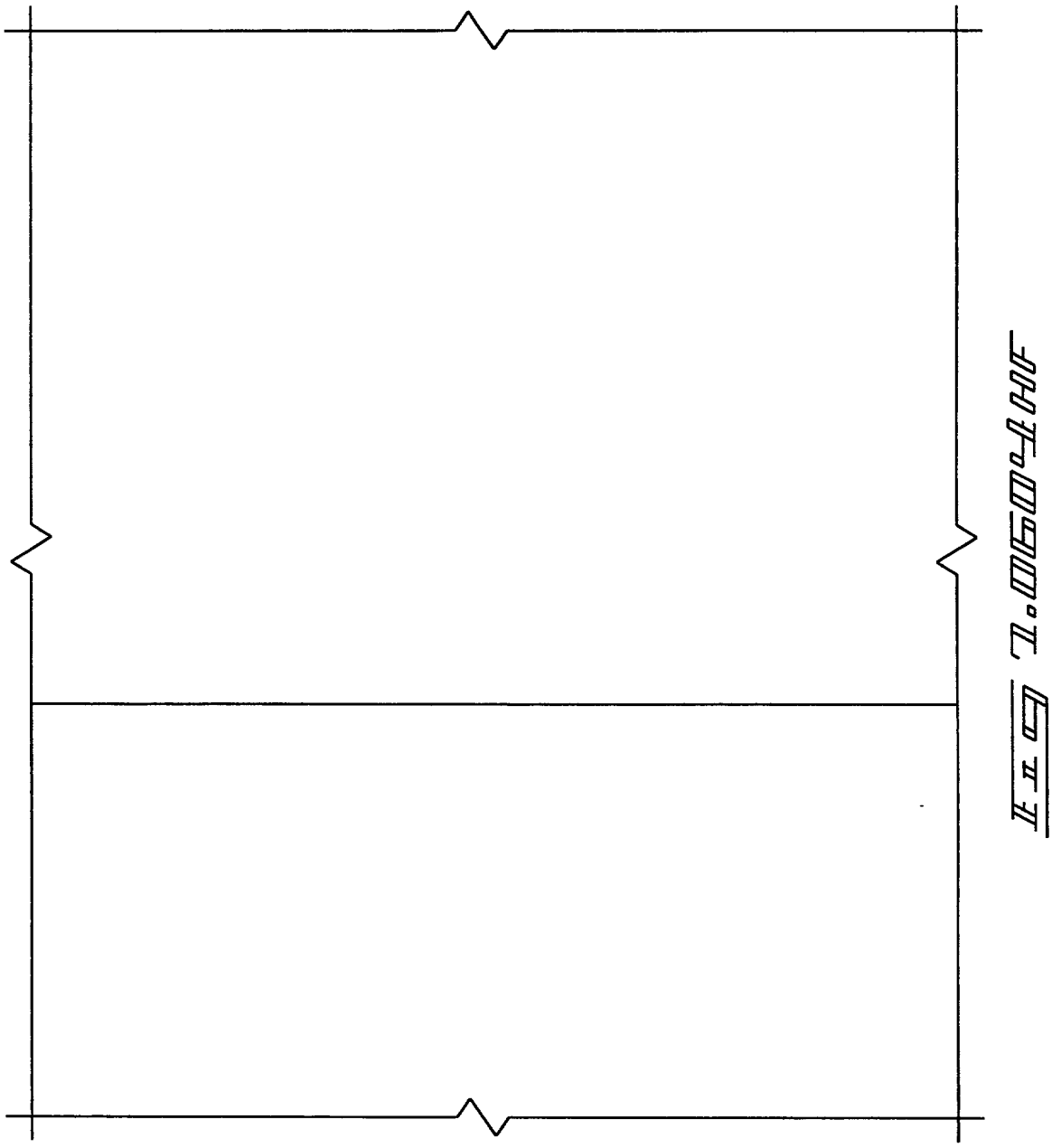
FIG. 15

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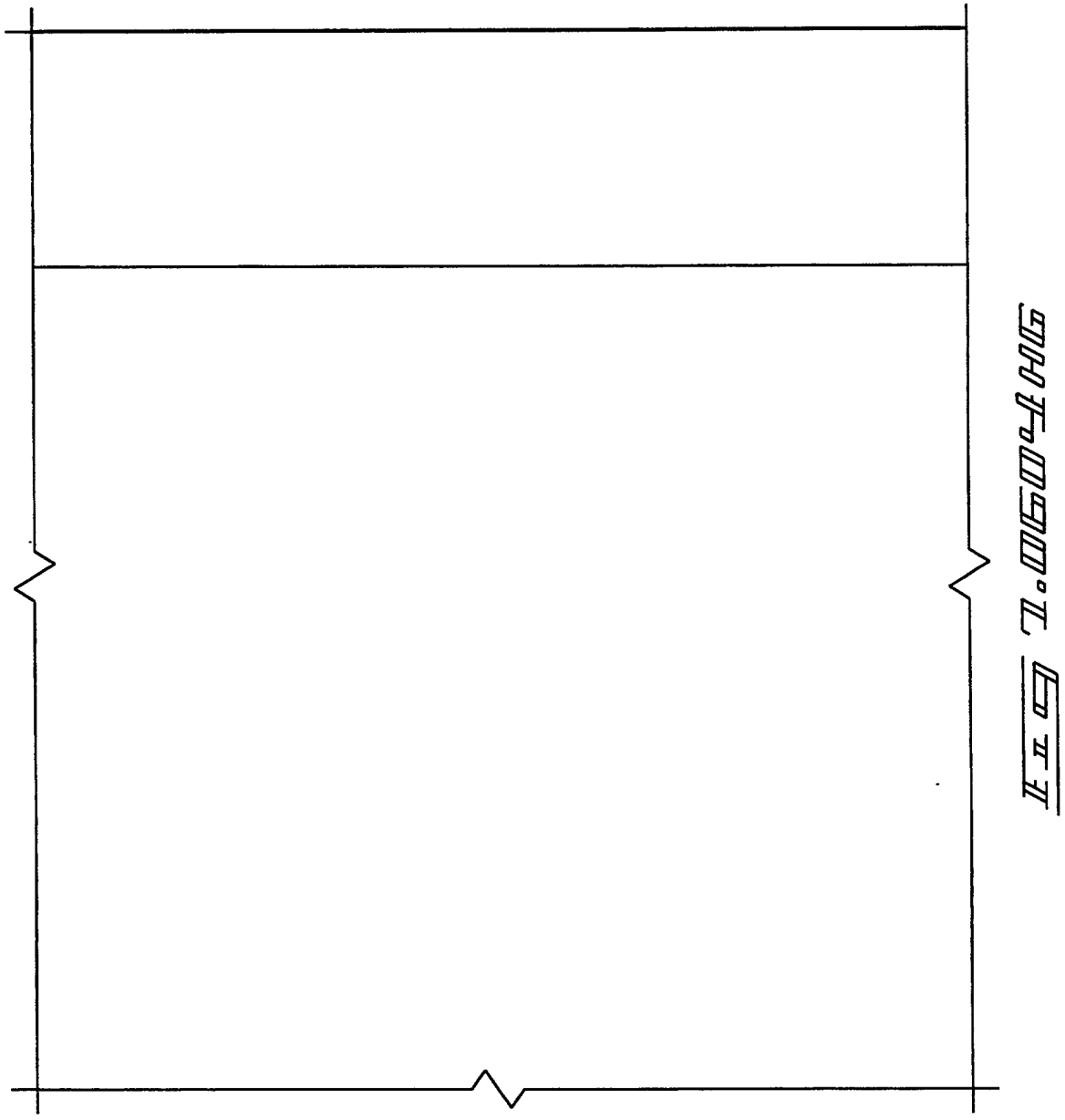
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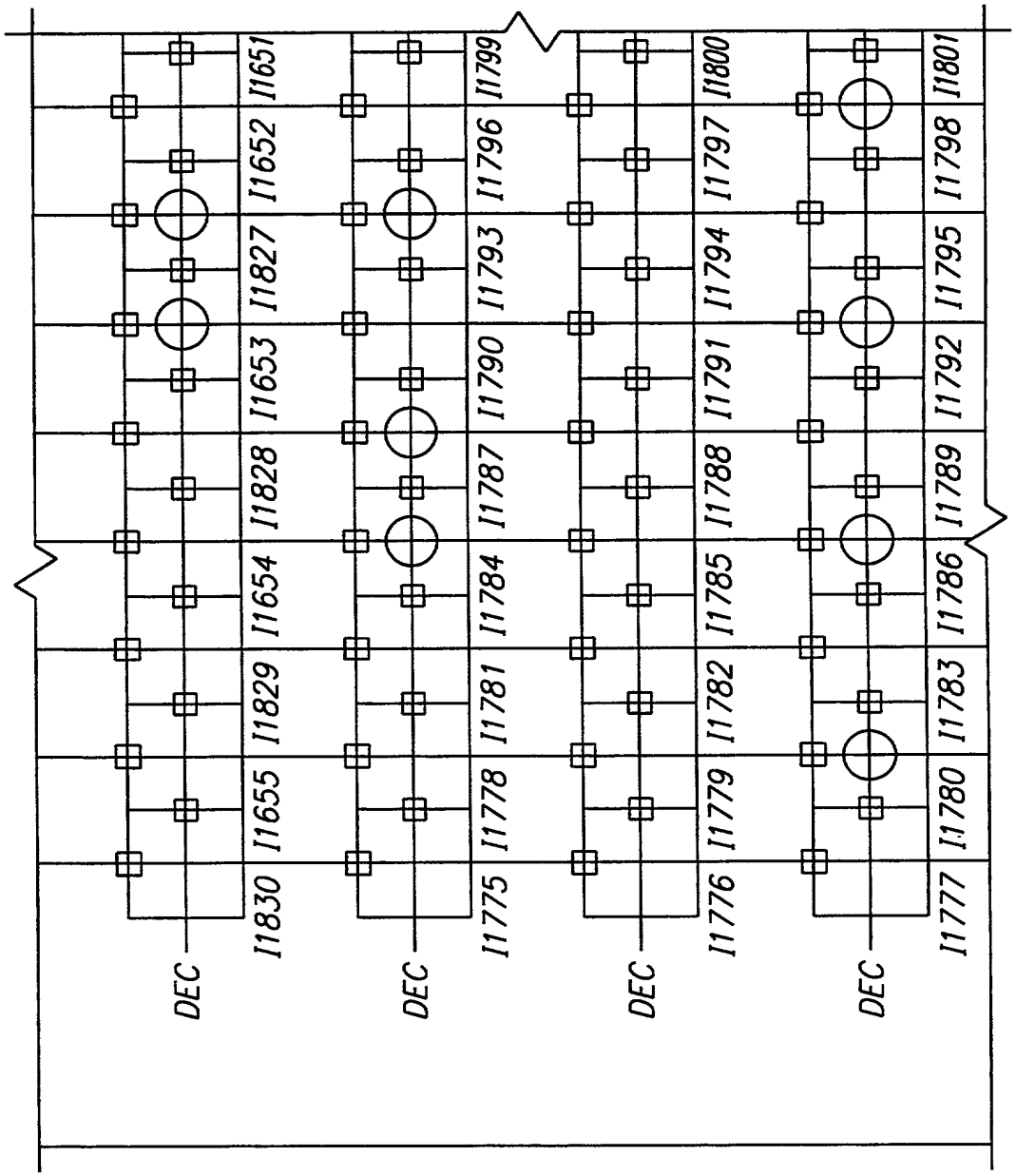
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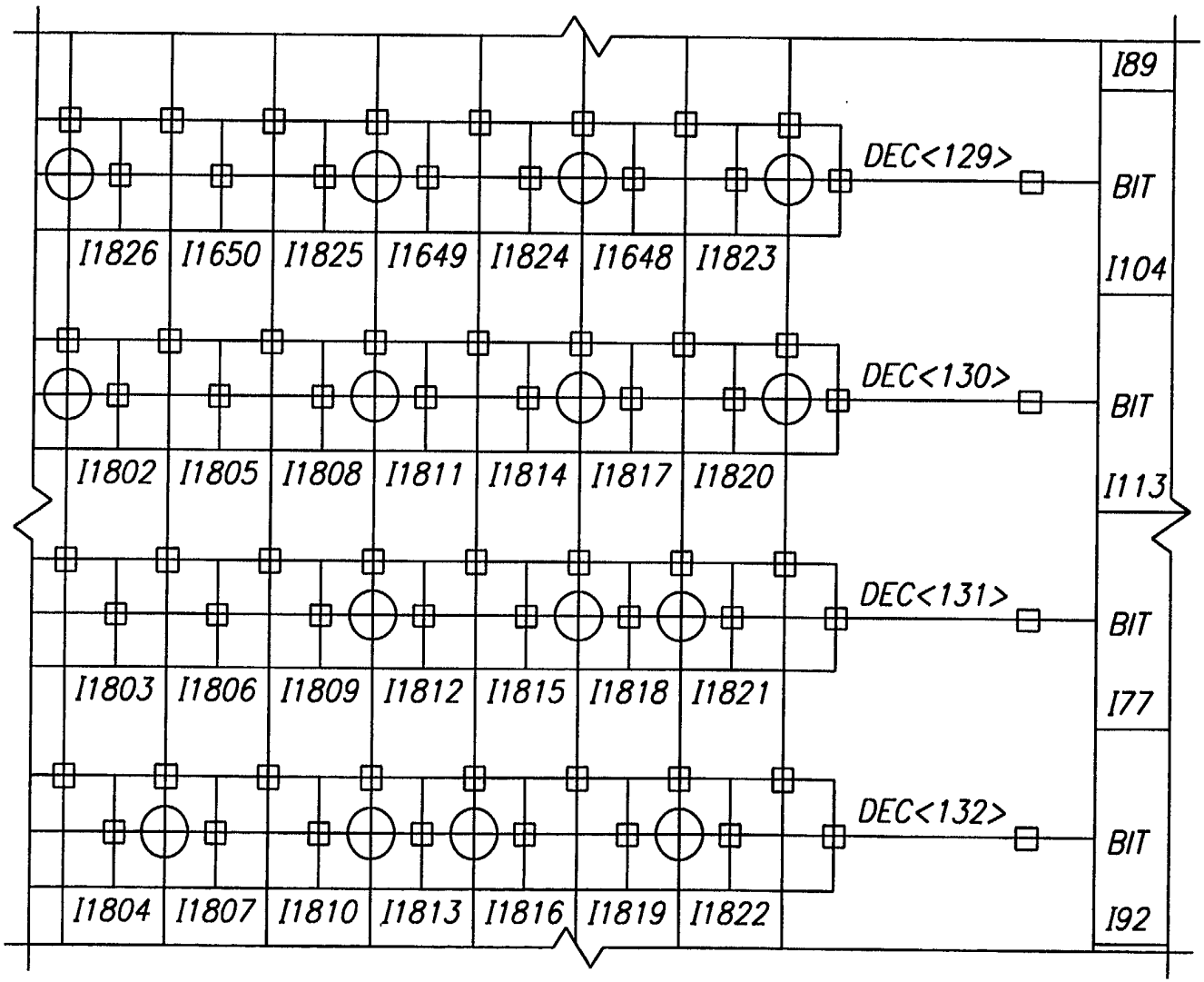


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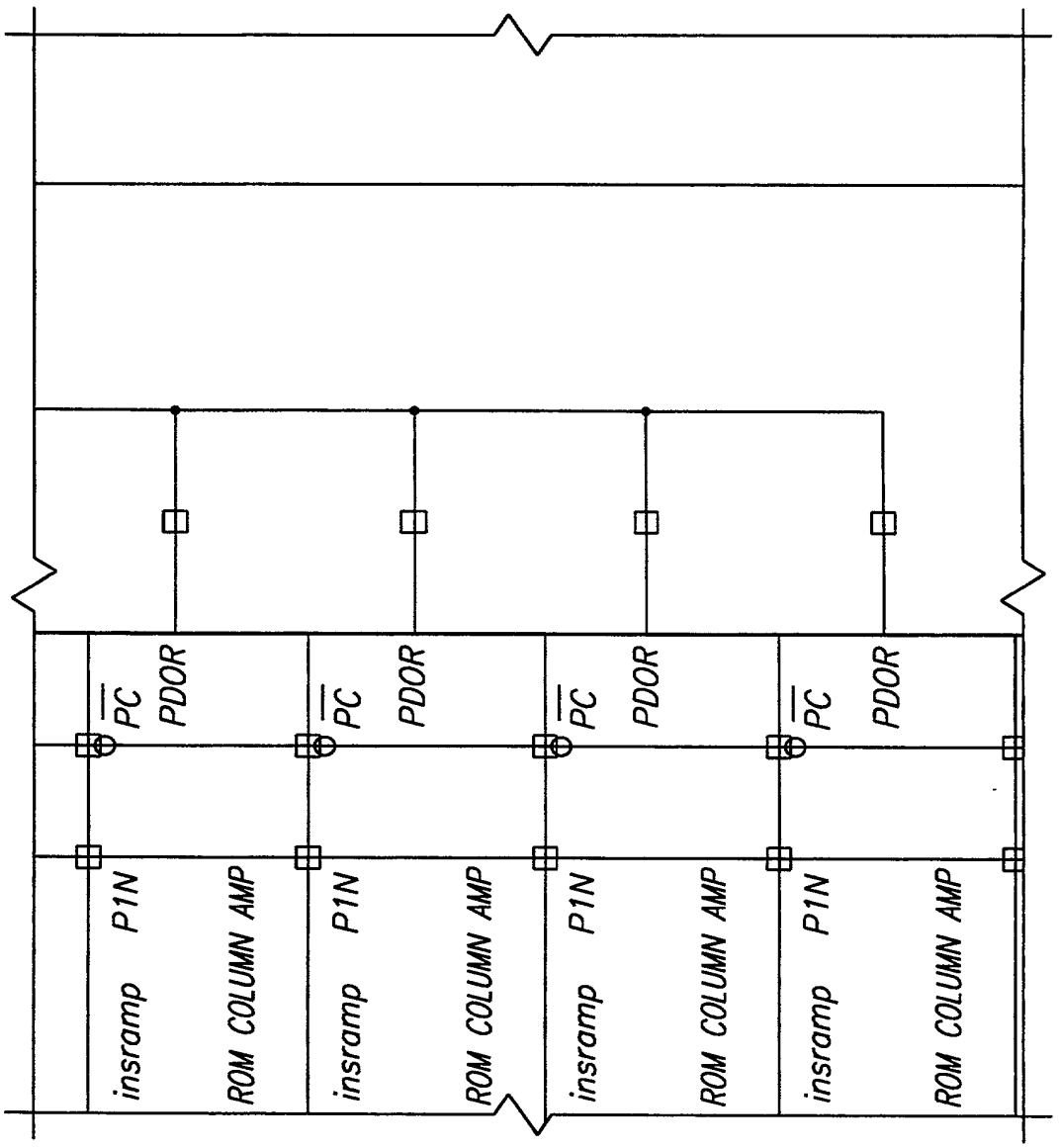


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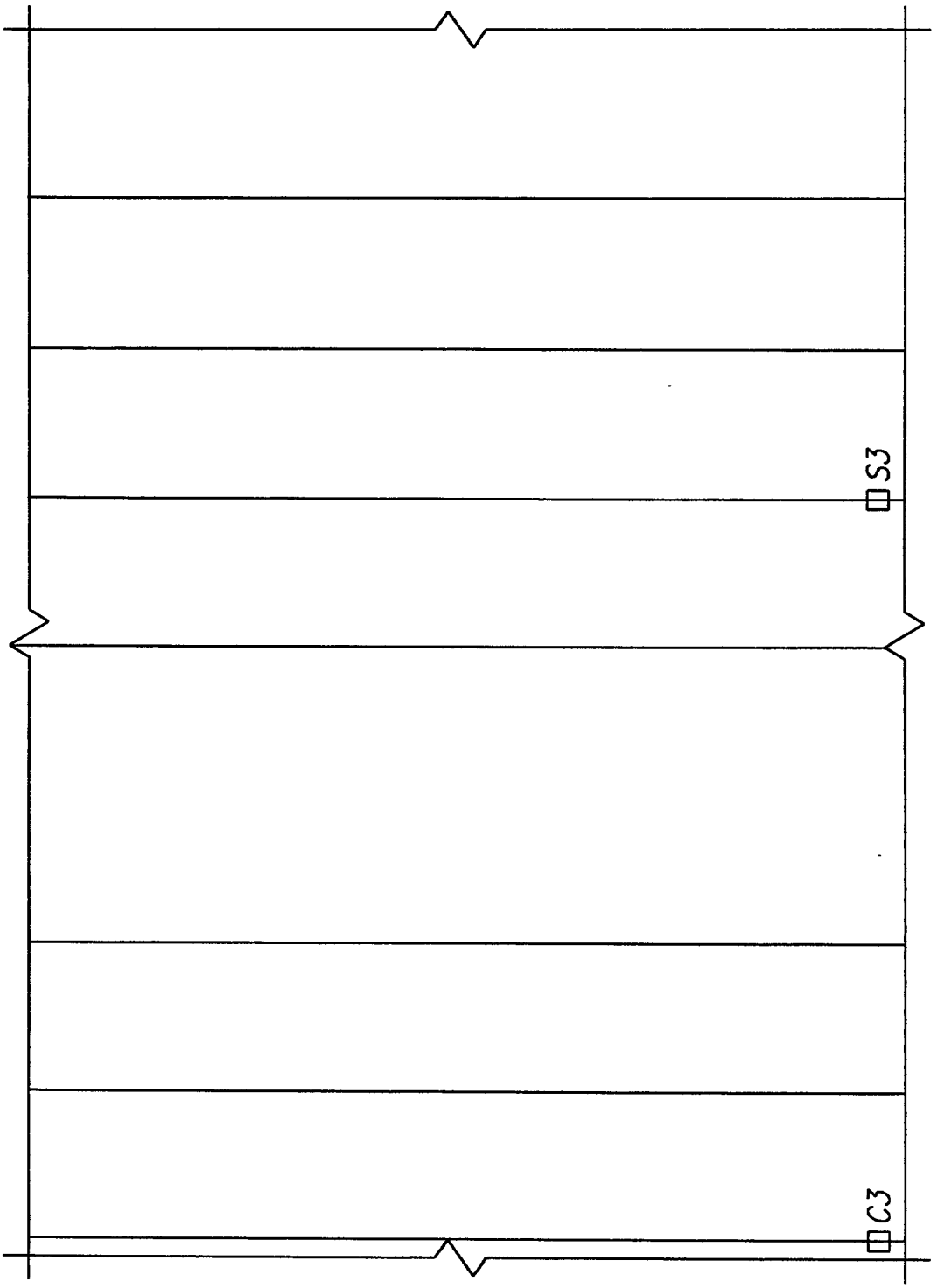

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I104
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I77
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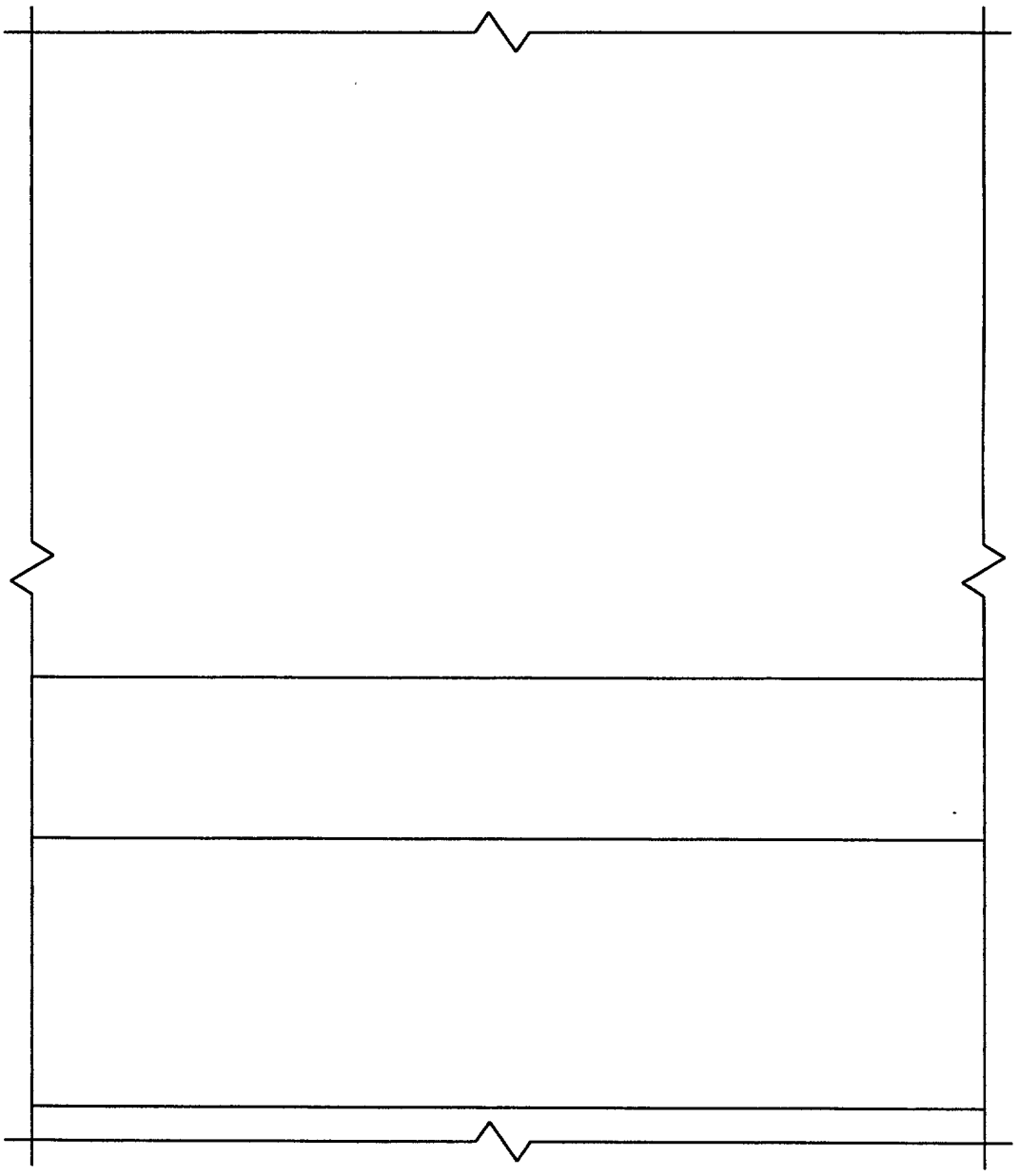
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Дата 1.06.00

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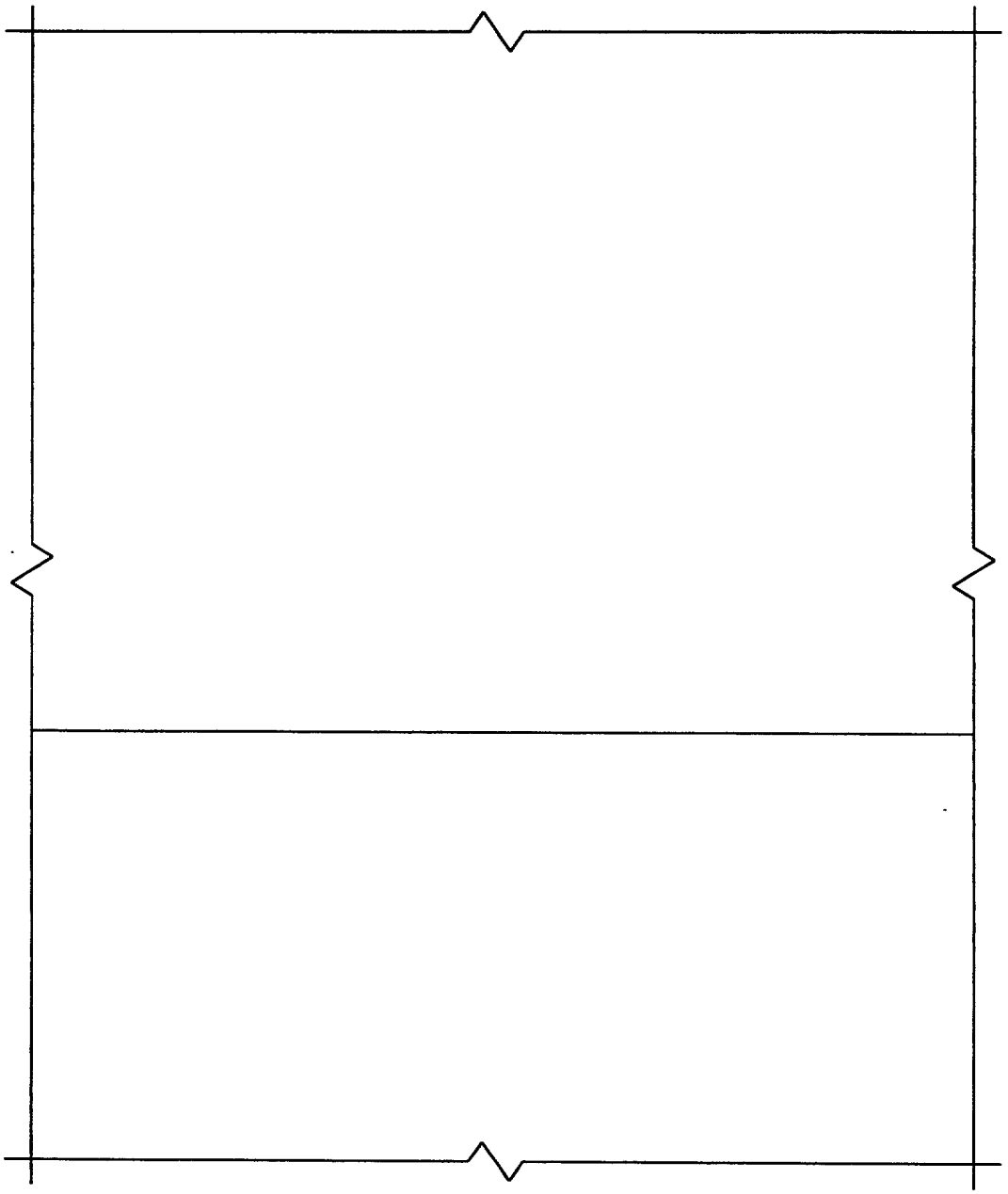
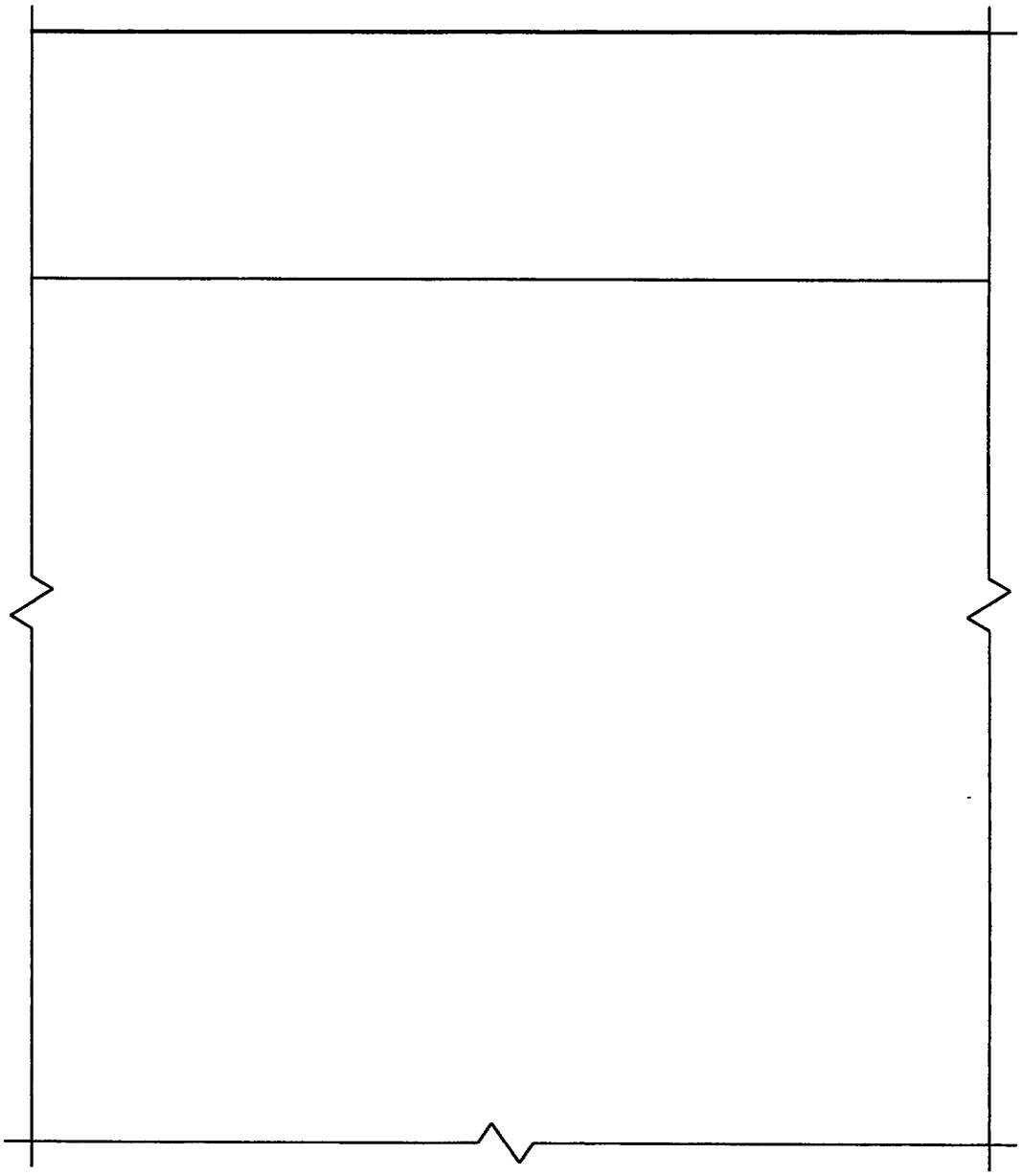


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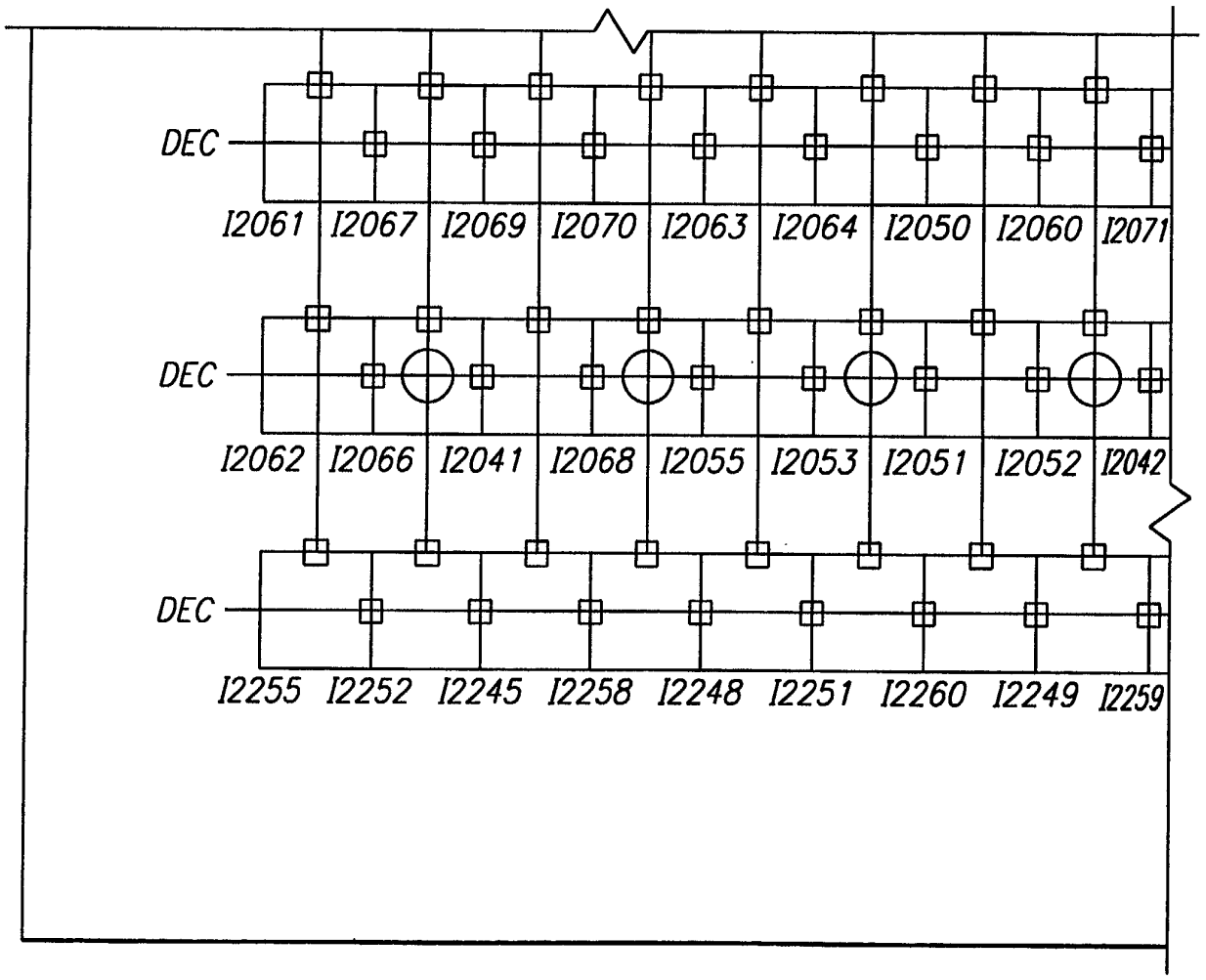
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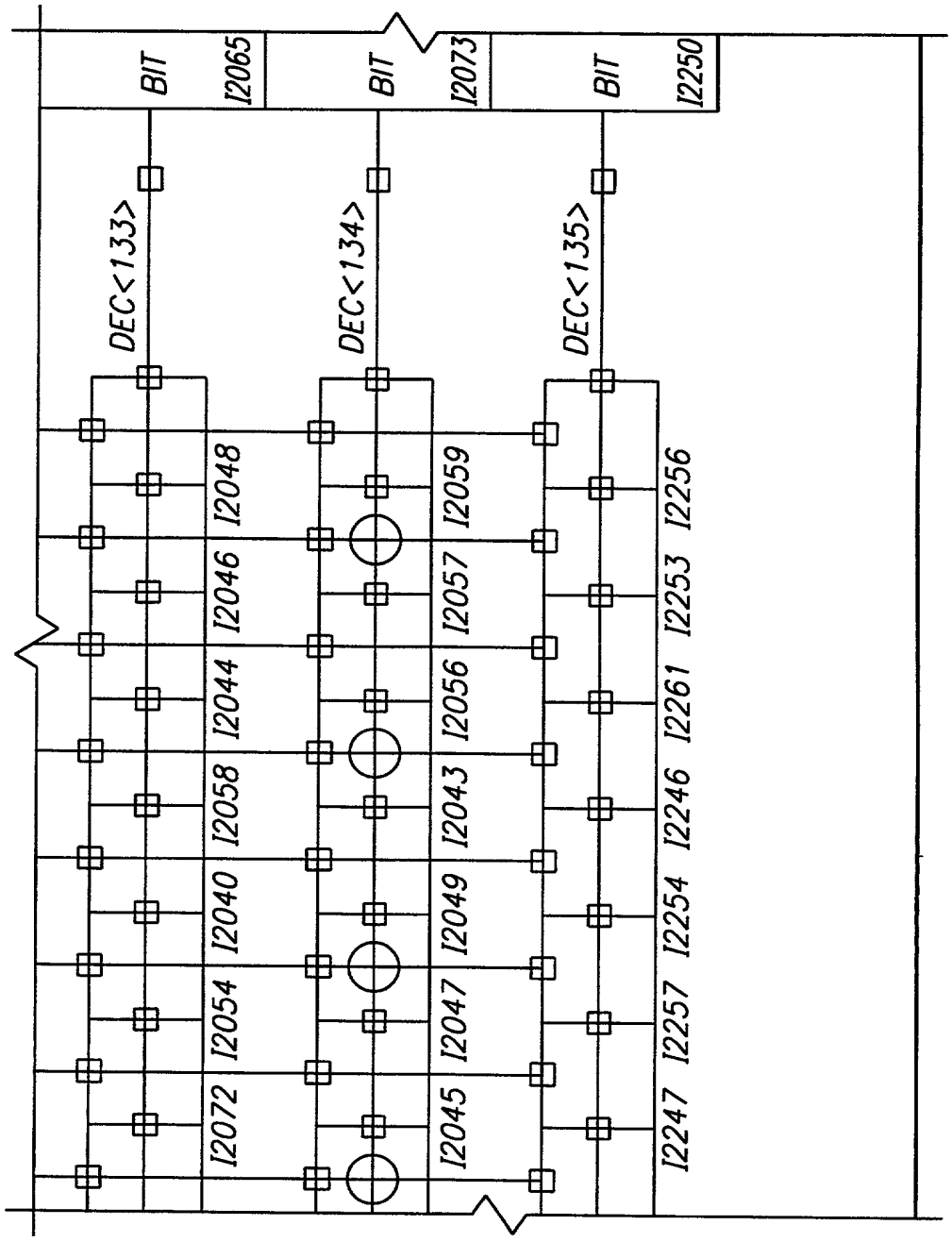
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Фиг. 1

Document "815/3273" - Page 1 of 1

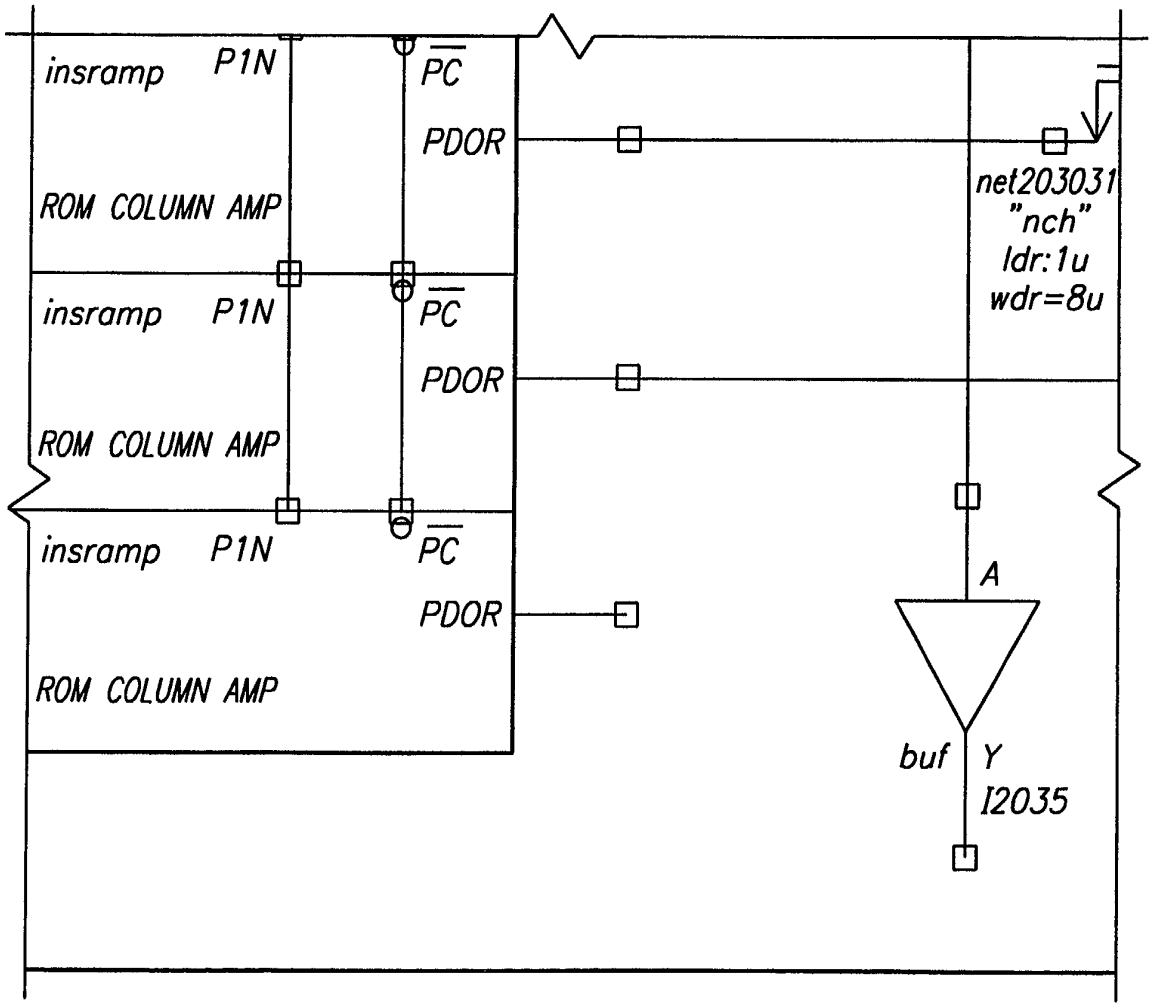
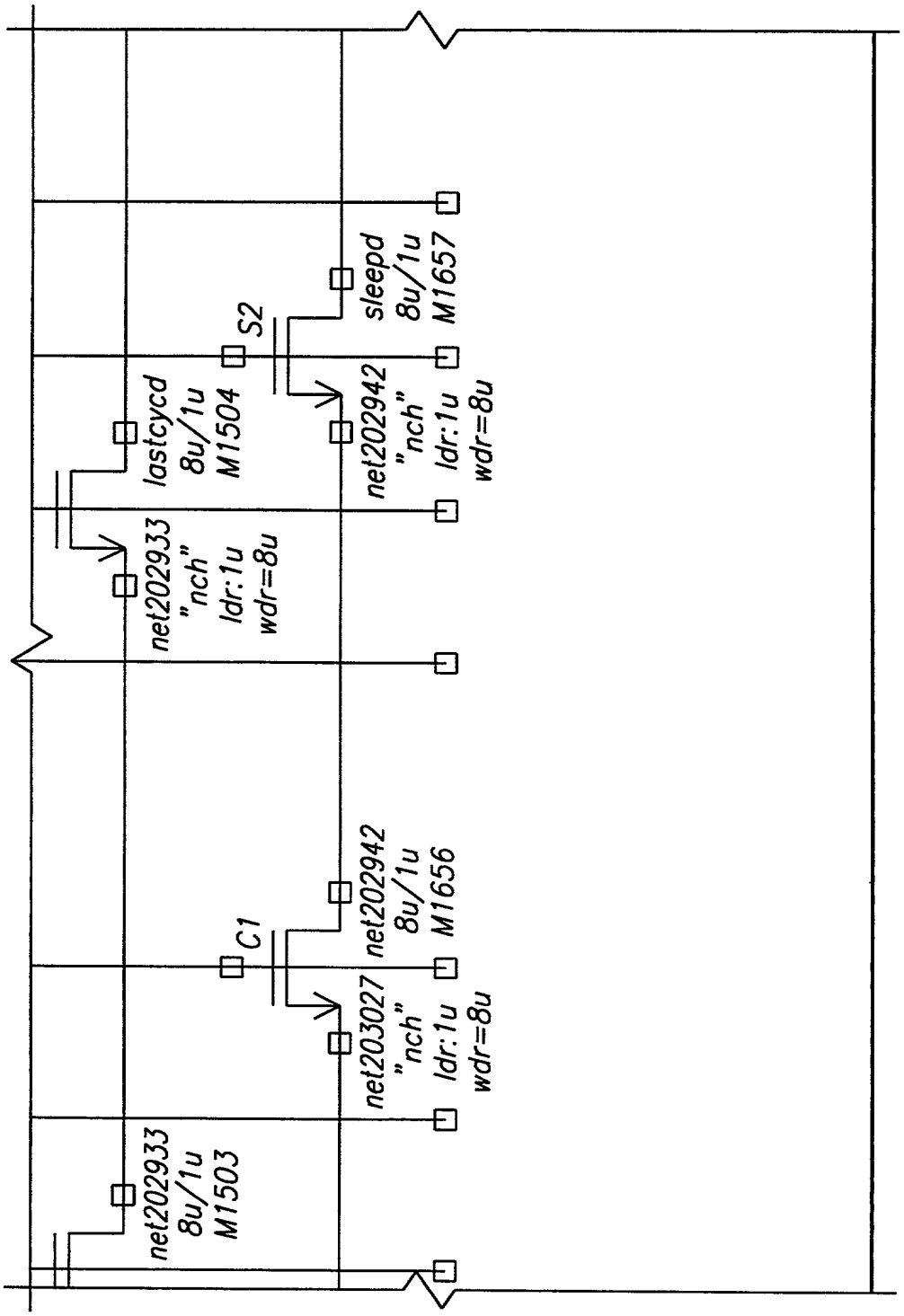
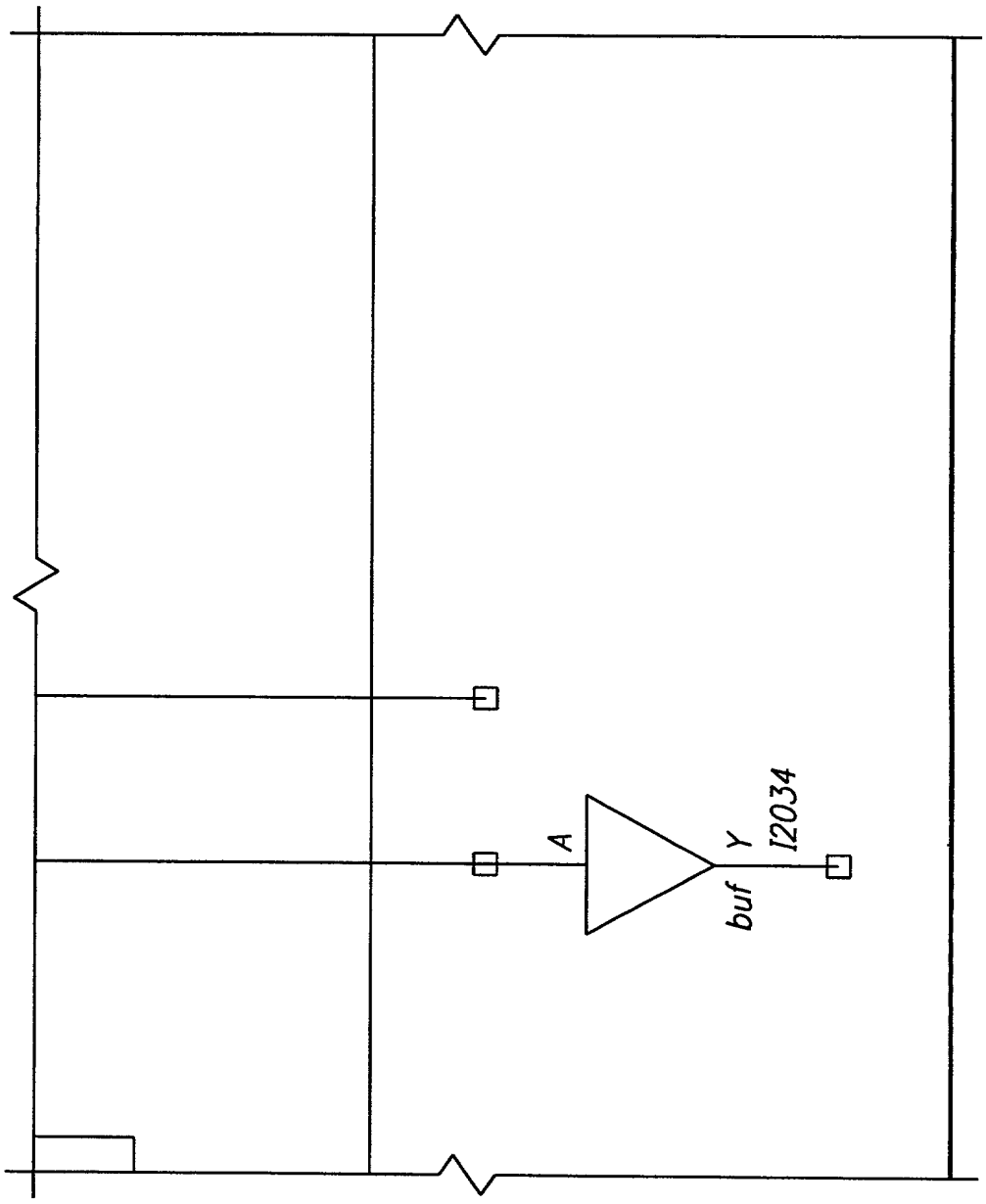


Fig 1.0604a0c


net202933
8u/1u
M1503
net203027
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ldr:1u
wdr=8u
C1
net202942
8u/1u
M1656
net202933
"nch"
ldr:1u
wdr=8u
lastcycd
8u/1u
M1504
S2
net202942
"nch"
ldr:1u
wdr=8u
sleepd
8u/1u
M1657

Фиг. 1.0504.00



ЭЛТА.059.011 ВТ

Копия верна

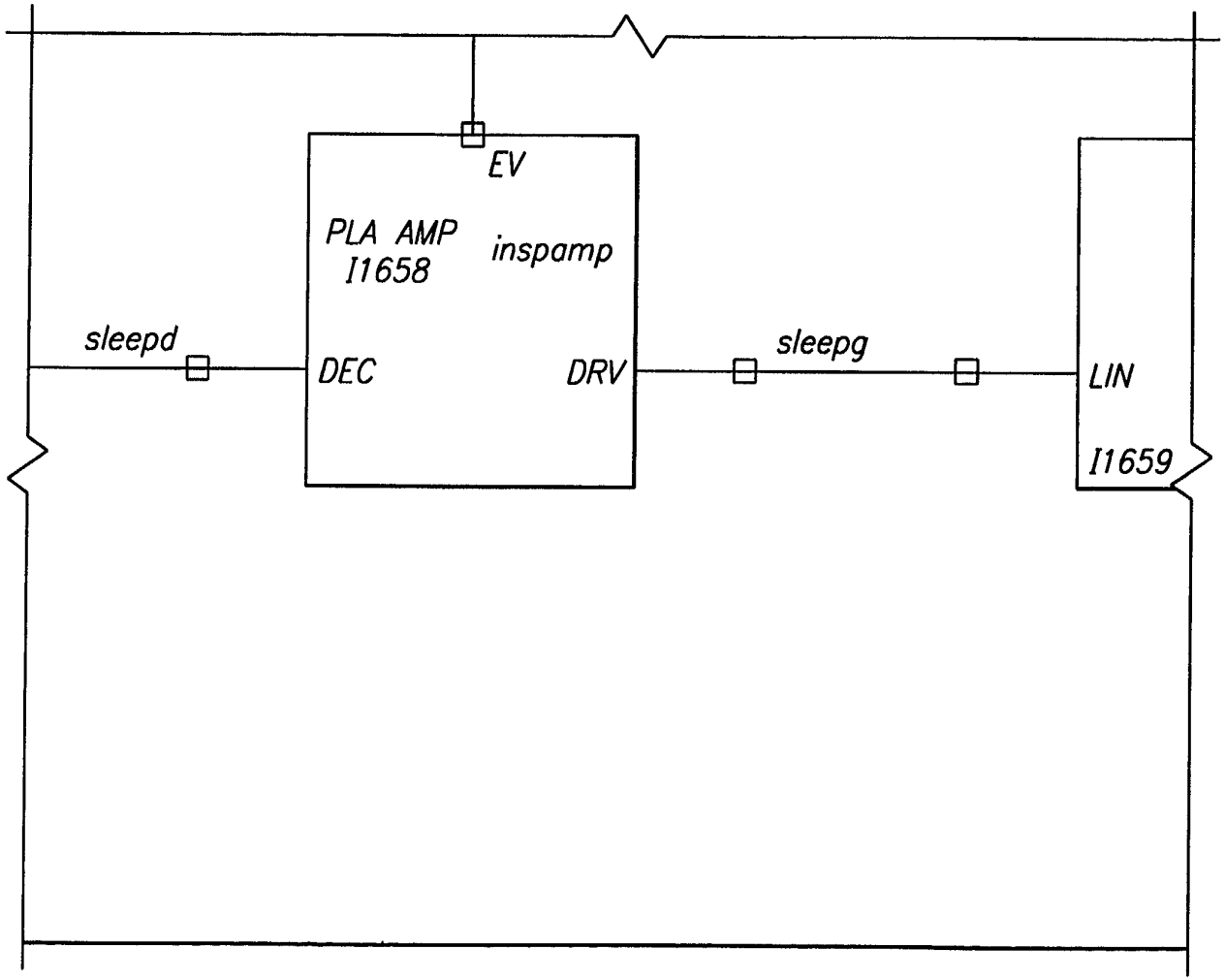


Fig 1.0604.0F

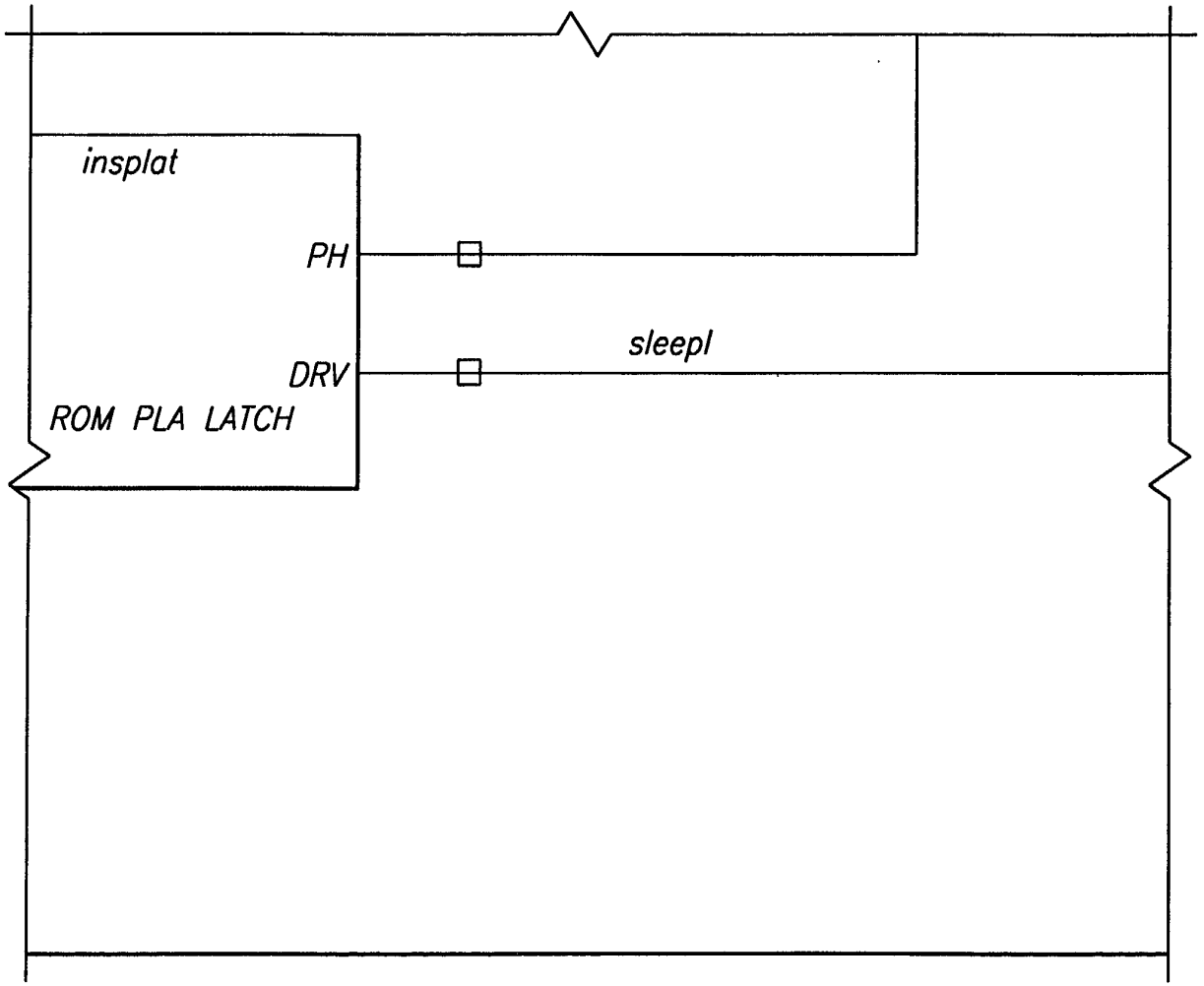


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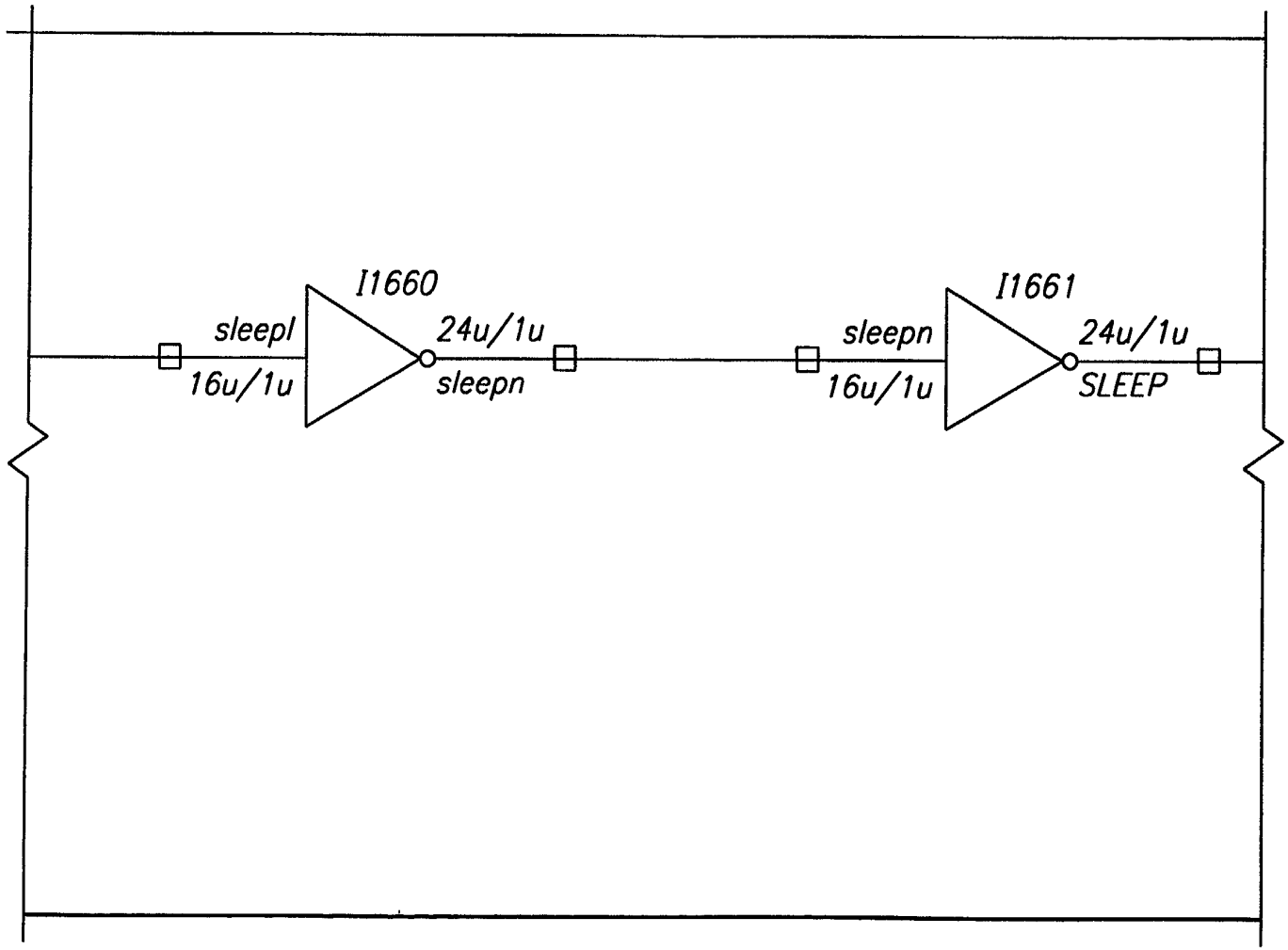


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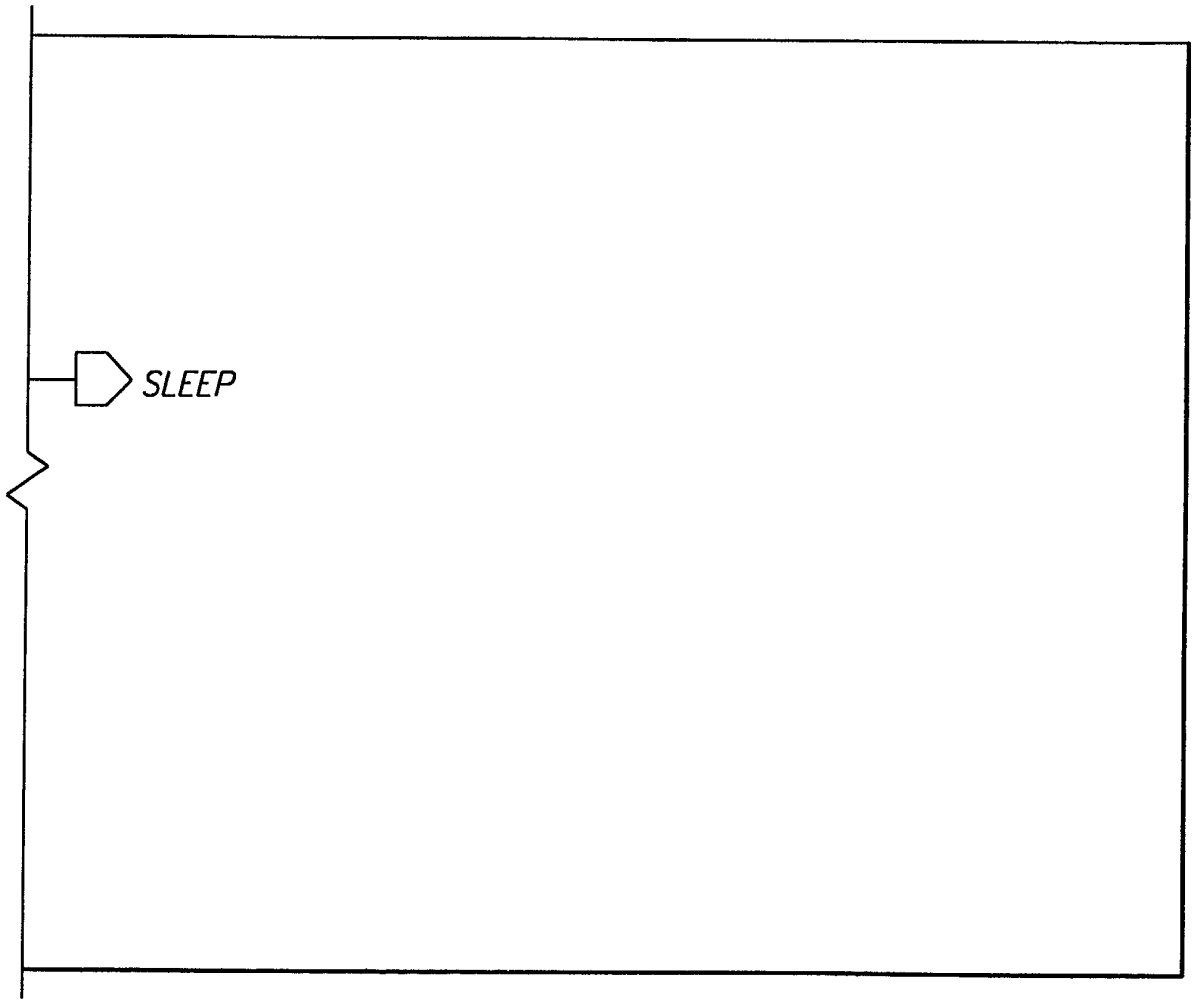


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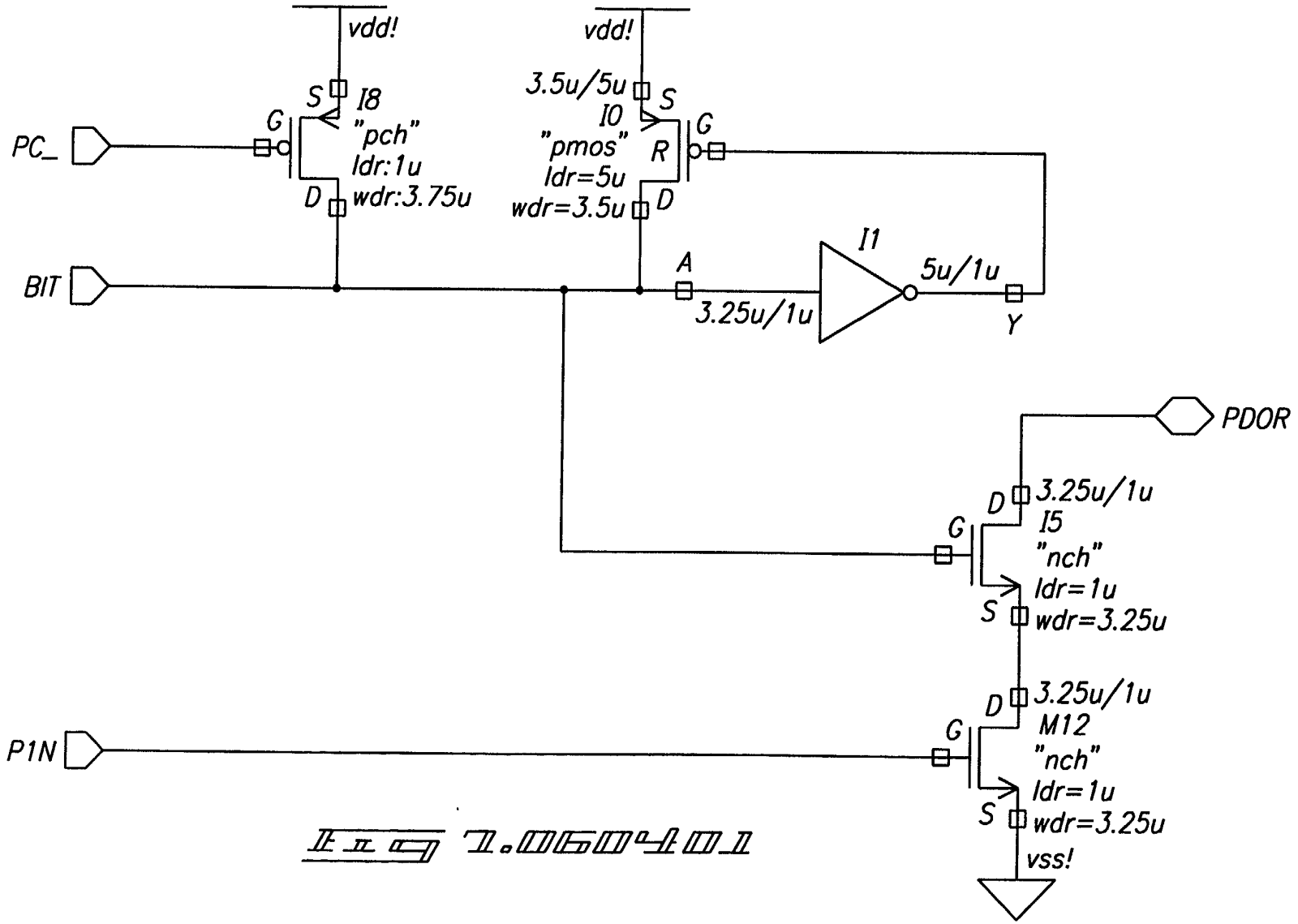
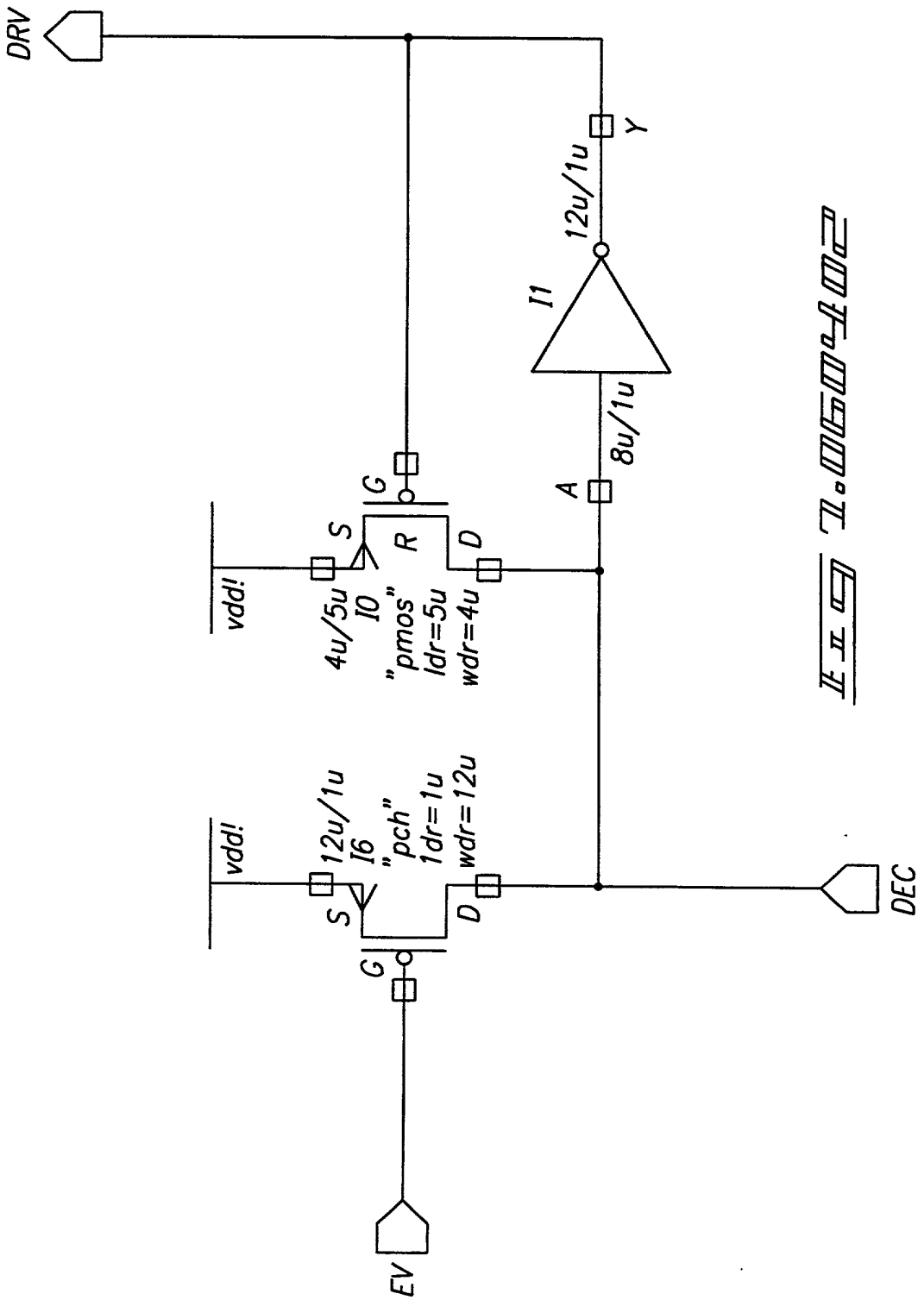


Fig 1.0604401



Фиг 1.0604402

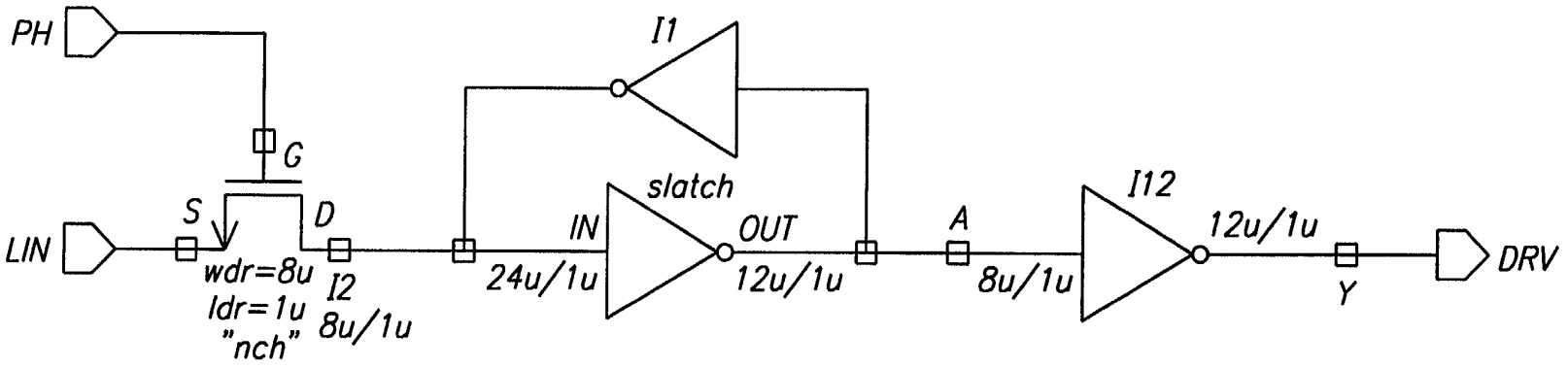


Fig 1.0604403

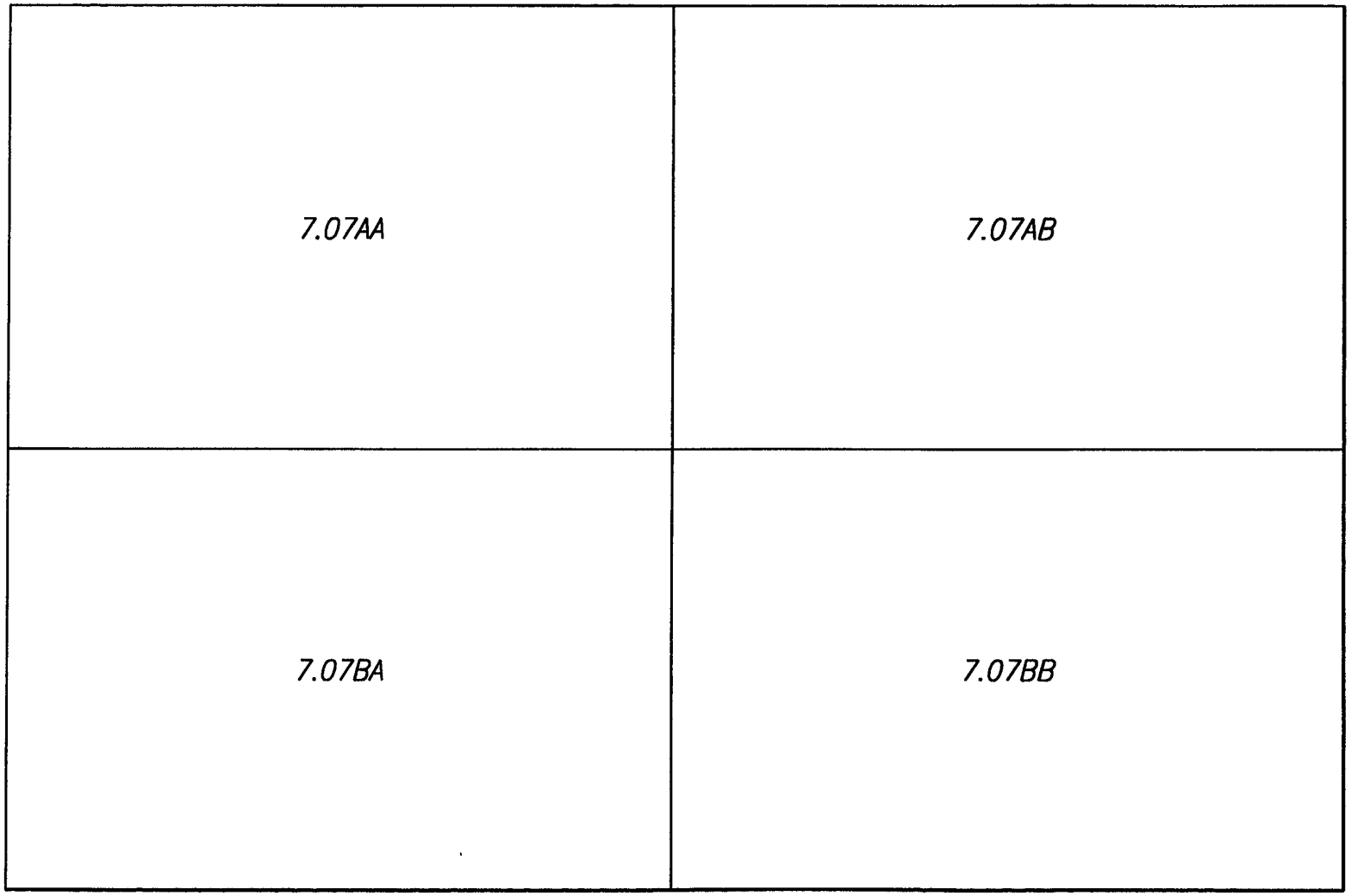
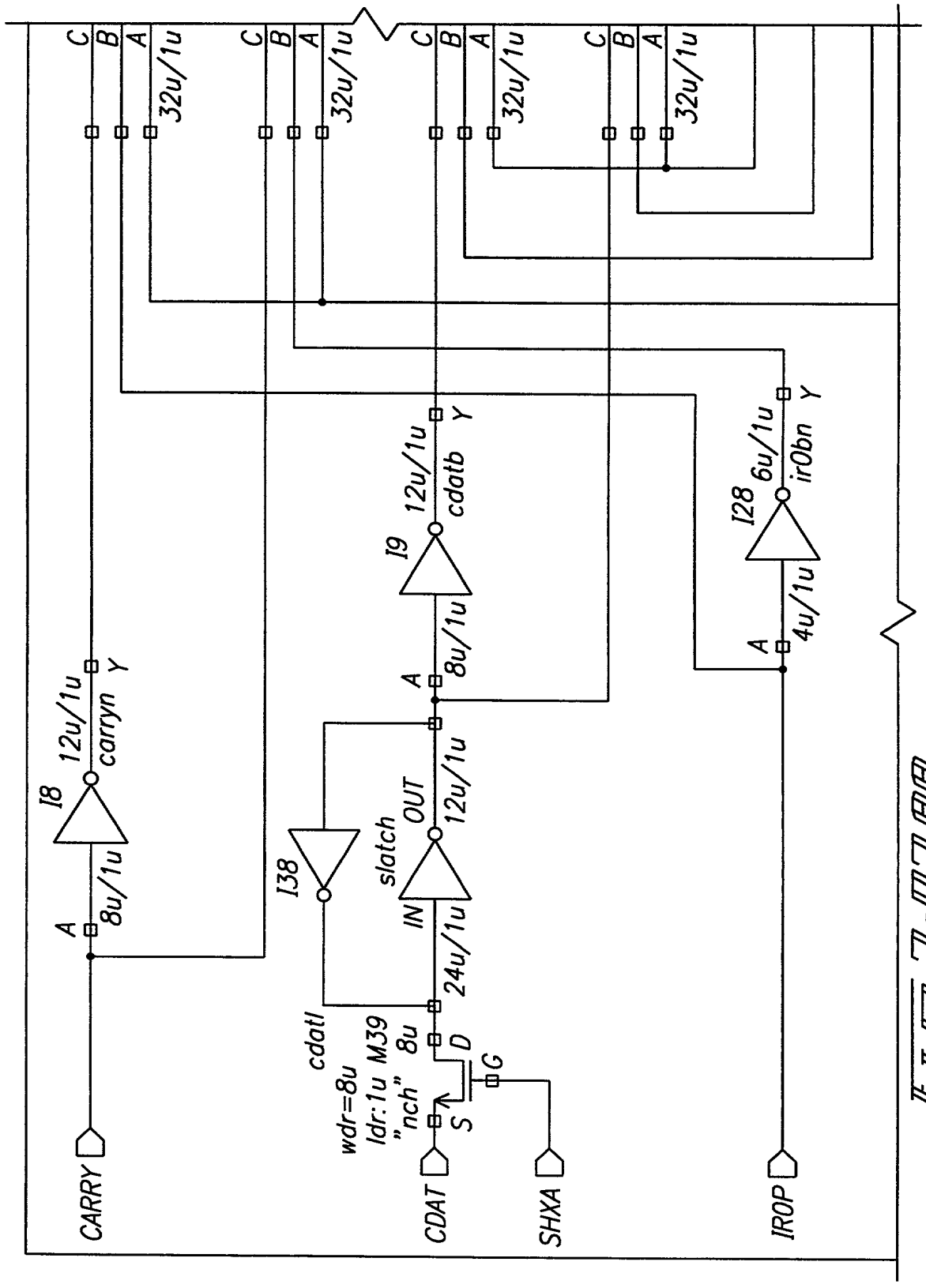
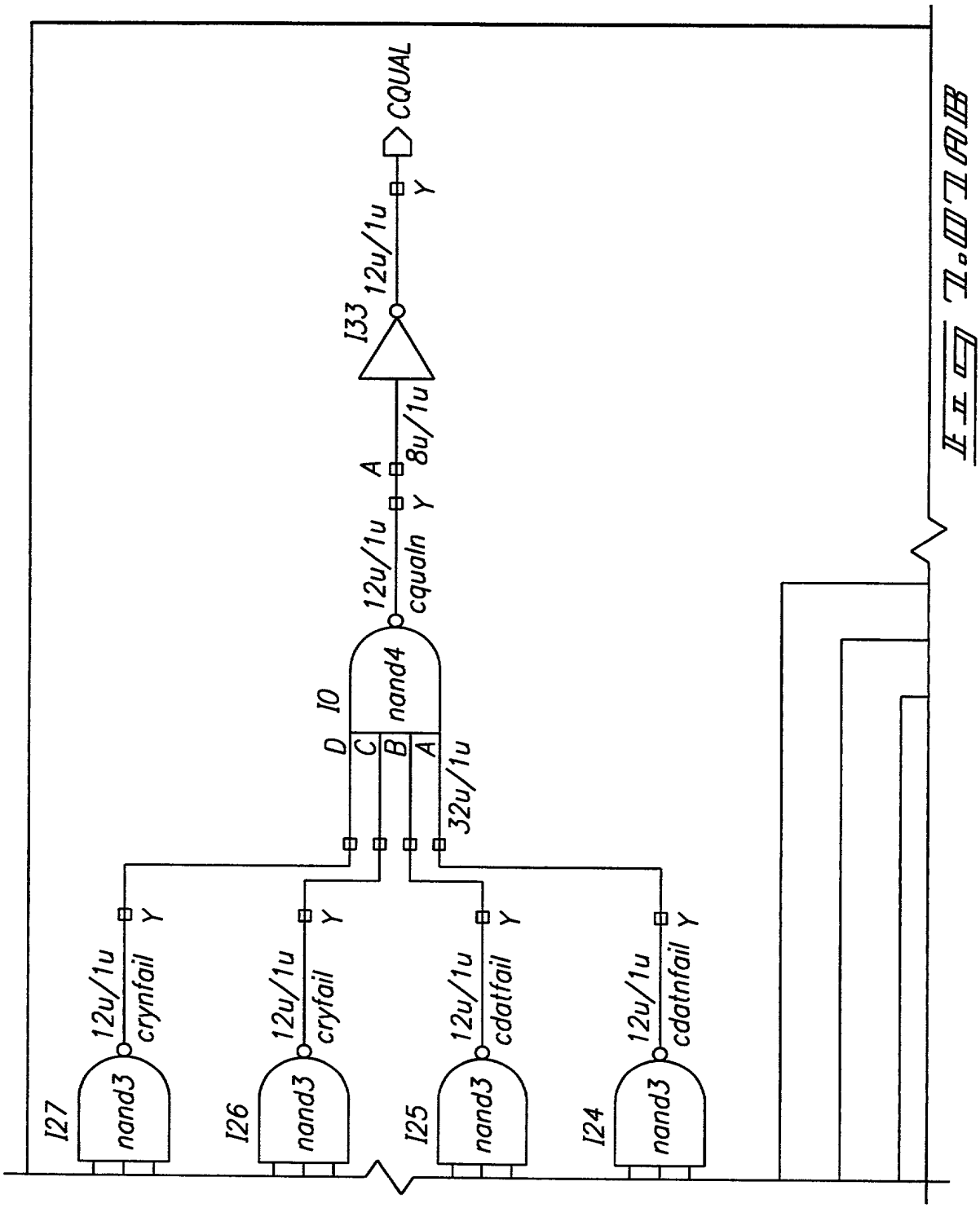


Fig 7.07


C
B
A
32u/1u
I8
12u/1u
carryn
Y
8u/1u
CARRY
I38
slatch
OUT
IN
12u/1u
24u/1u
cdatl
wdr=8u
ldr:1u M39
"nch" 8u
D
G
S
CDAT
SHXA
I9
12u/1u
cdatb
8u/1u
I28
6u/1u
ir0bn
4u/1u
IR0P


I27
nand3
12u/1u
crynfail
Y
I26
nand3
12u/1u
cryfail
Y
I25
nand3
12u/1u
cdatfail
Y
I24
nand3
12u/1u
cdatnfail
Y
I0
nand4
D
C
B
A
32u/1u
12u/1u
cqualn
Y
A
8u/1u
I33
12u/1u
Y
CQUAL

EP 0 902 860

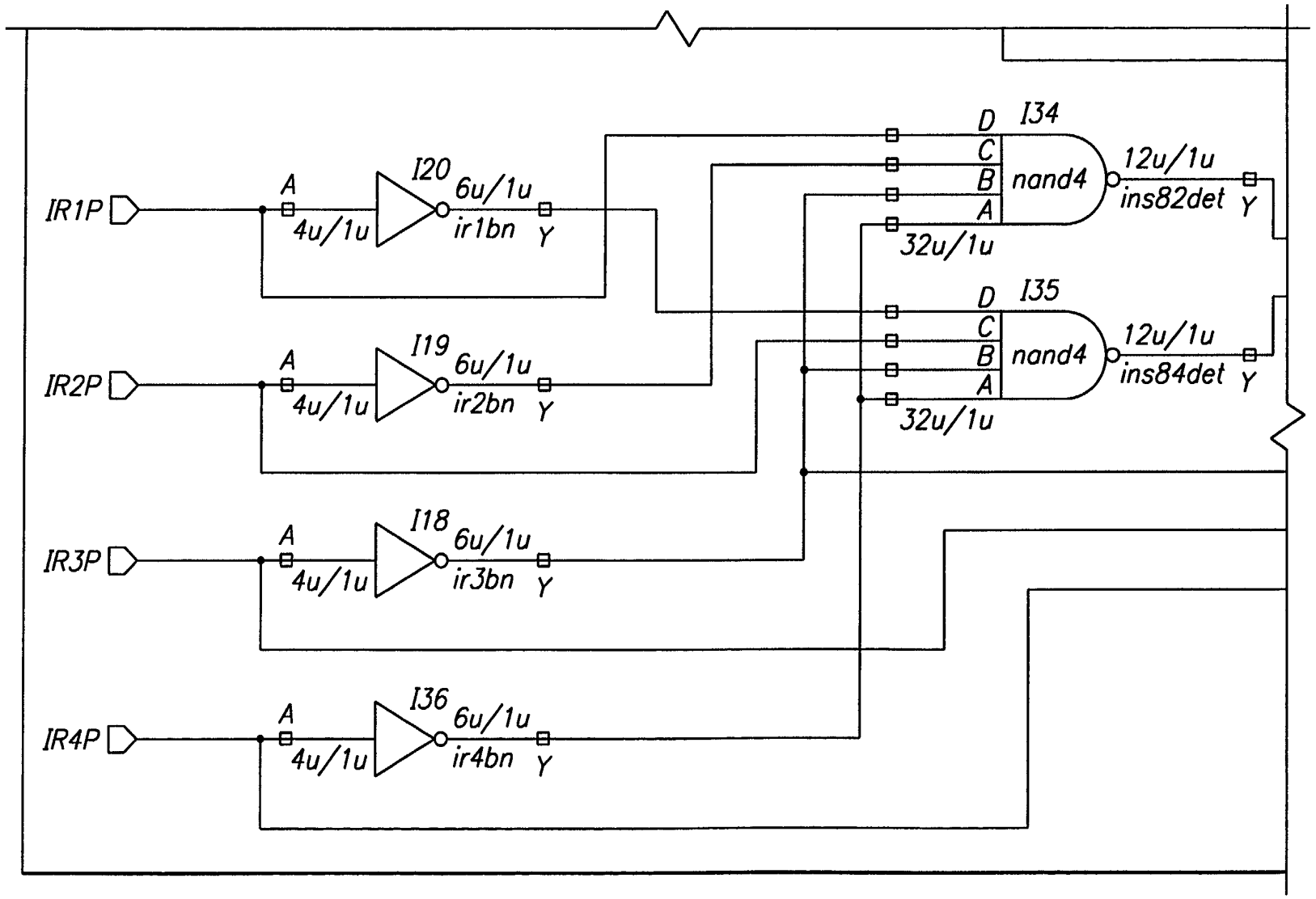
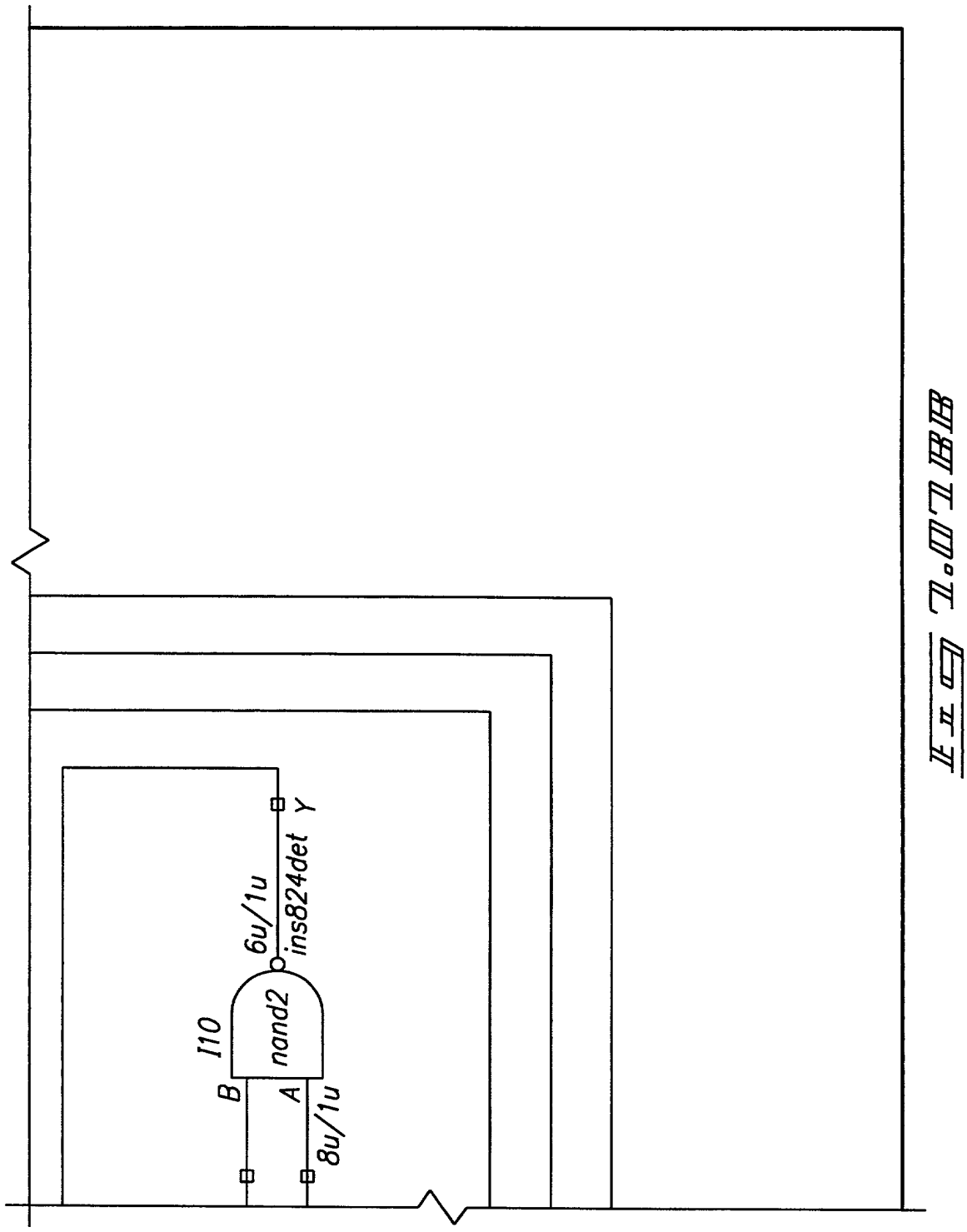


Fig 1.0 (BA)


6u/1u
ins824det
Y
I10
nand2
B
A
8u/1u

831/3273

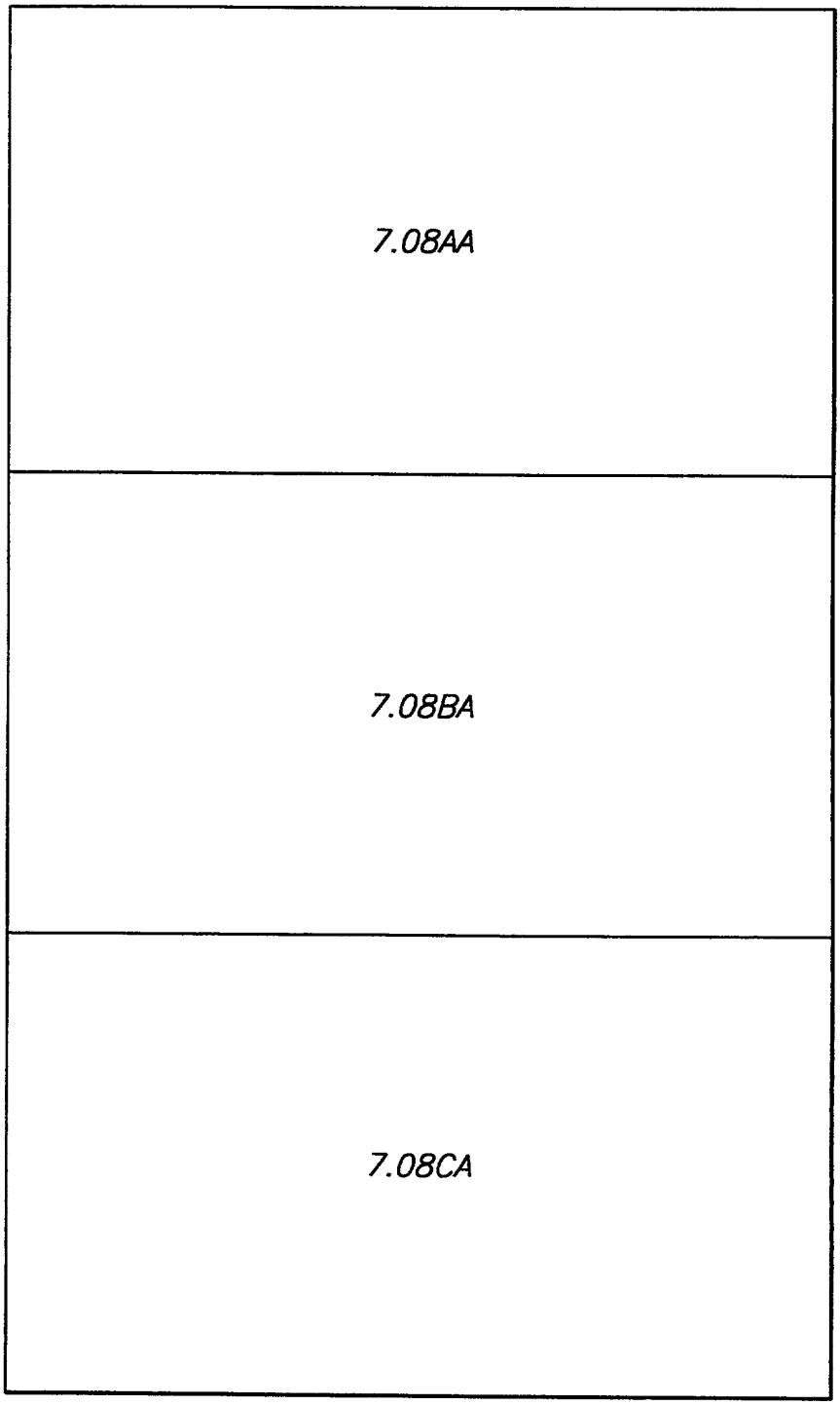
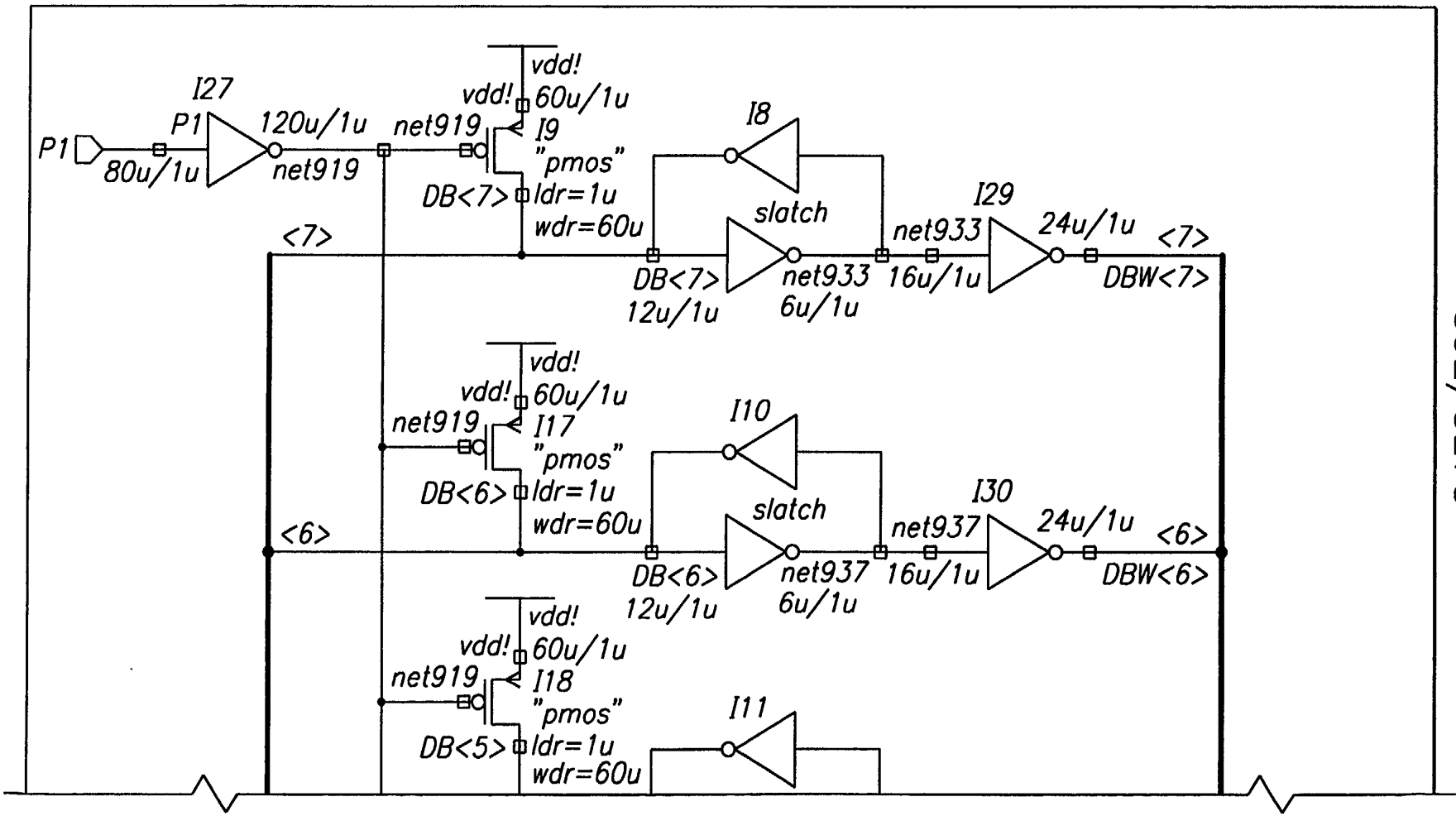


Fig 7.08

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832/3273

Fig 11.0BAA

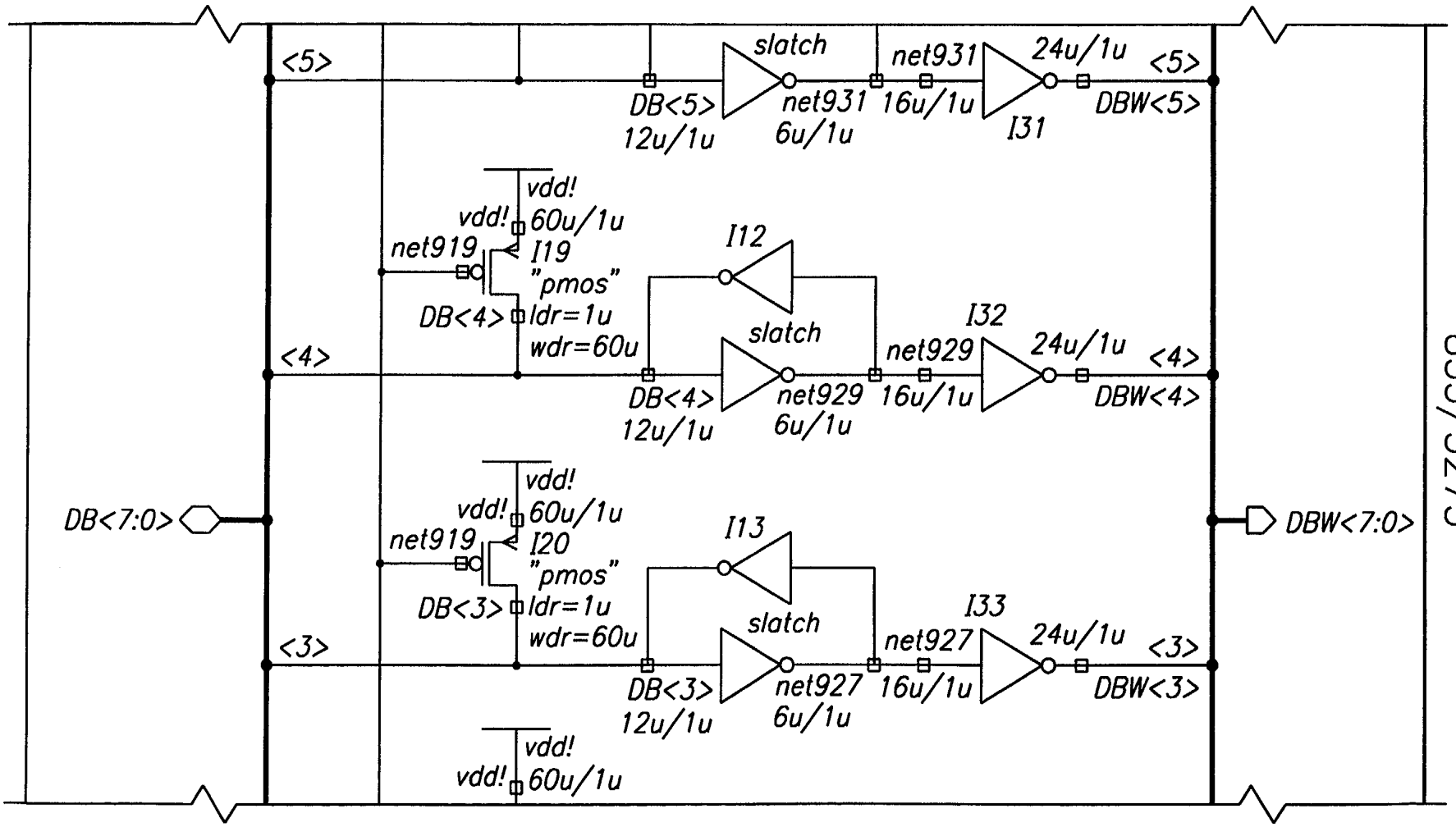

<5>
slatch
net931
24u/1u
<5>
DB<5>
12u/1u
net931
6u/1u
16u/1u
I31
DBW<5>
vdd!
vdd!
60u/1u
net919
I19
"pmos"
DB<4>
ldr=1u
wdr=60u
I12
I32
<4>
slatch
net929
24u/1u
<4>
DB<4>
12u/1u
net929
6u/1u
16u/1u
DBW<4>
DB<7:0>
vdd!
vdd!
60u/1u
net919
I20
"pmos"
DB<3>
ldr=1u
wdr=60u
I13
I33
<3>
slatch
net927
24u/1u
<3>
DB<3>
12u/1u
net927
6u/1u
16u/1u
DBW<3>
DBW<7:0>
vdd!
vdd!
60u/1u
833/3273

Fig 7.0BBBA

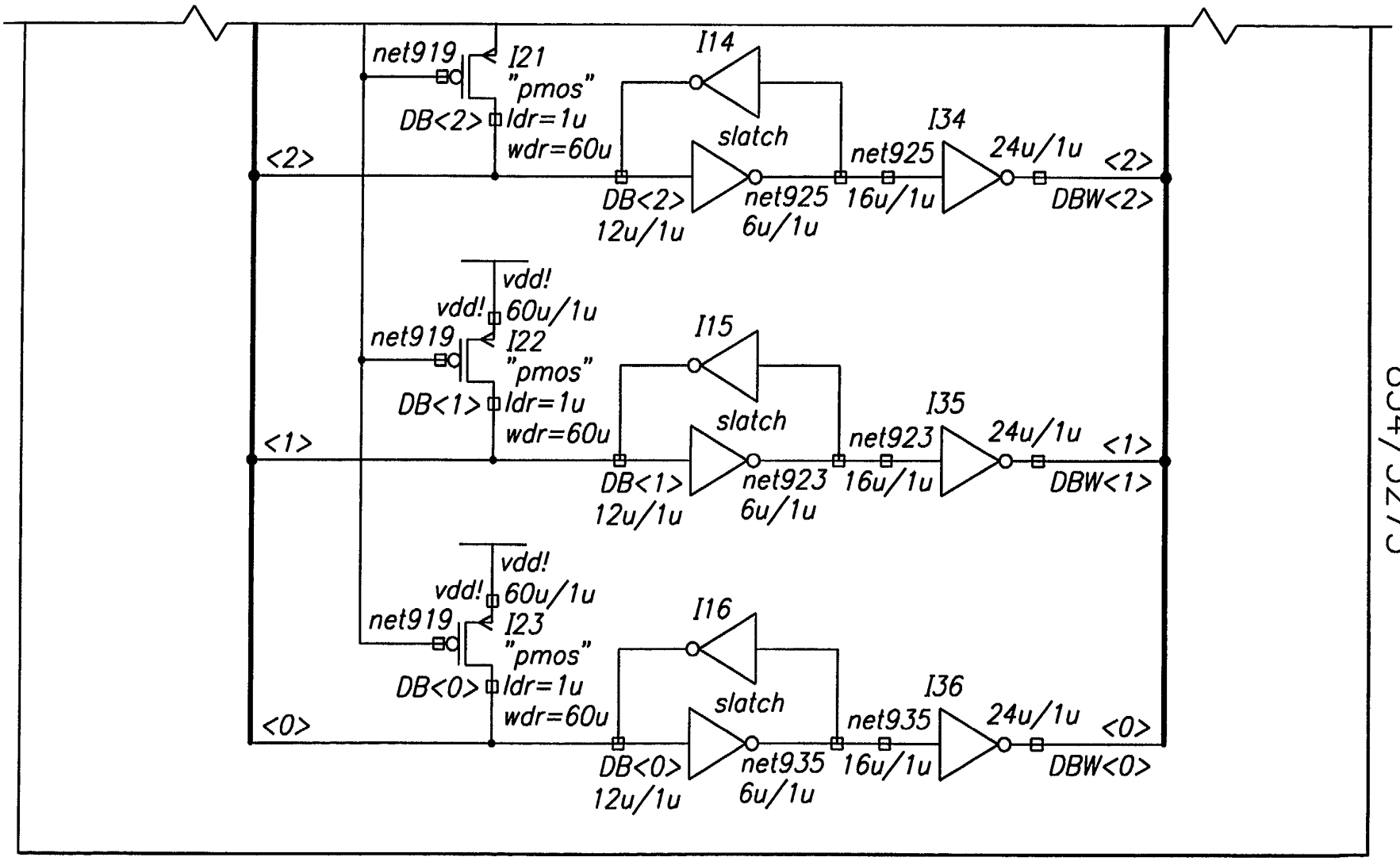

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DB<2>
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wdr=60u
I14
slatch
I34
net925
24u/1u
<2>
DB<2>
12u/1u
net925
6u/1u
16u/1u
DBW<2>
vdd!
vdd!
60u/1u
net919
I22
"pmos"
DB<1>
ldr=1u
wdr=60u
I15
slatch
I35
net923
24u/1u
<1>
DB<1>
12u/1u
net923
6u/1u
16u/1u
DBW<1>
vdd!
vdd!
60u/1u
net919
I23
"pmos"
DB<0>
ldr=1u
wdr=60u
I16
slatch
I36
net935
24u/1u
<0>
DB<0>
12u/1u
net935
6u/1u
16u/1u
DBW<0>
834/3273

Fig 1.08CA

7.09AA	7.09AB	7.09AC	7.09AD	7.09AE	7.09AF
7.09BA	7.09BB	7.09BC	7.09BD	7.09BE	7.09BF

Fig 7.09

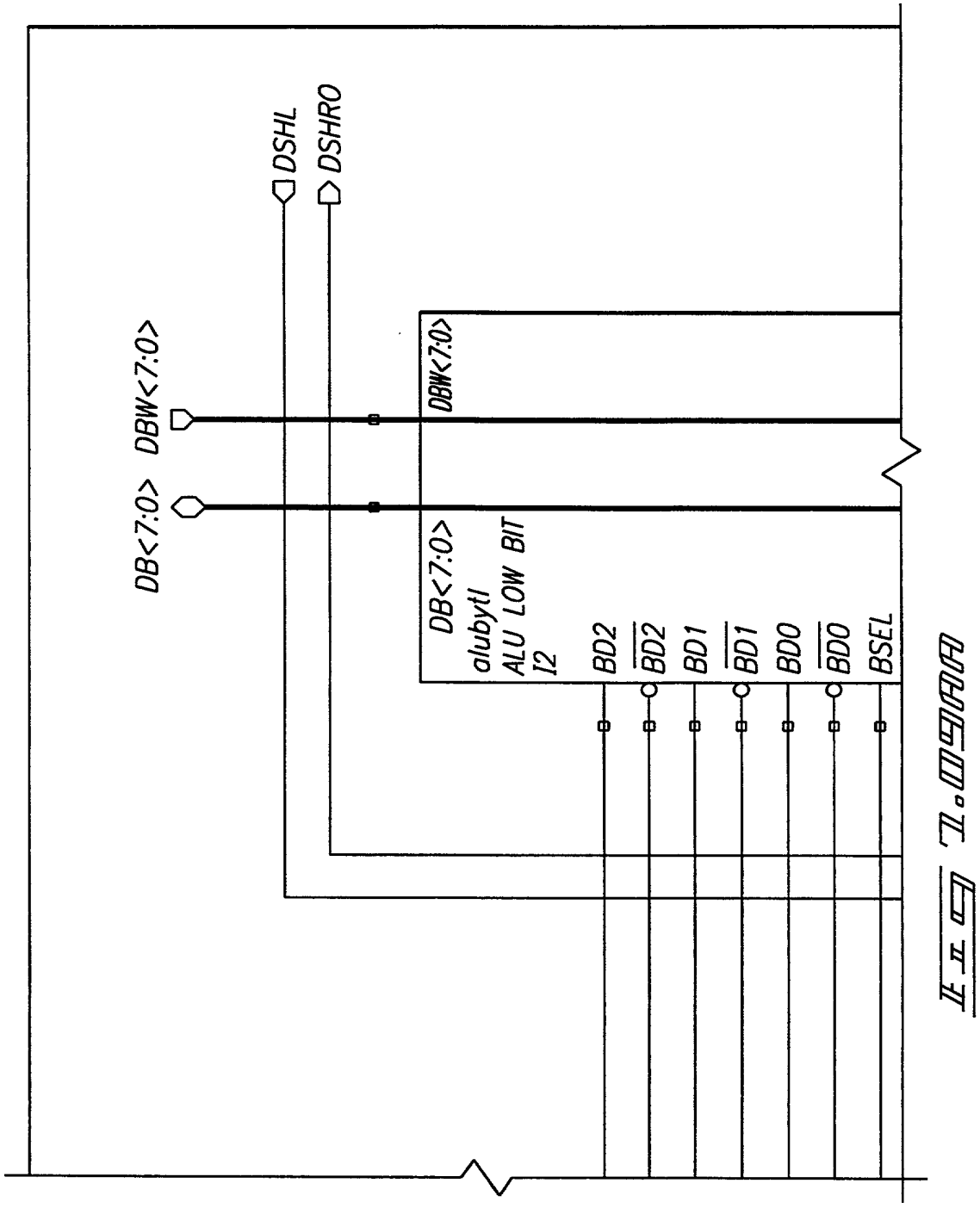
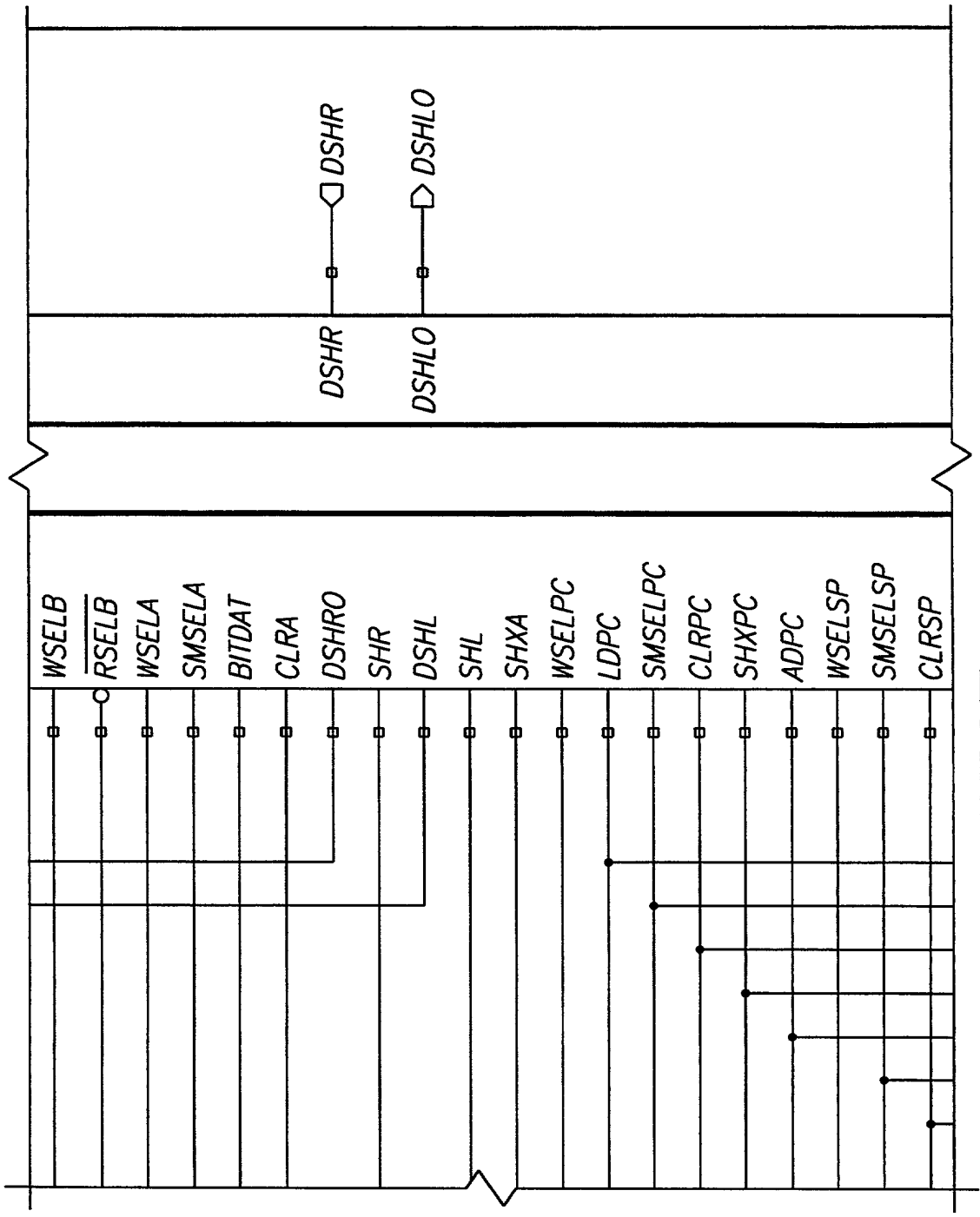

DSHL
DSHRO
DBW<7:0>
DB<7:0>
DBW<7:0>
DB<7:0>
alubyt!
ALU LOW BIT
I2
BD2
BD2
BD1
BD1
BD0
BD0
BSEL

Fig. 6.1


DSHR
DSHLO
WSELB
RSELB
WSELA
SMSELA
BITDAT
CLRA
DSHRO
SHR
DSHL
SHL
SHXA
WSELPC
LDPC
SMSELPC
CLRPC
SHXPC
ADPC
WSELSP
SMSELSP
CLRSP

Фиг. 1.09АВ

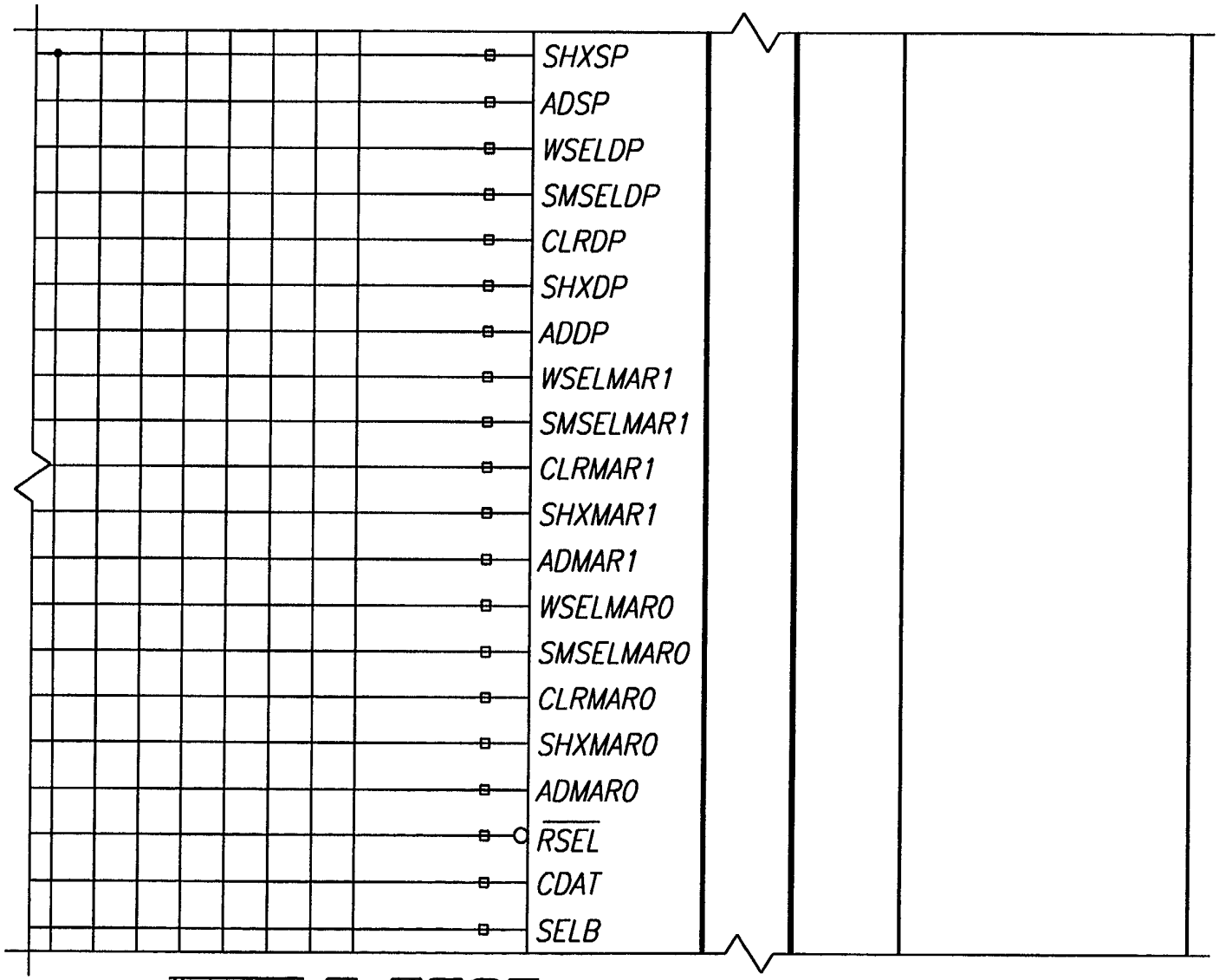

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ADSP
WSELDP
SMSELDP
CLRDP
SHXDP
ADDP
WSELMAR1
SMSELMAR1
CLRMAR1
SHXMAR1
ADMAR1
WSELMAR0
SMSELMAR0
CLRMAR0
SHXMAR0
ADMAR0
$\overline{RSEL}$
CDAT
SELB

Fig 1.094AC

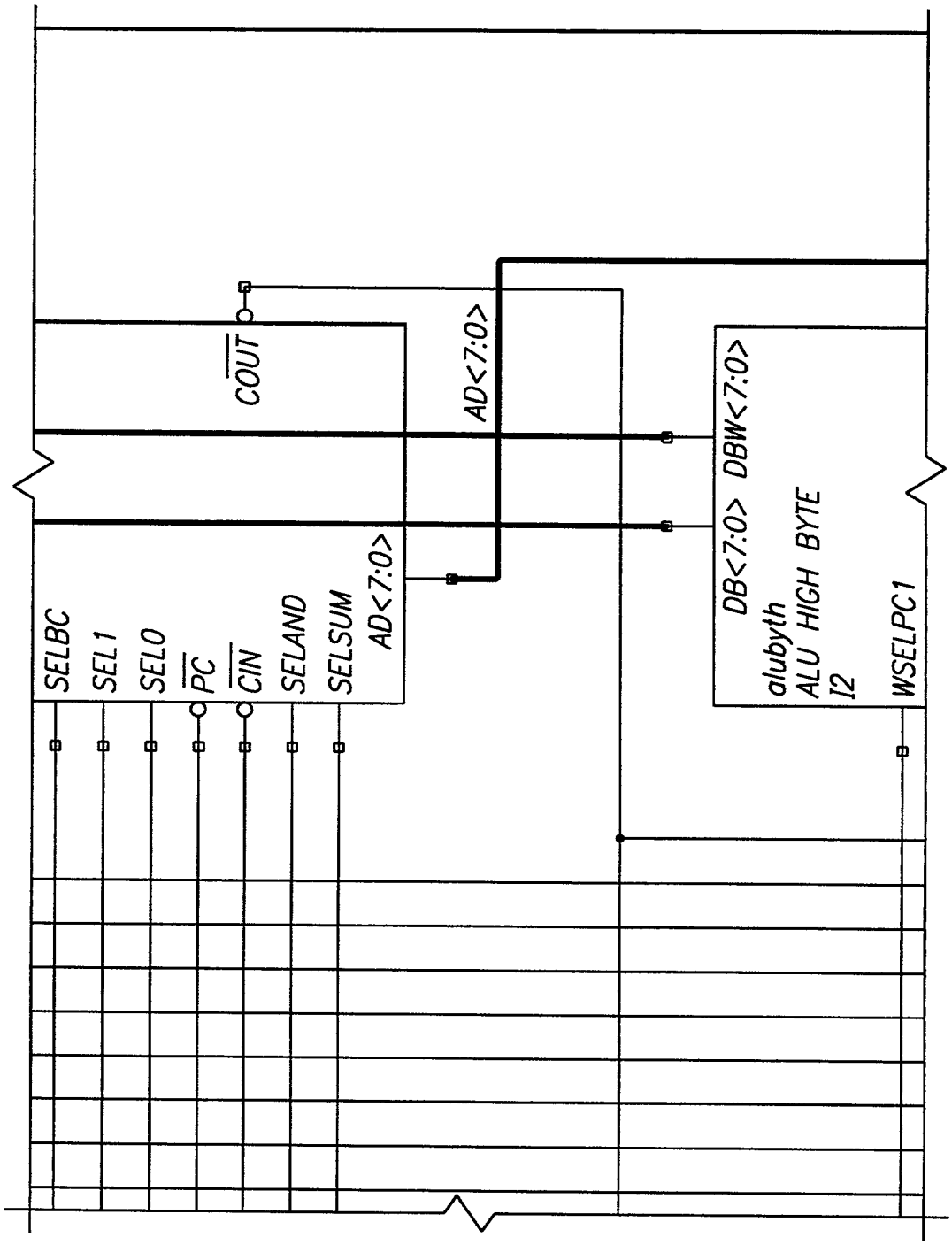

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SEL1
SEL0
PC
CIN
SELAND
SELSUM
AD<7:0>
COUT
AD<7:0>
DB<7:0>
DBW<7:0>
alubyth
ALU HIGH BYTE
I2
WSELPC1

FIG. 11.09AD

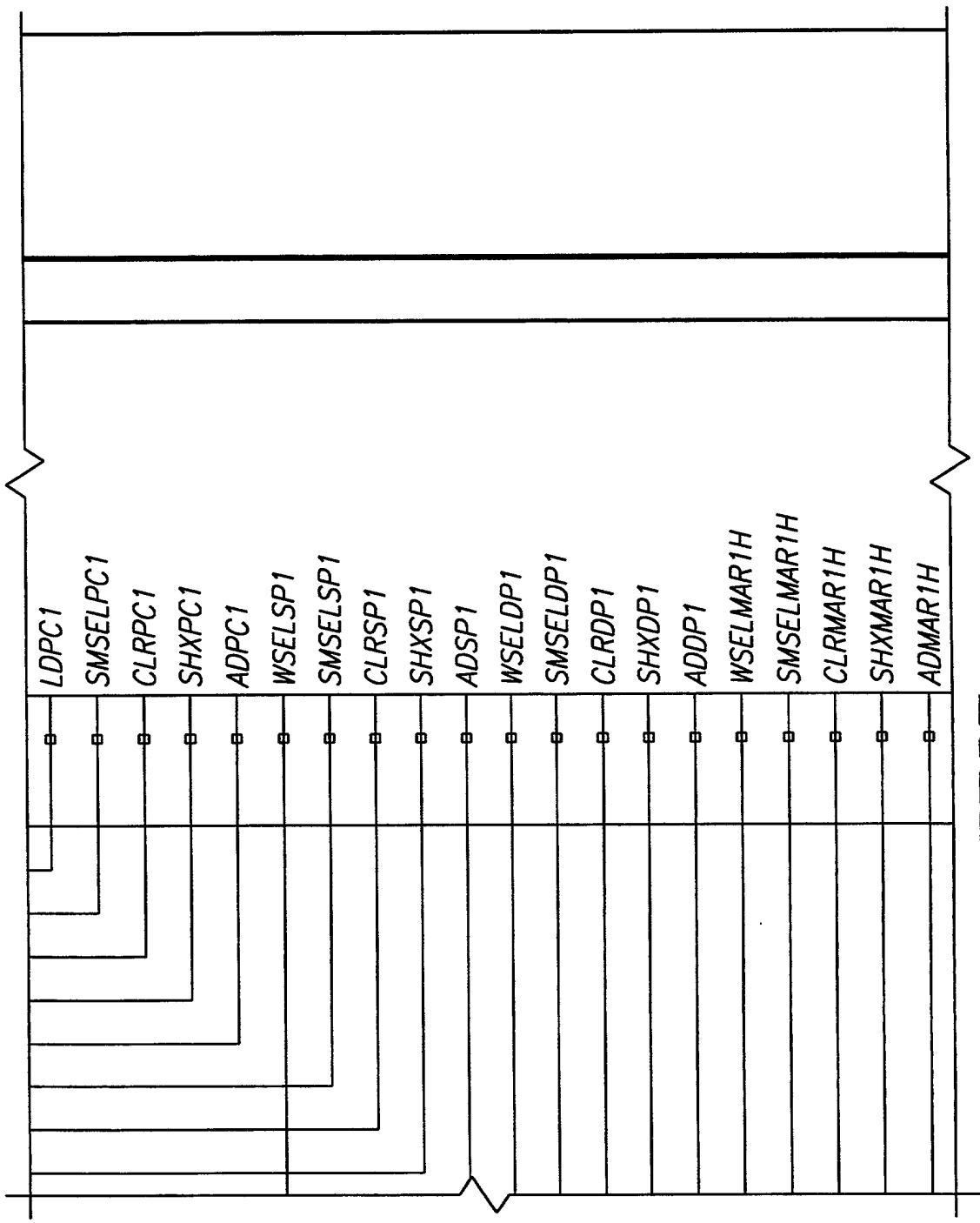


FIG 7.09AE

P01T90-29022840

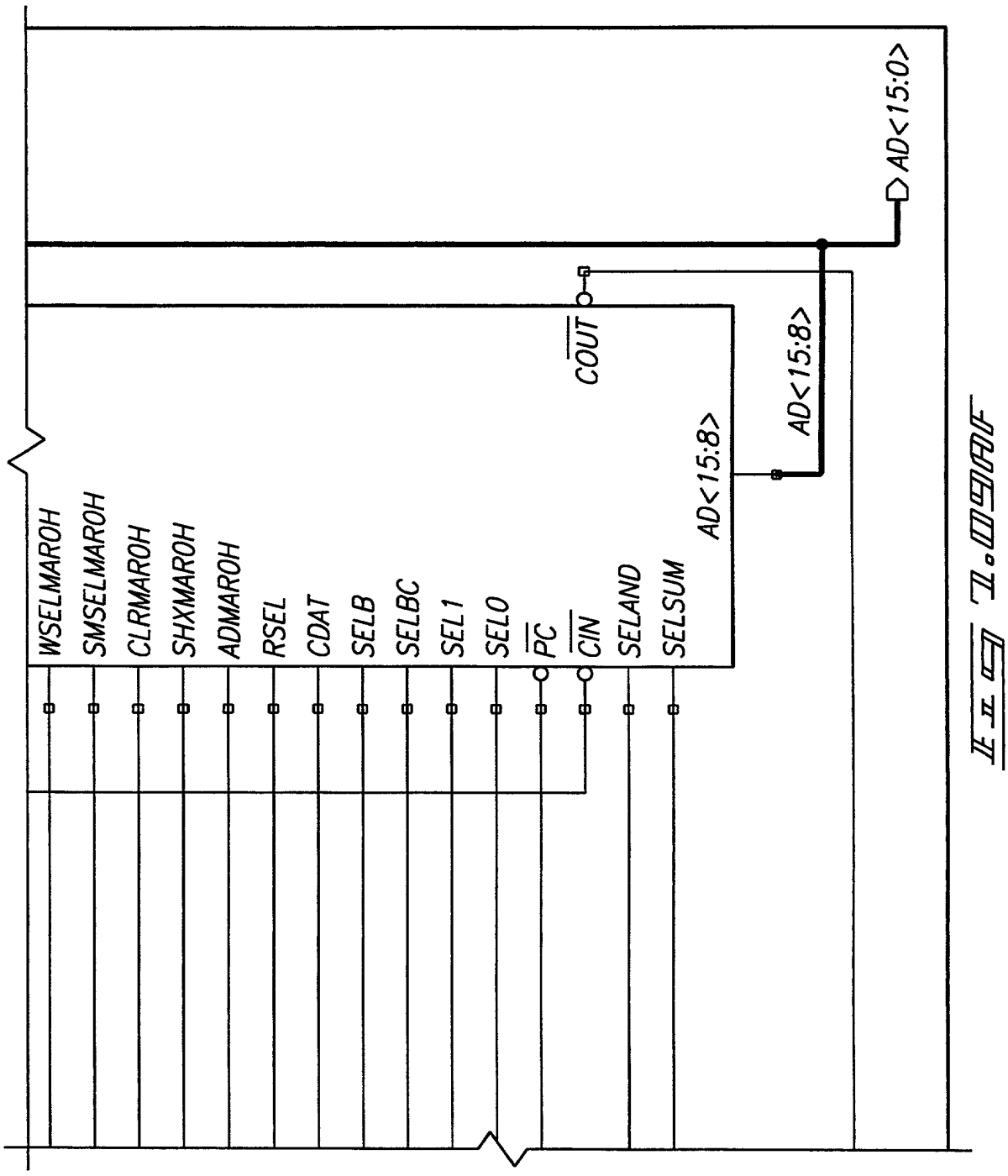

WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SEL0
PC
CIN
SELAND
SELSUM
AD<15:8>
COUT
AD<15:8>
AD<15:0>

Fig 11.09AF

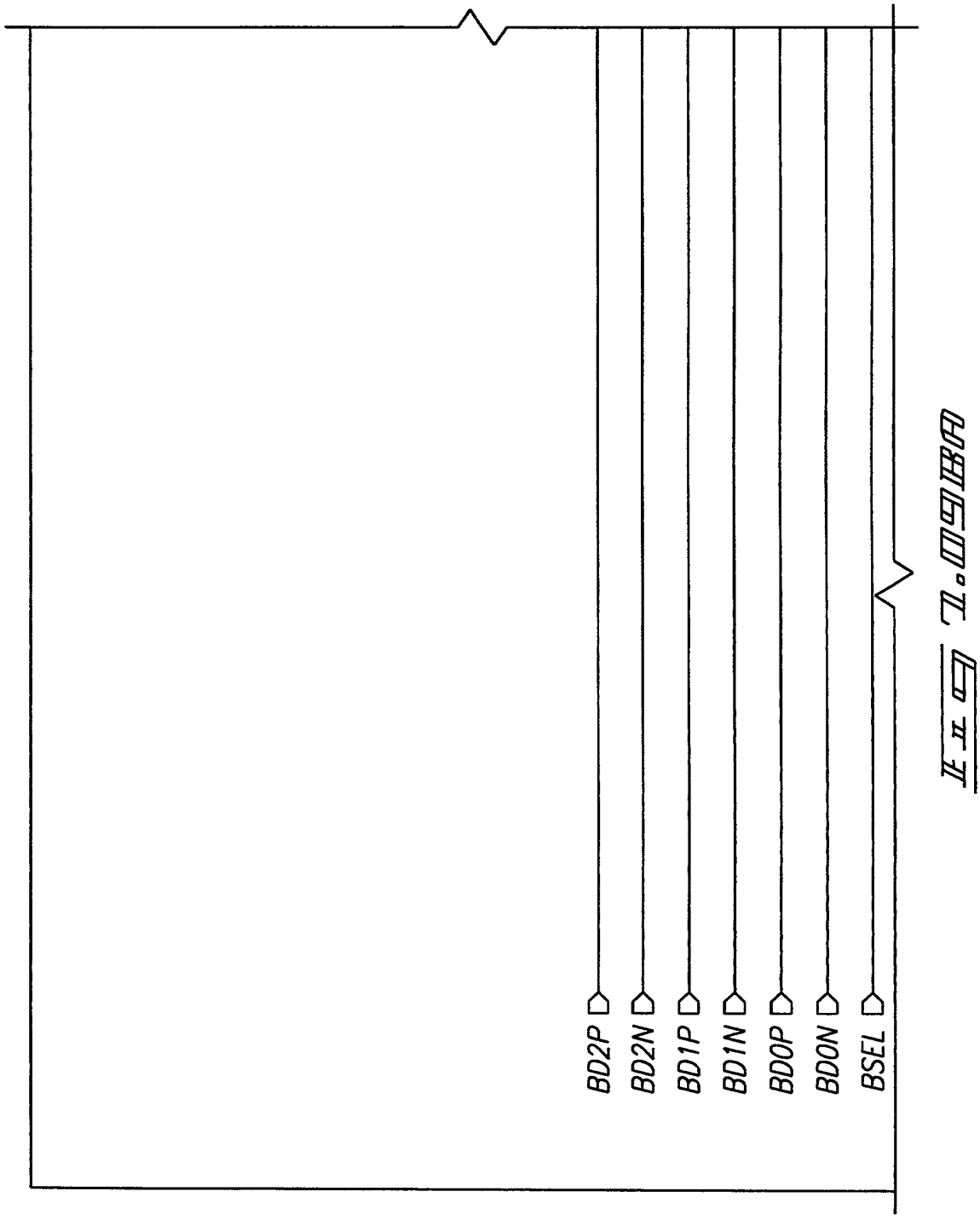


FIG. 6A

Patent Application Publication Nov. 25, 2003 Sheet 6 of 7 US 2003/0218496 A1

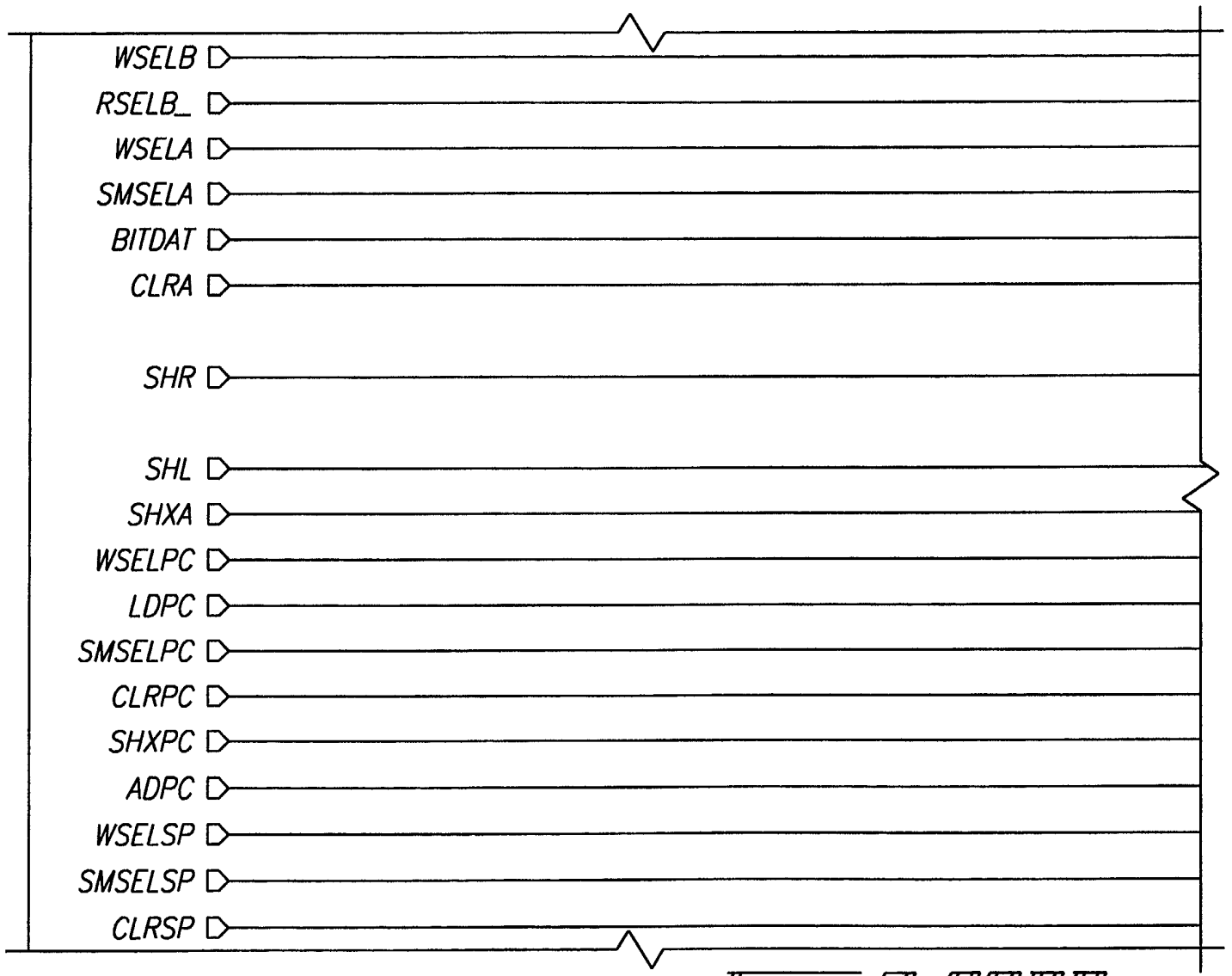
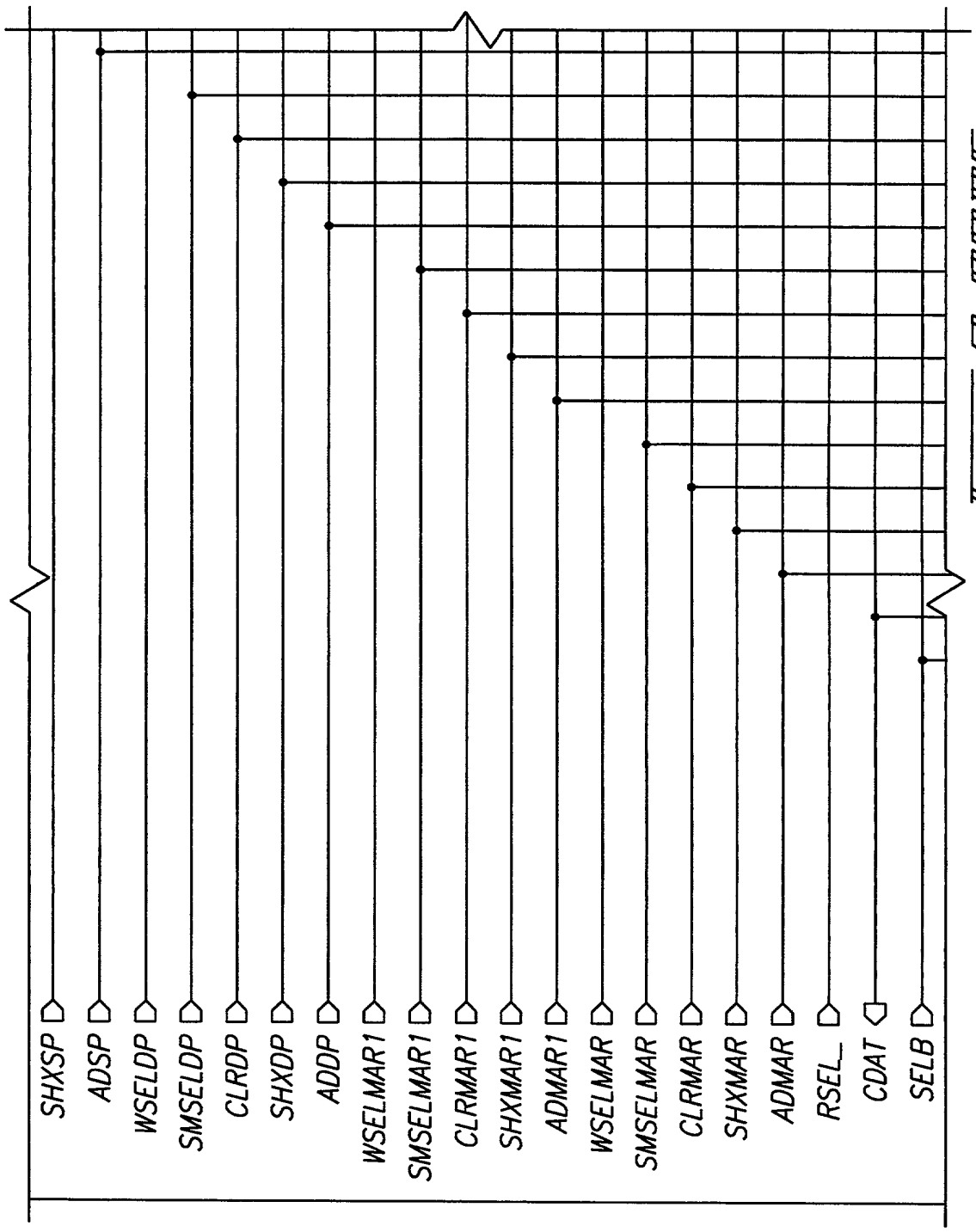

WSELB
RSELB_
WSELA
SMSELA
BITDAT
CLRA
SHR
SHL
SHXA
WSELPC
LDPC
SMSELPC
CLRPC
SHXPC
ADPC
WSELSP
SMSELSP
CLRSP

Fig 1.09BB



도면 1.009

EPTEQD "20020626

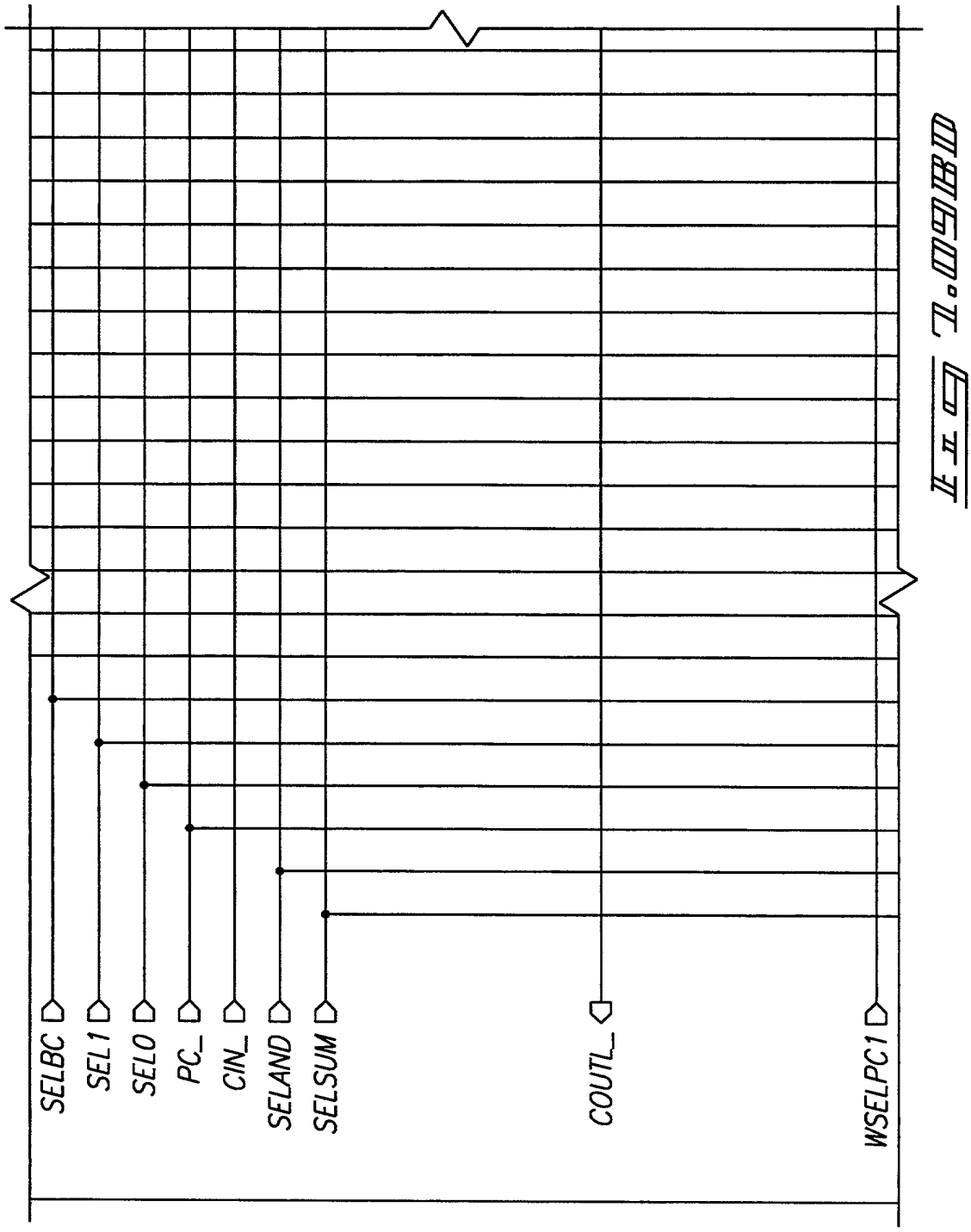


FIG. 6.0048.1

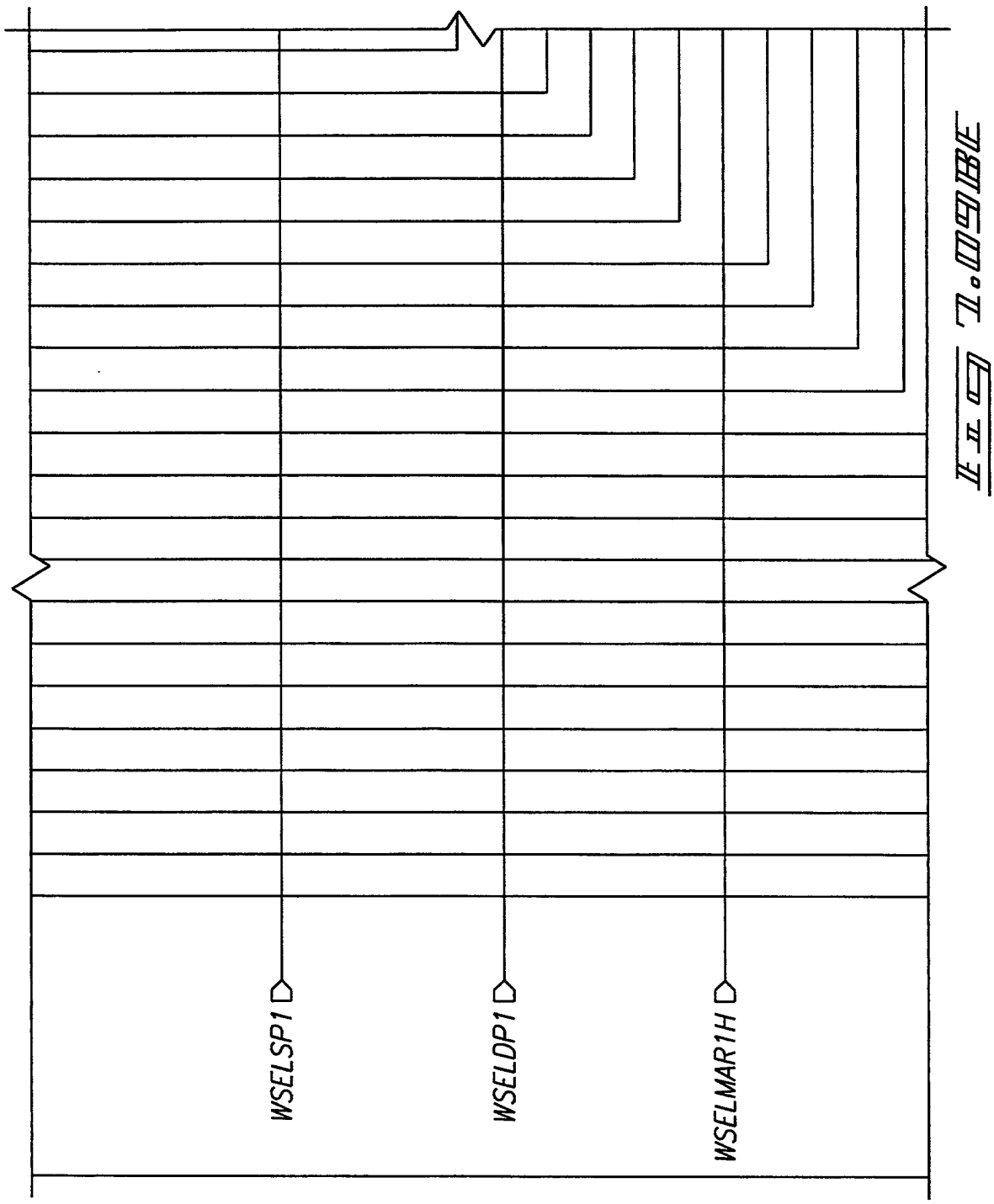


FIG 6.0MBIT

US005962956A

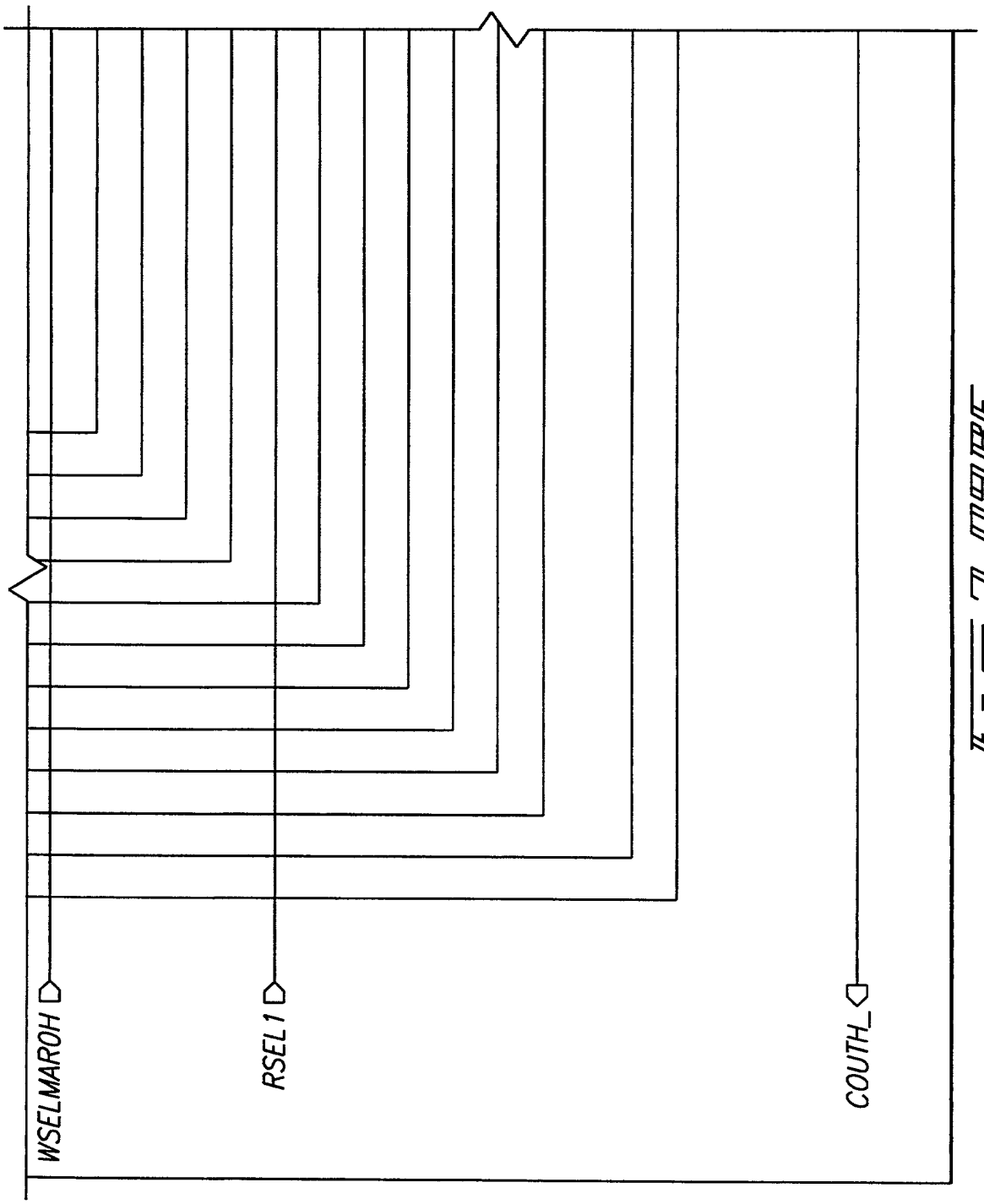


FIG 1.0948F

EP 0 290 228 B1

7.0901AA	7.0901AB	7.0901AC	7.0901AD	7.0901AE
7.0901BA	7.0901BB	7.0901BC	7.0901BD	7.0901BE
7.0901CA	7.0901CB	7.0901CC	7.0901CD	7.0901CE

Fig 7.0901

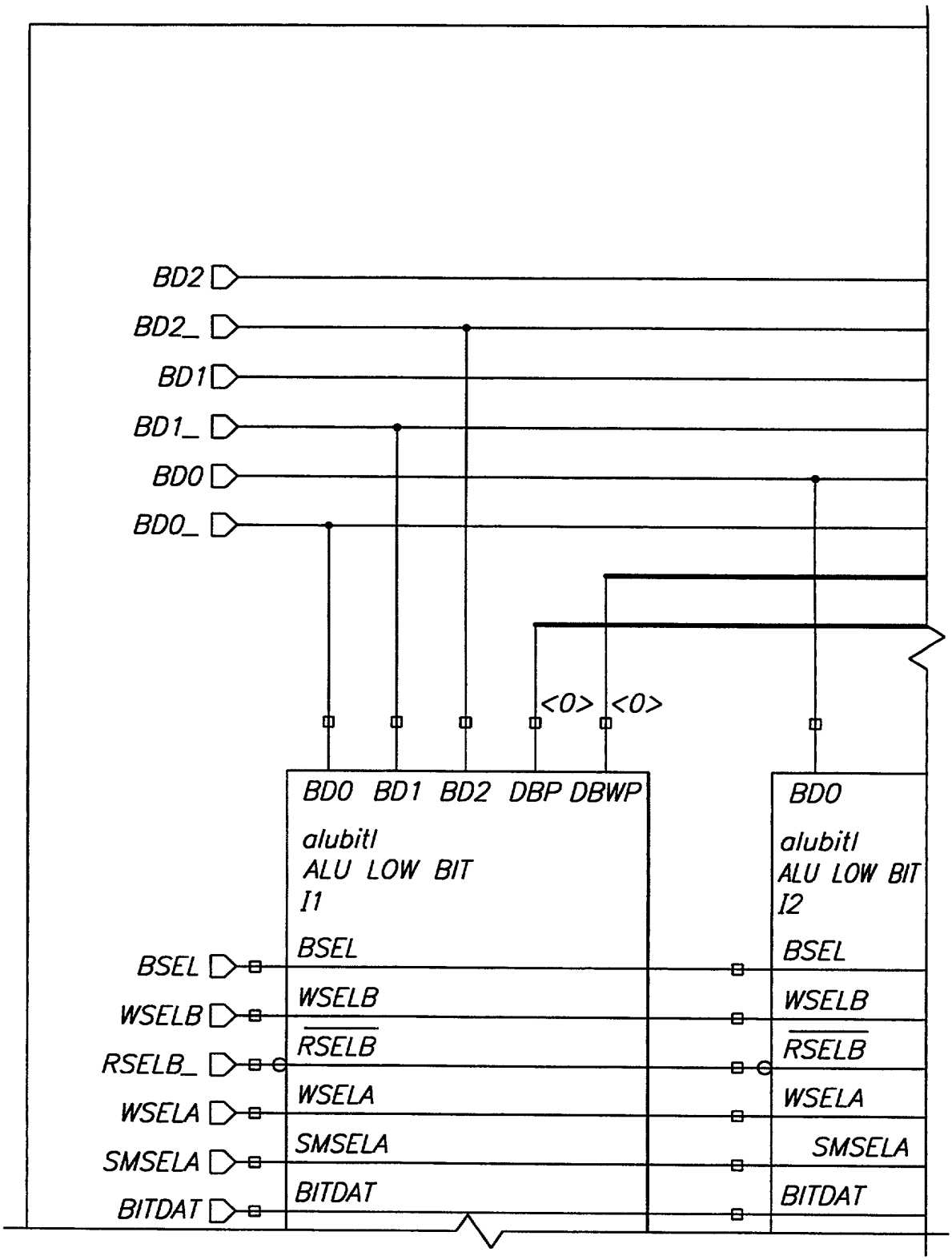


Fig 1.090118A

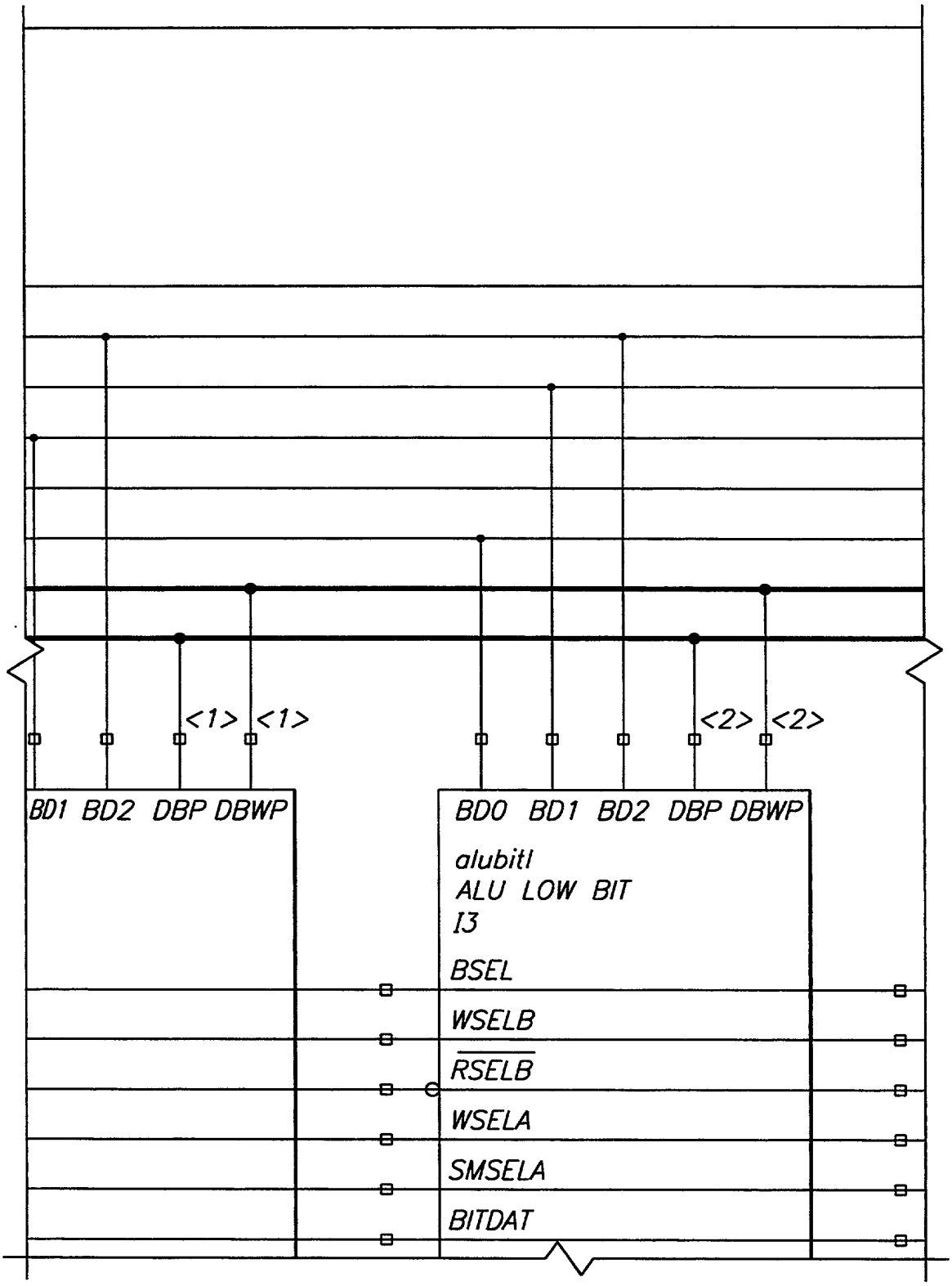

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BD0 BD1 BD2 DBP DBWP
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ALU LOW BIT
I3
BSEL
WSELB
RSELB
WSELA
SMSELA
BITDAT

Fig 1.0901AB

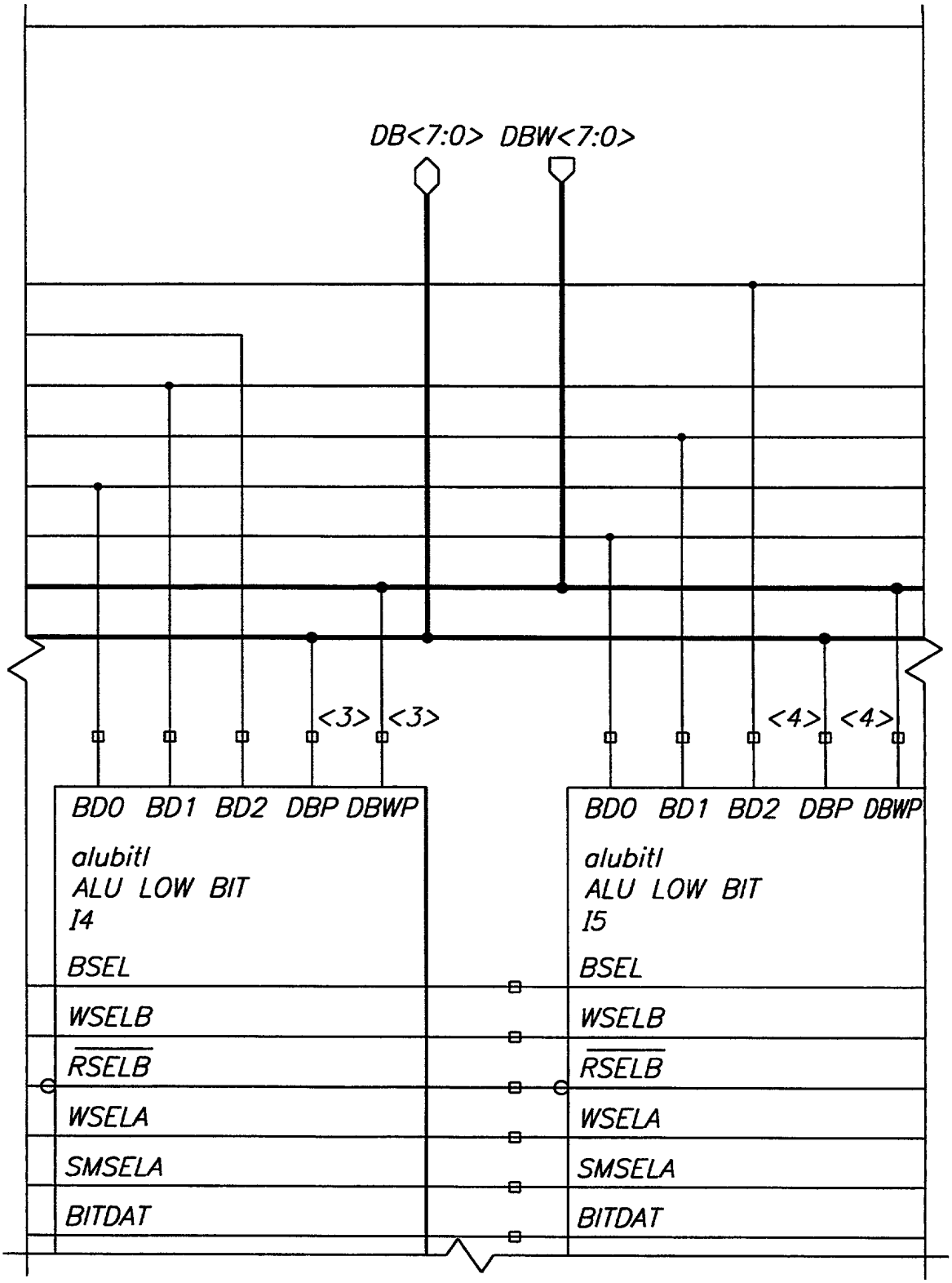


Fig 1.0901AC

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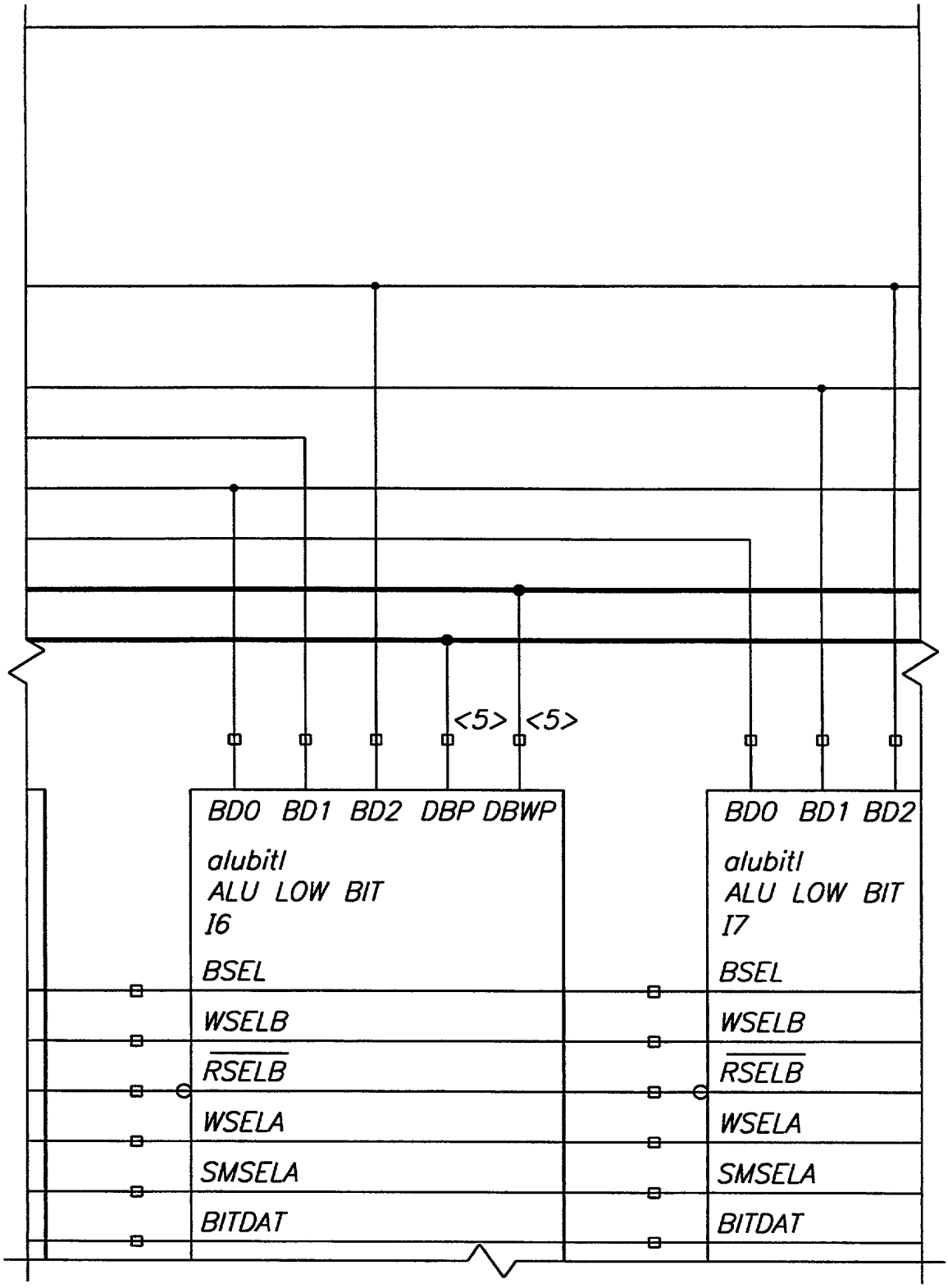


Fig 1.09010AD

Document Control - Restricted

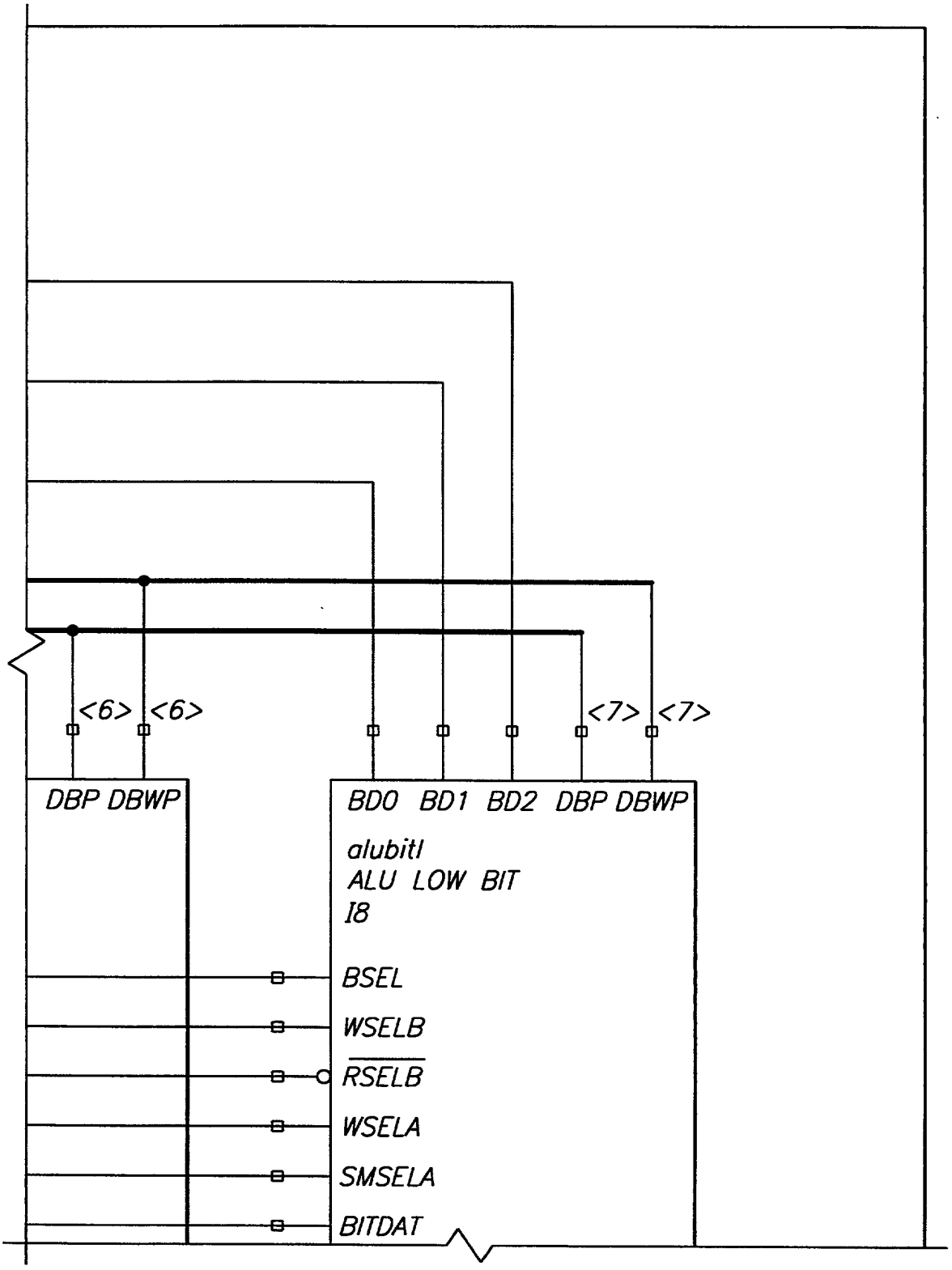

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Fig 3.0901AE

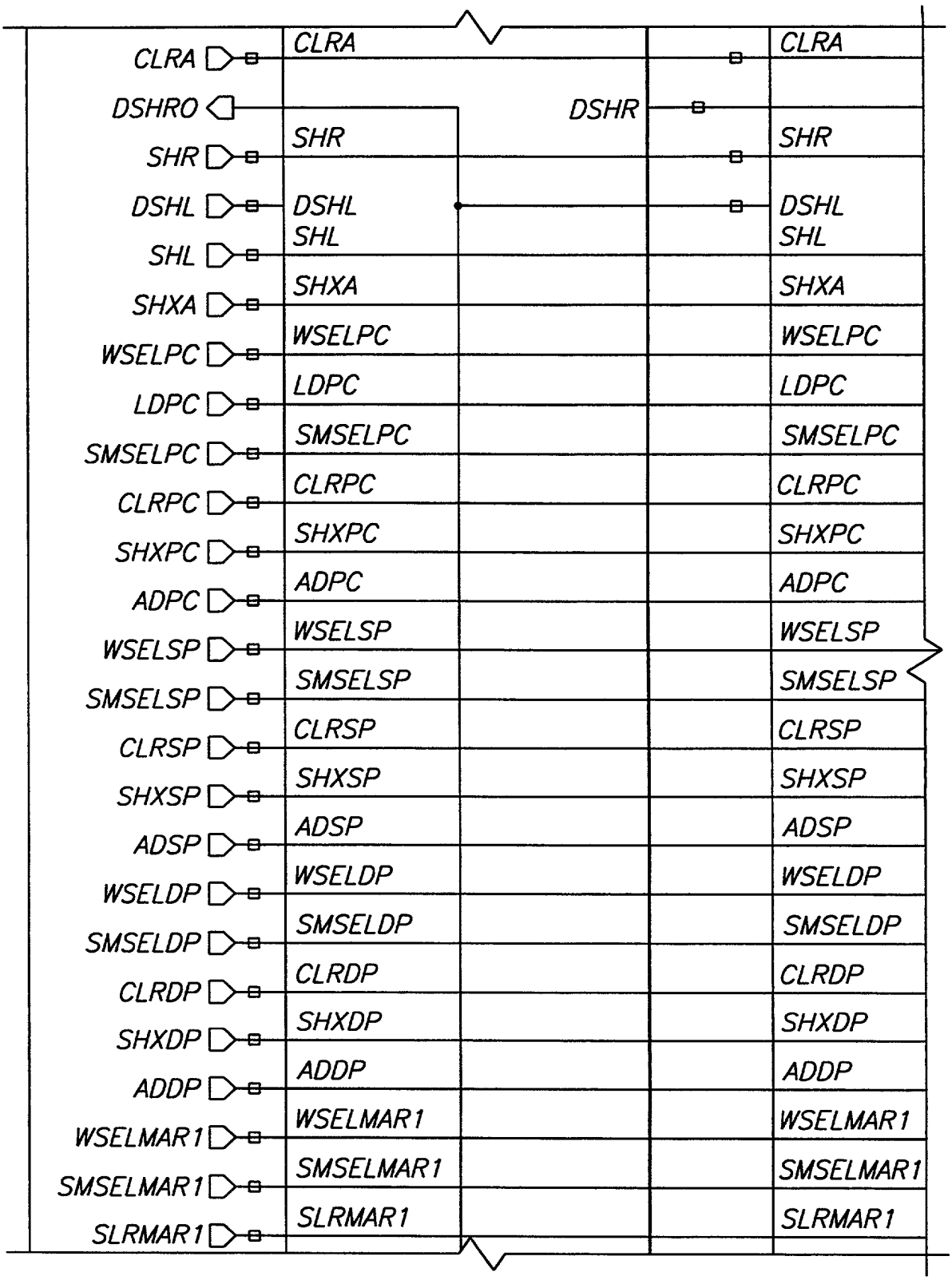

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SHR
DSHL
SHL
SHXA
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LDPC
SMSELPC
CLRPC
SHXPC
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CLRSP
SHXSP
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DSHR

Fig 1.0901BA

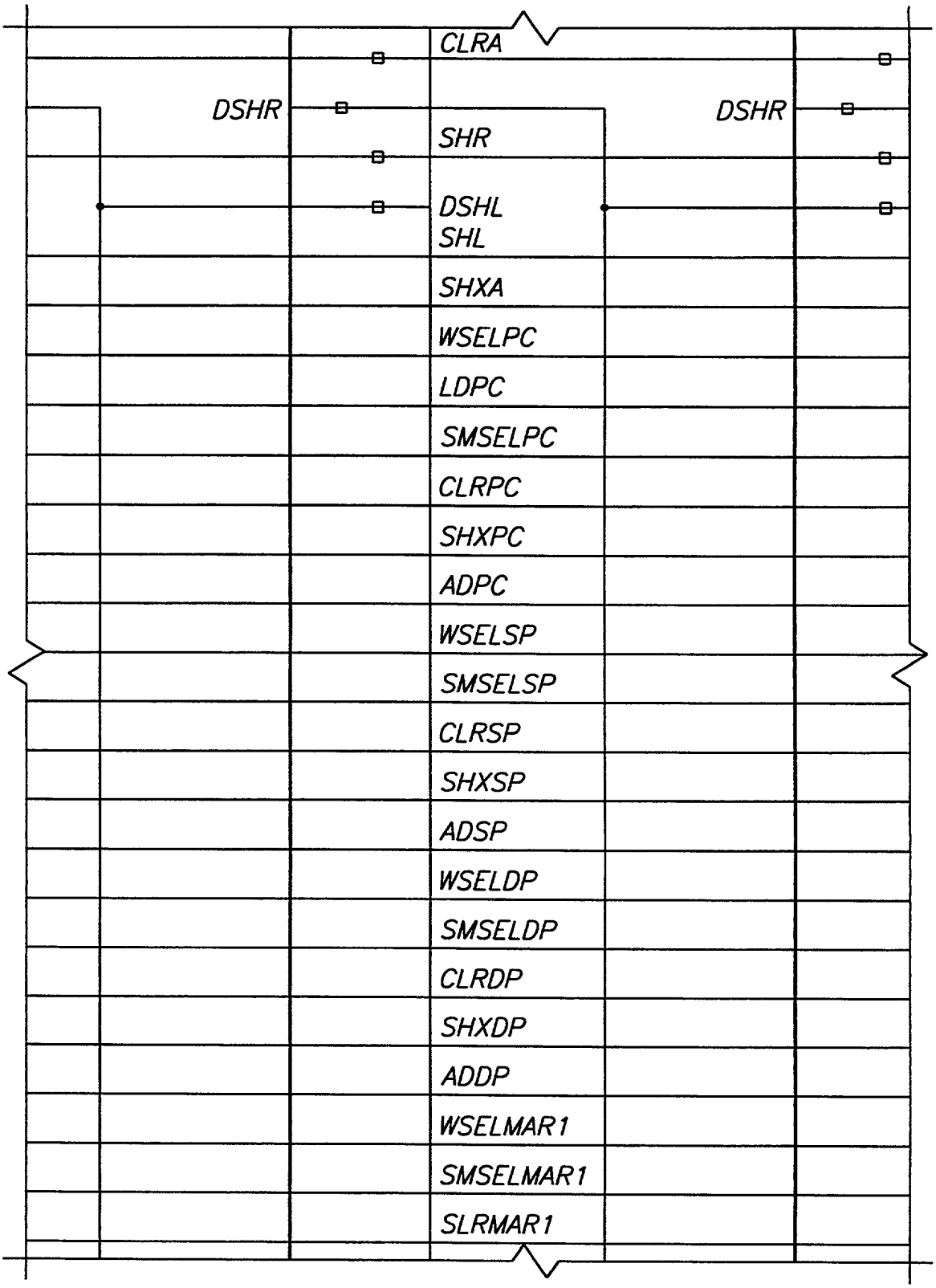


Fig 1.0900188

US5276895

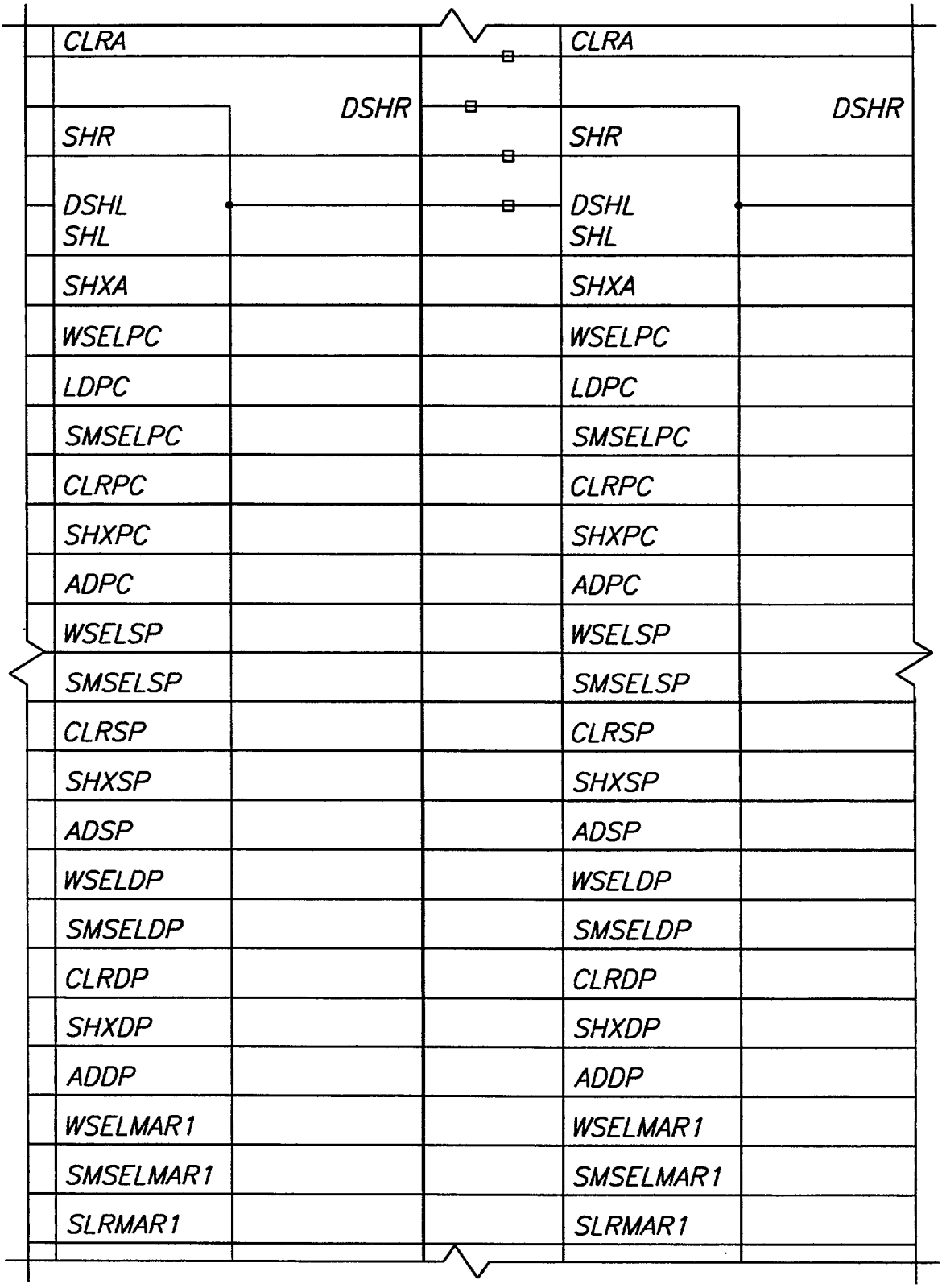
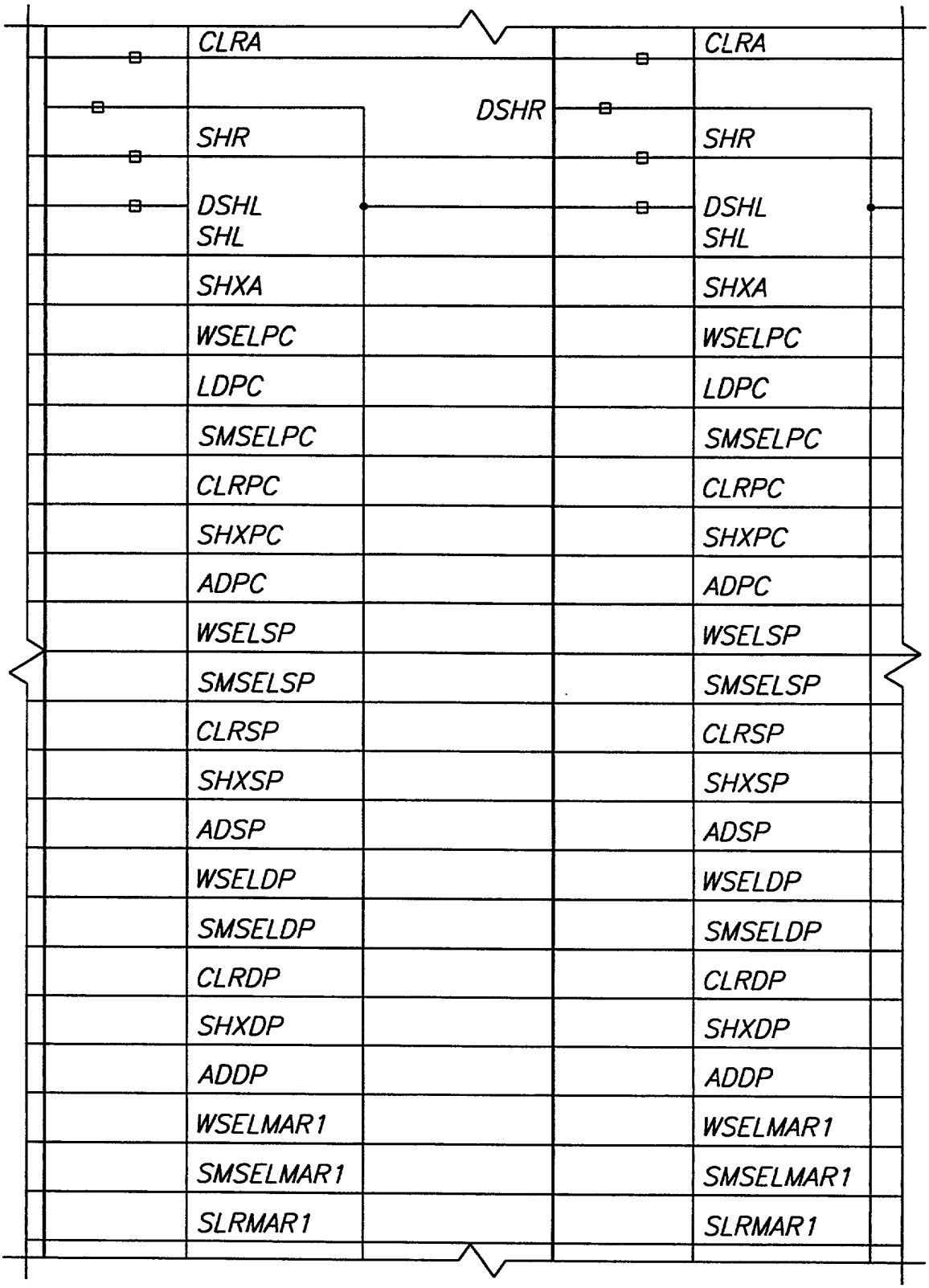


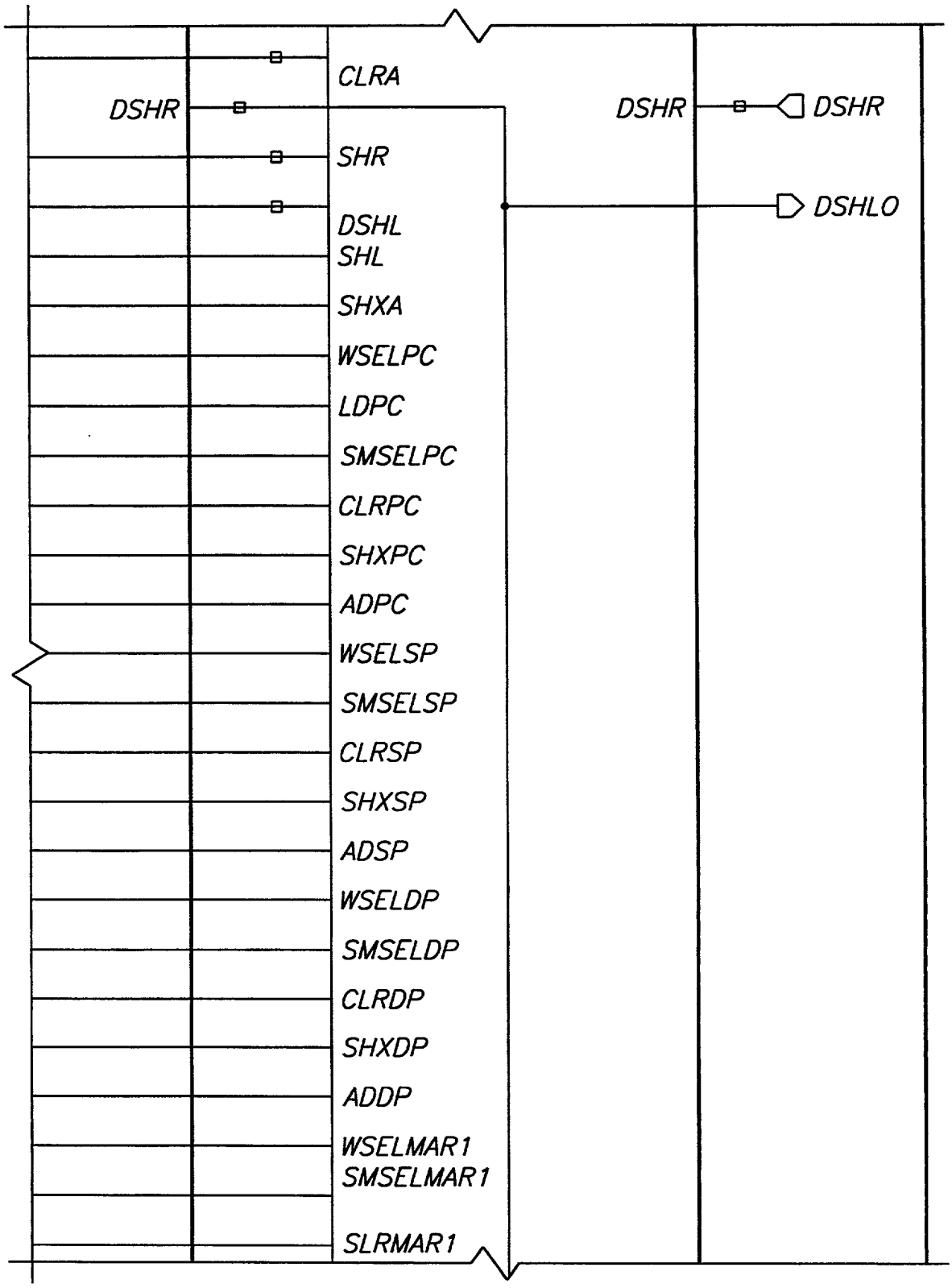
Fig 1.090108

US 4,959,795

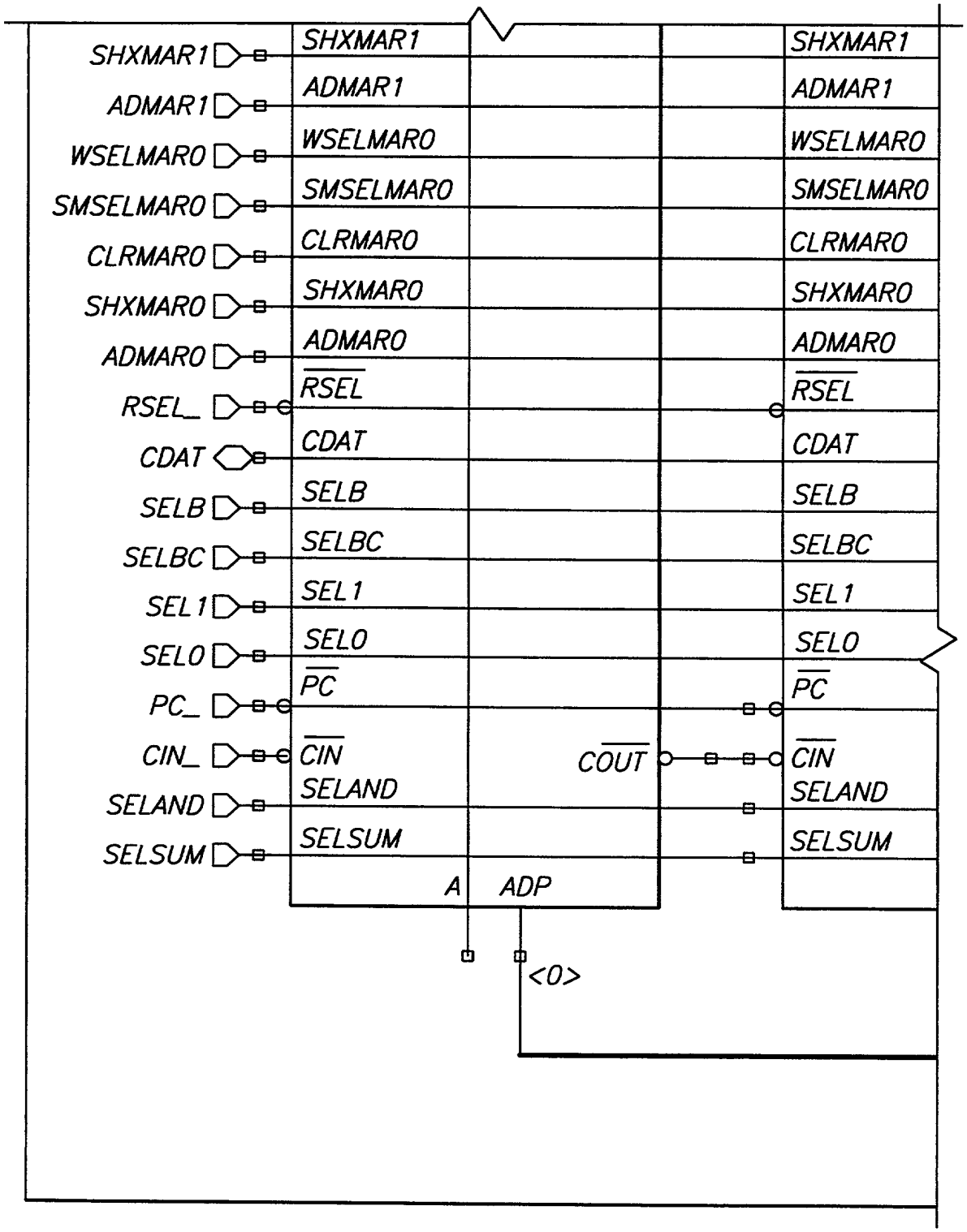


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5962-9562205QTA


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SHR
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DSHL
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SMSELPC
CLRPC
SHXPC
ADPC
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SMSELDP
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WSELMAR1
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US5179695


SHXMAR1
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CLRMAR0
SHXMAR0
ADMAR0
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CDAT
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SELBC
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SEL0
PC_
CIN_
SELAND
SELSUM
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ADMAR1
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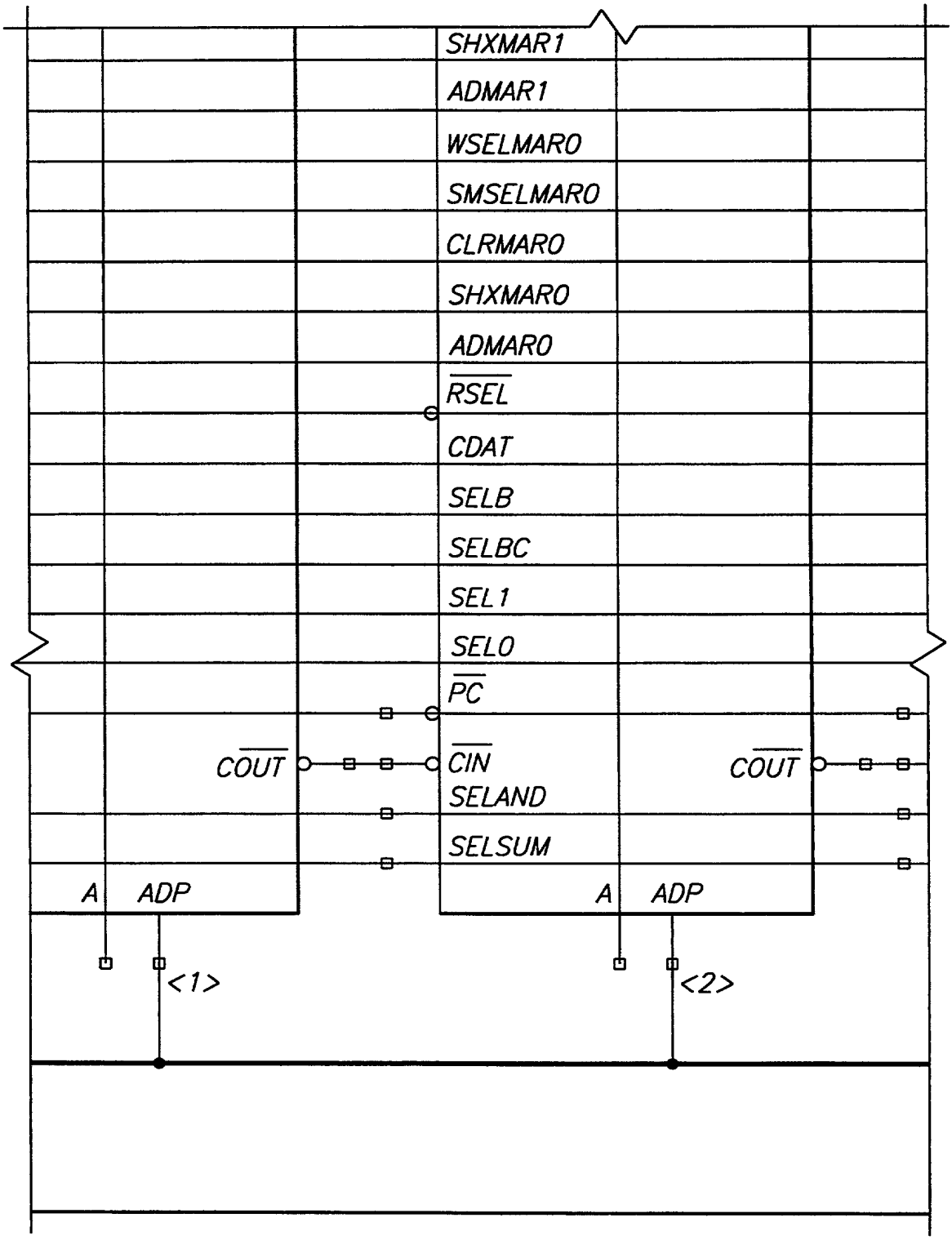

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Fig 7.09018B

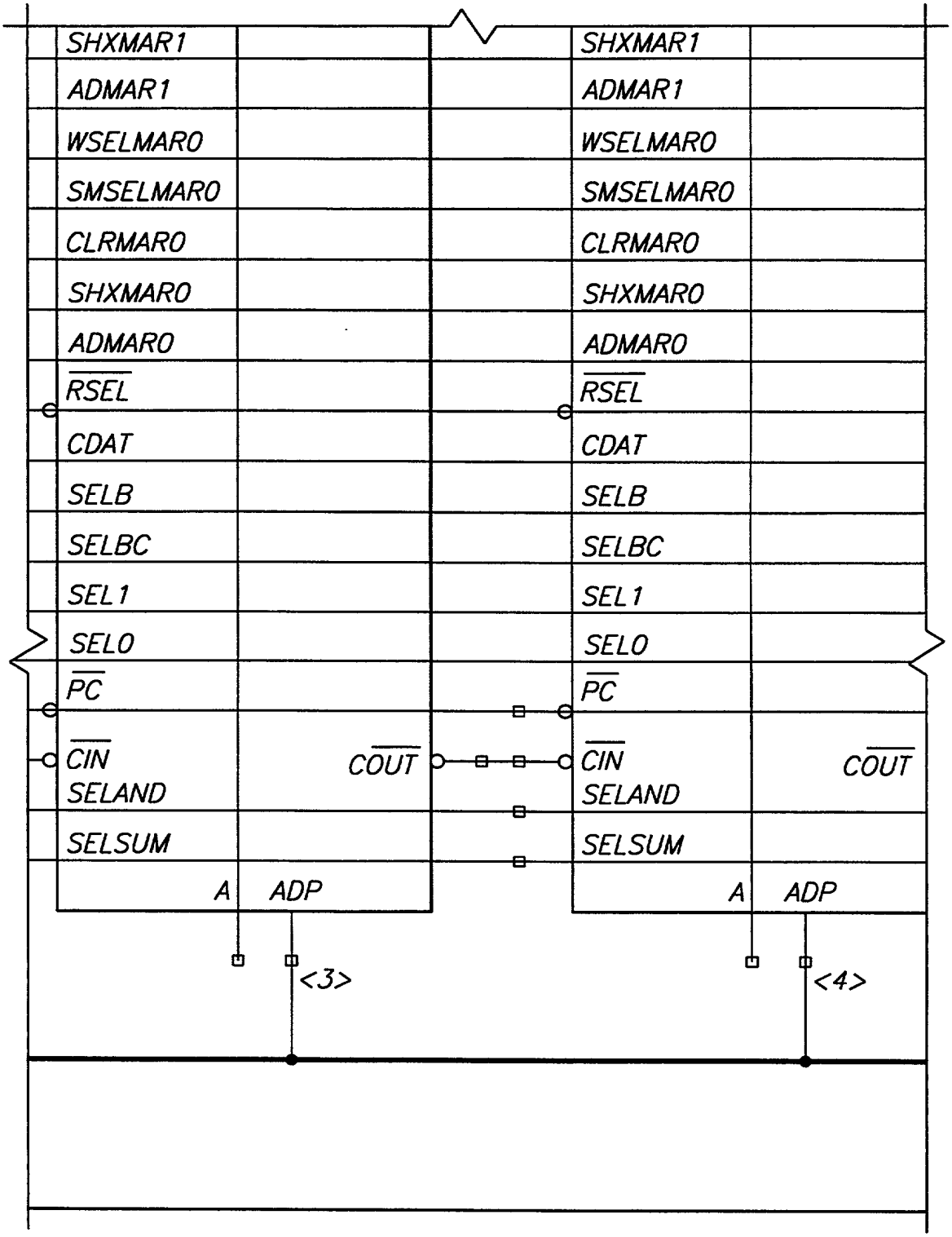

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Fig 1.090116

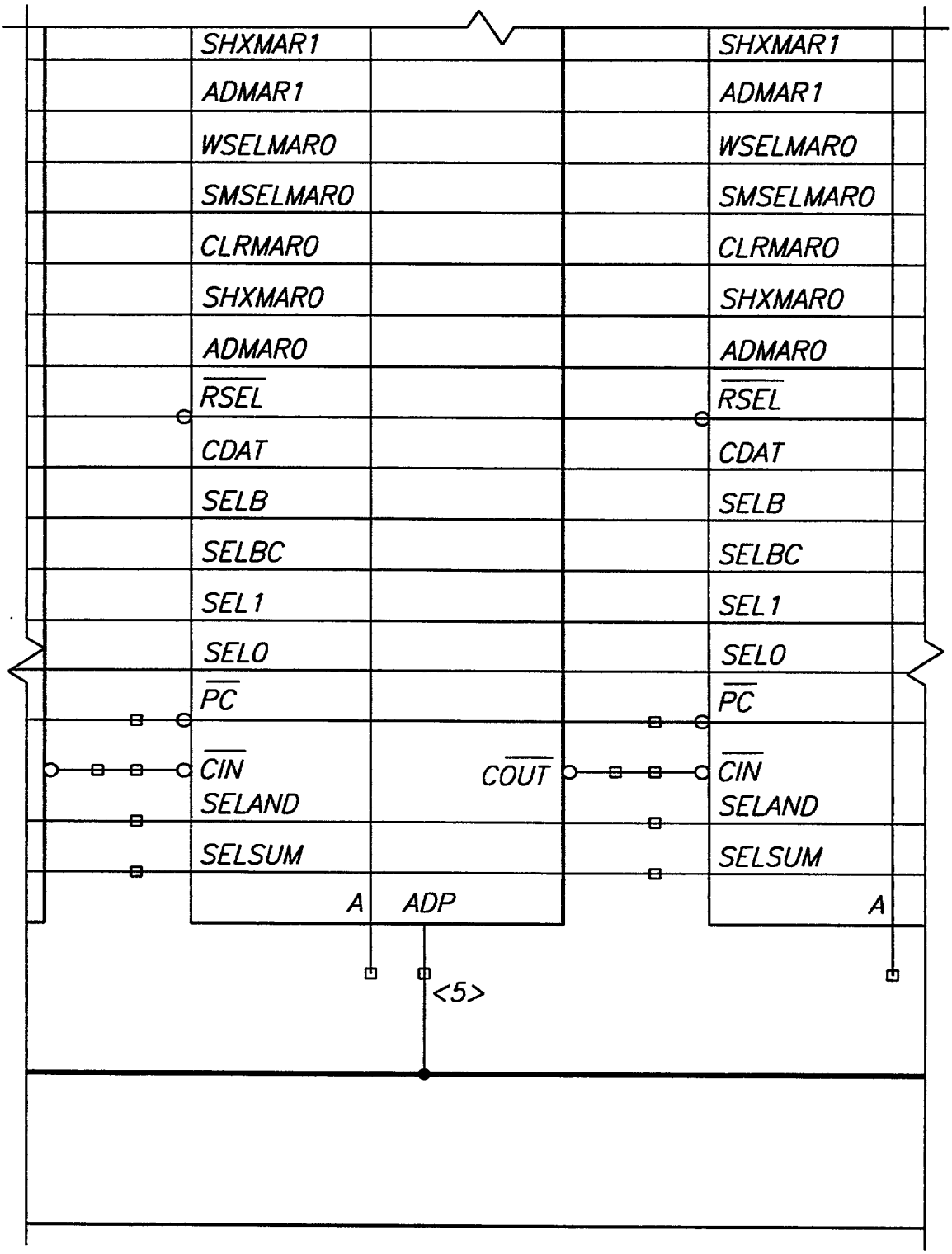

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ADMARO
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CDAT
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PC
CIN
SELAND
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A
ADP
COUT
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SELAND
SELSUM
A

Fig 1.090108

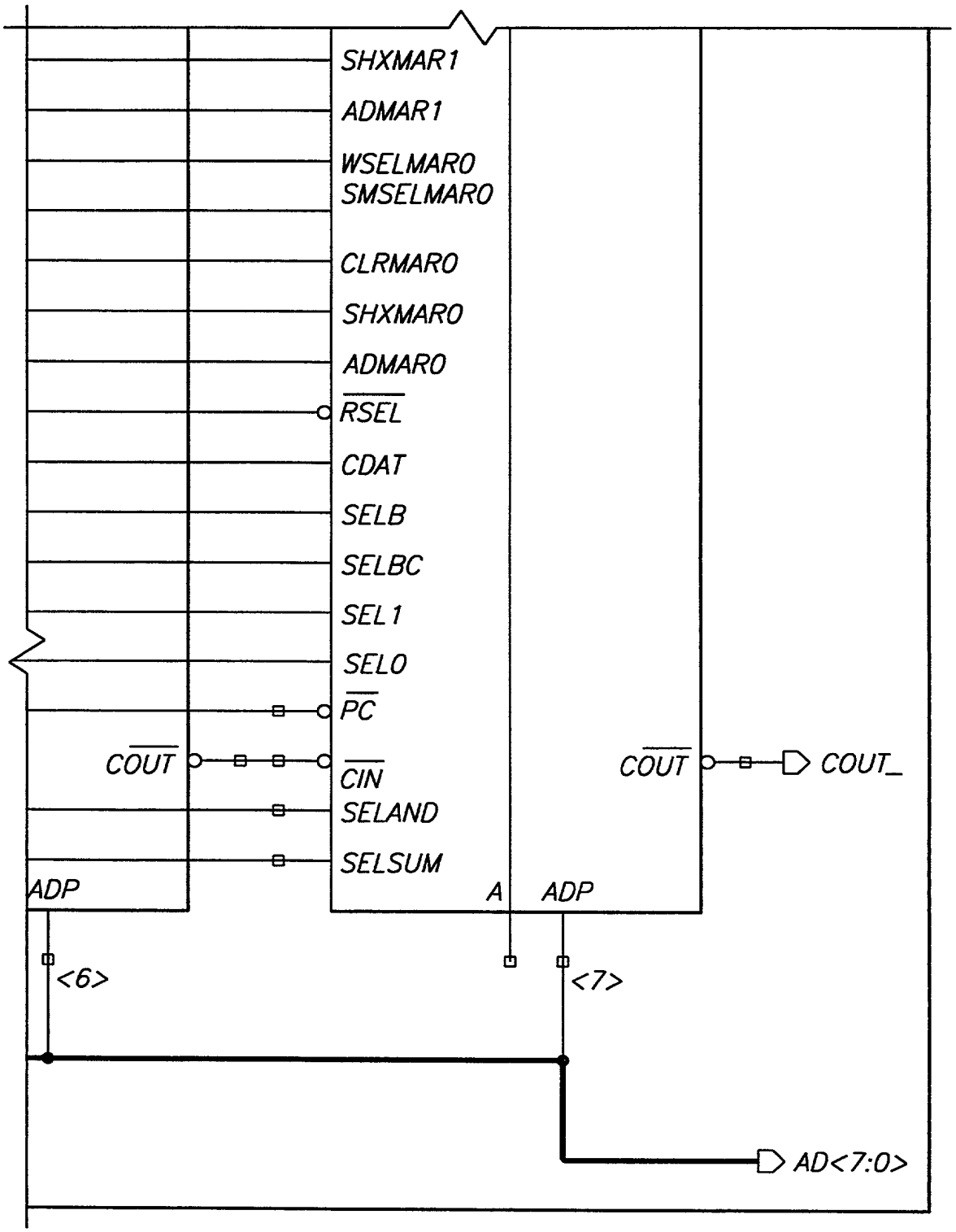


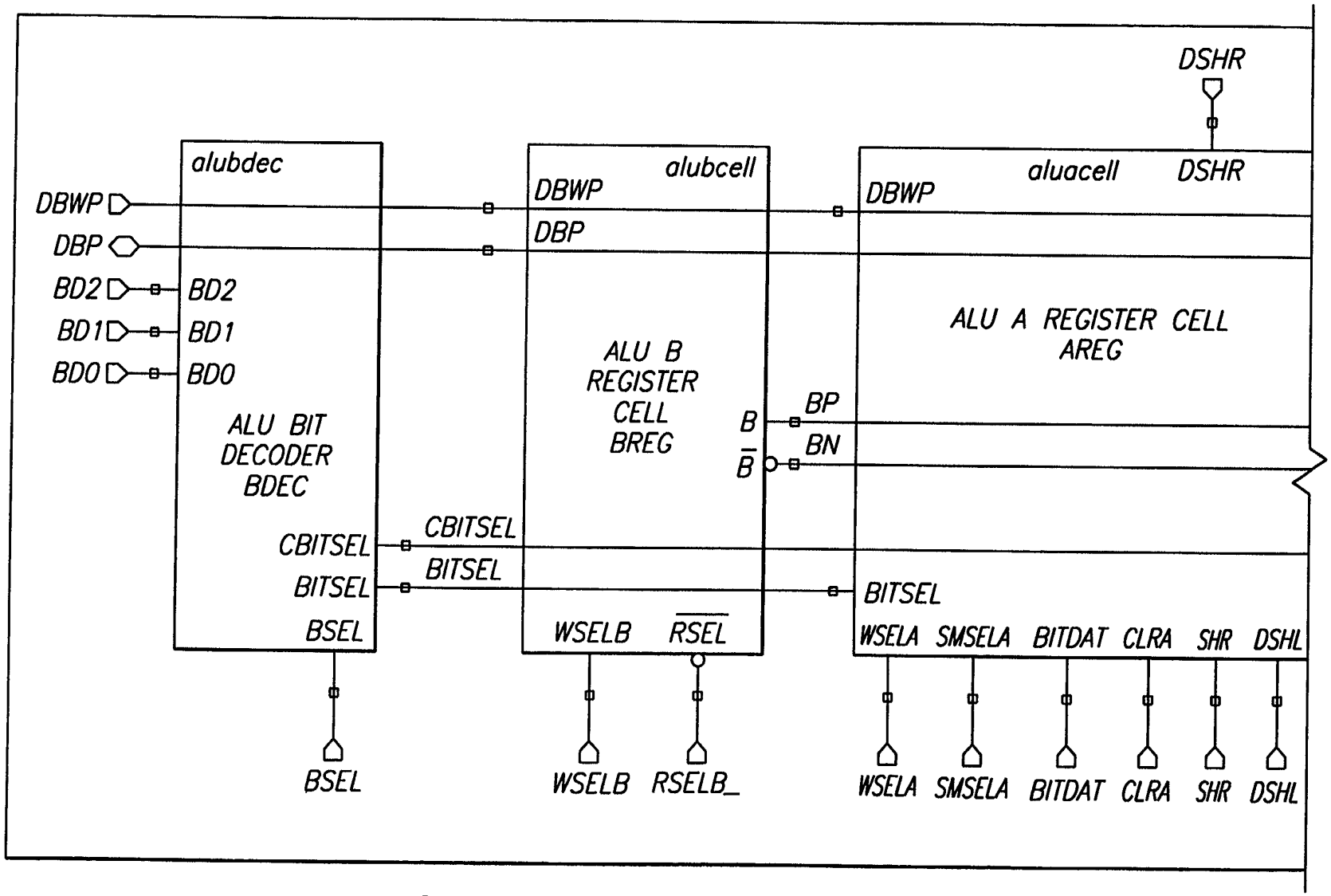
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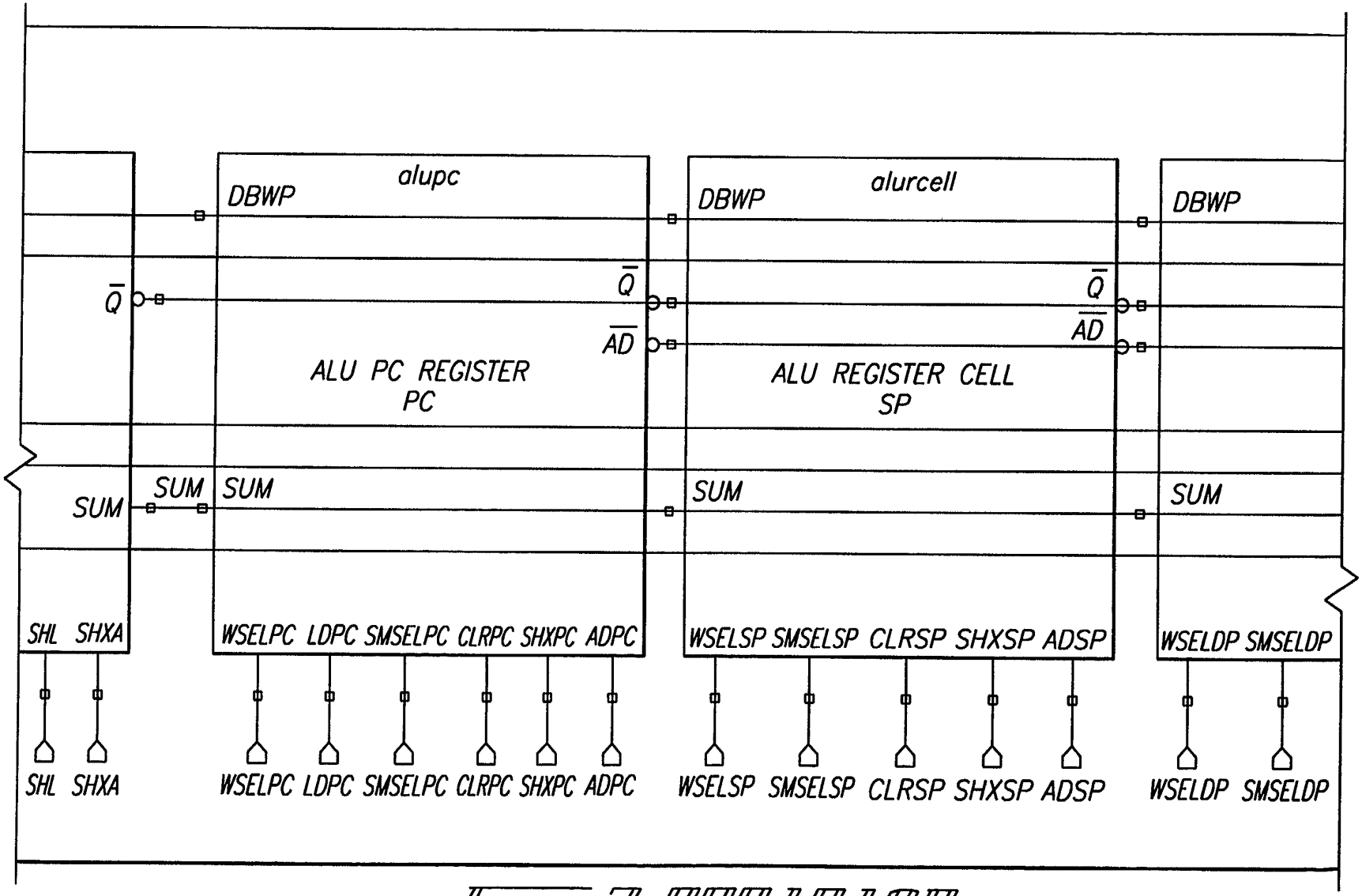
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Fig 7.090101



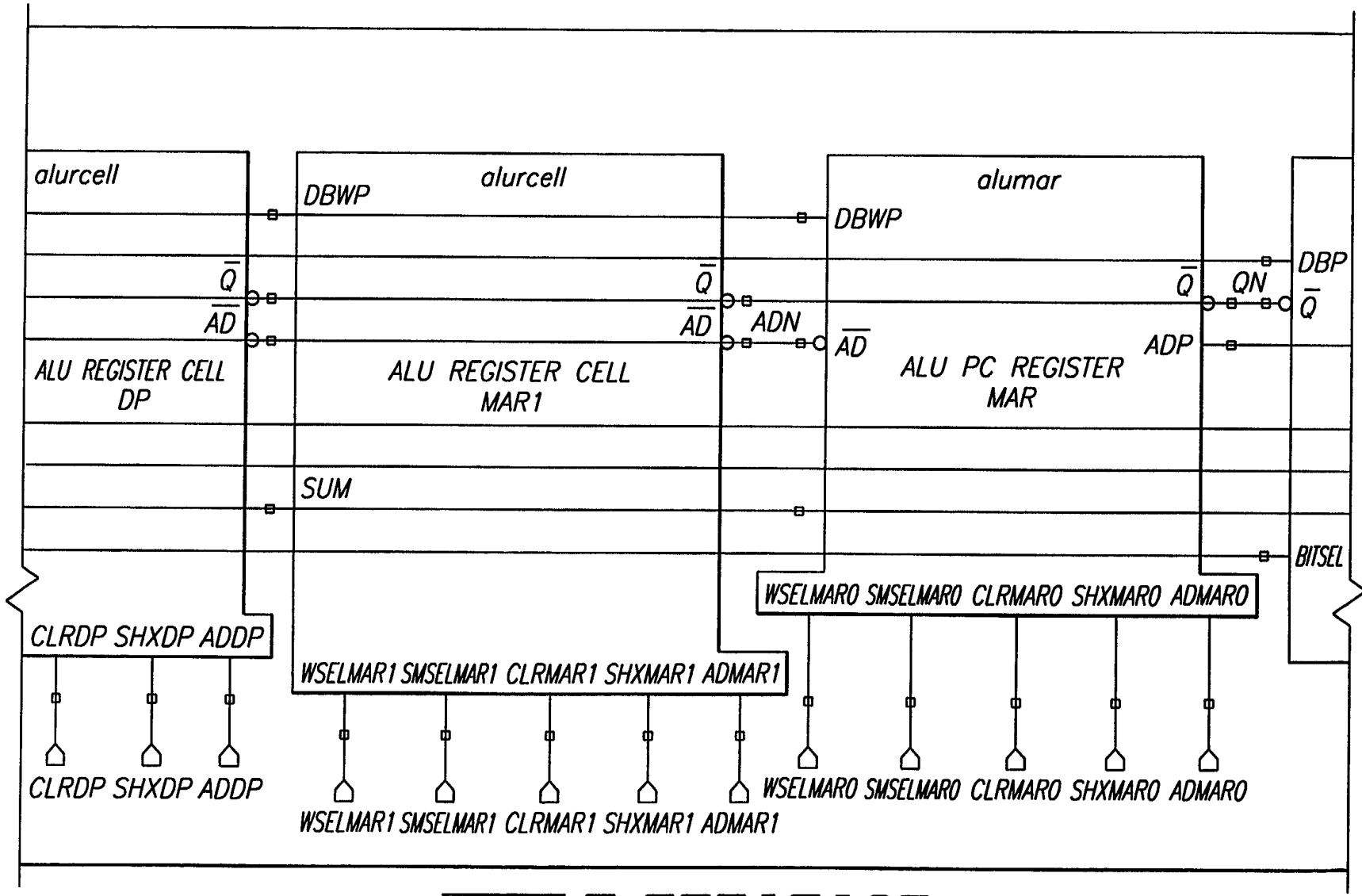
865/3273

Fig 1.090100AA



866/3273

Fig 1.090101AB



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Fig 1.090101AC

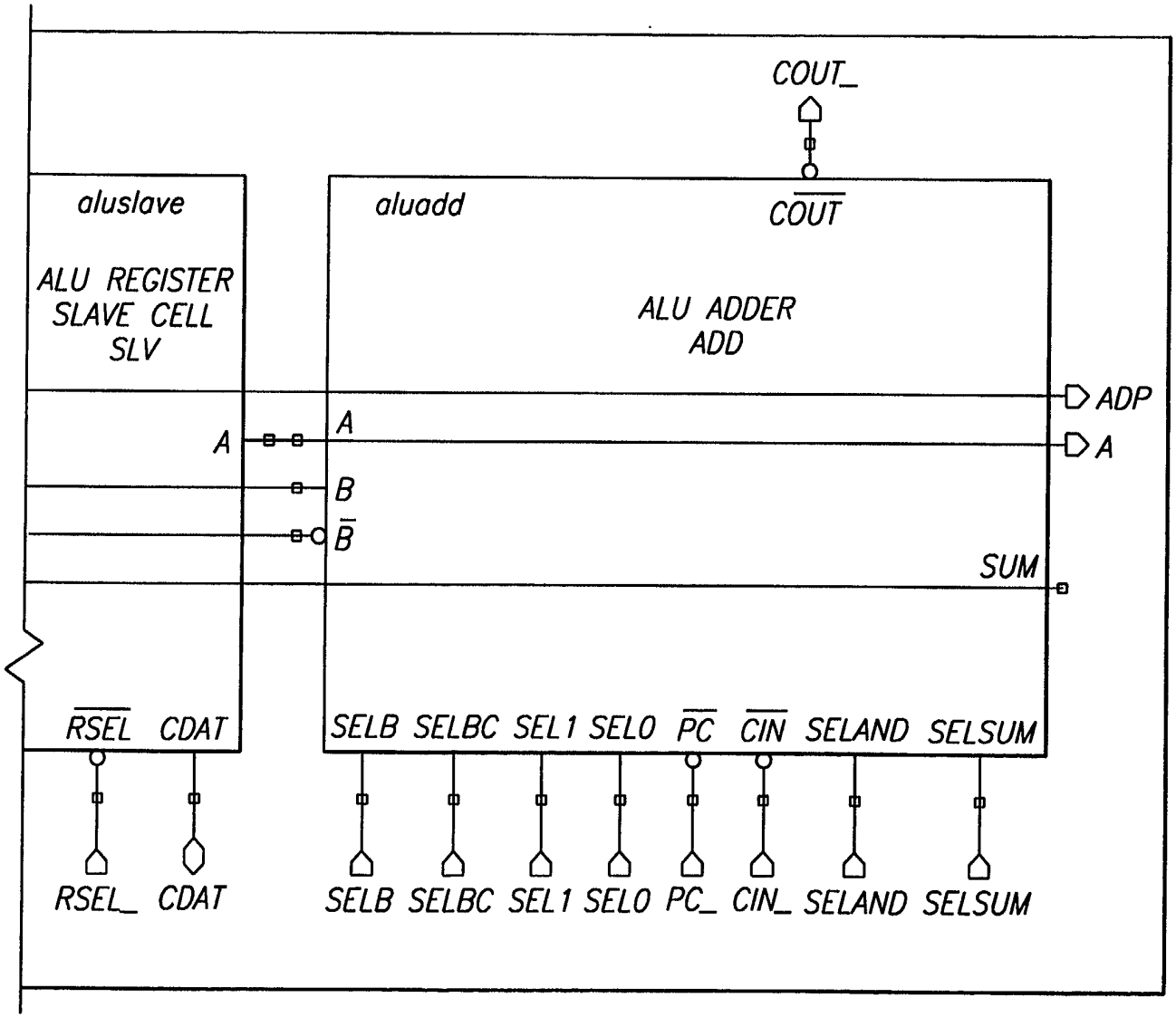
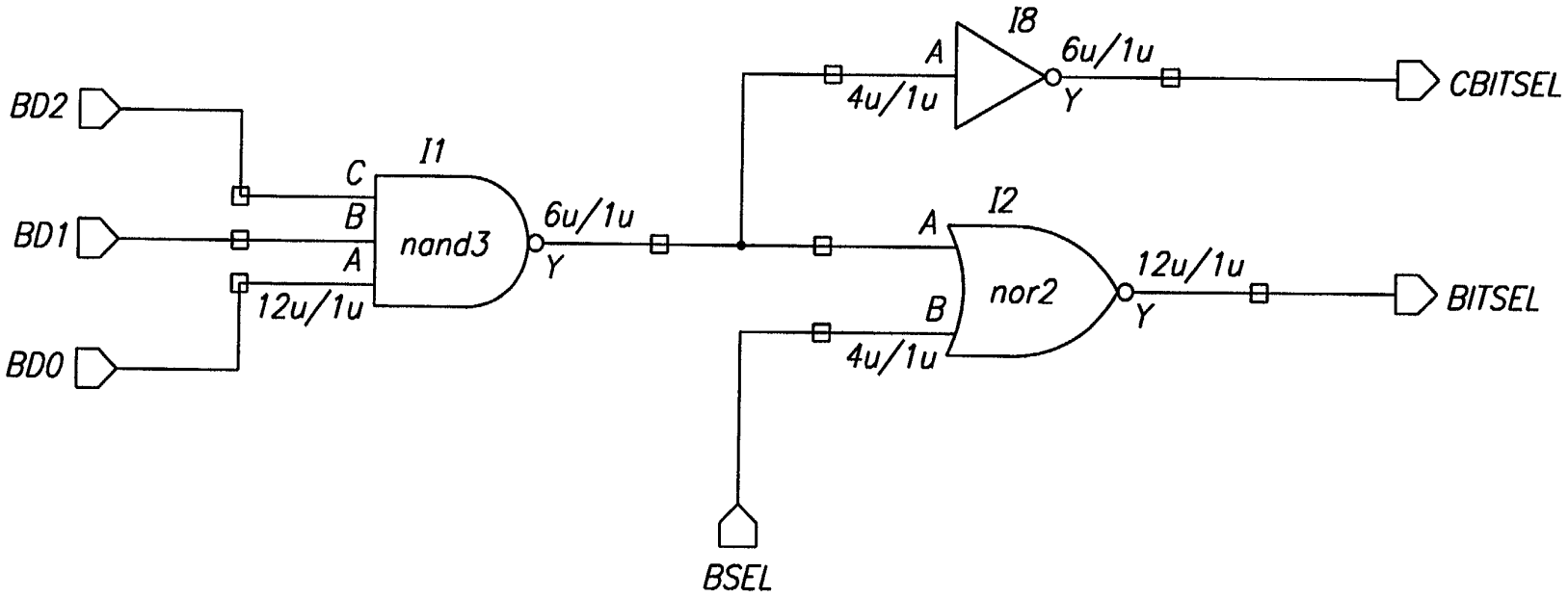


Fig 1.090110AD



869/3273

Fig 1.090100101

EP 0 290 860

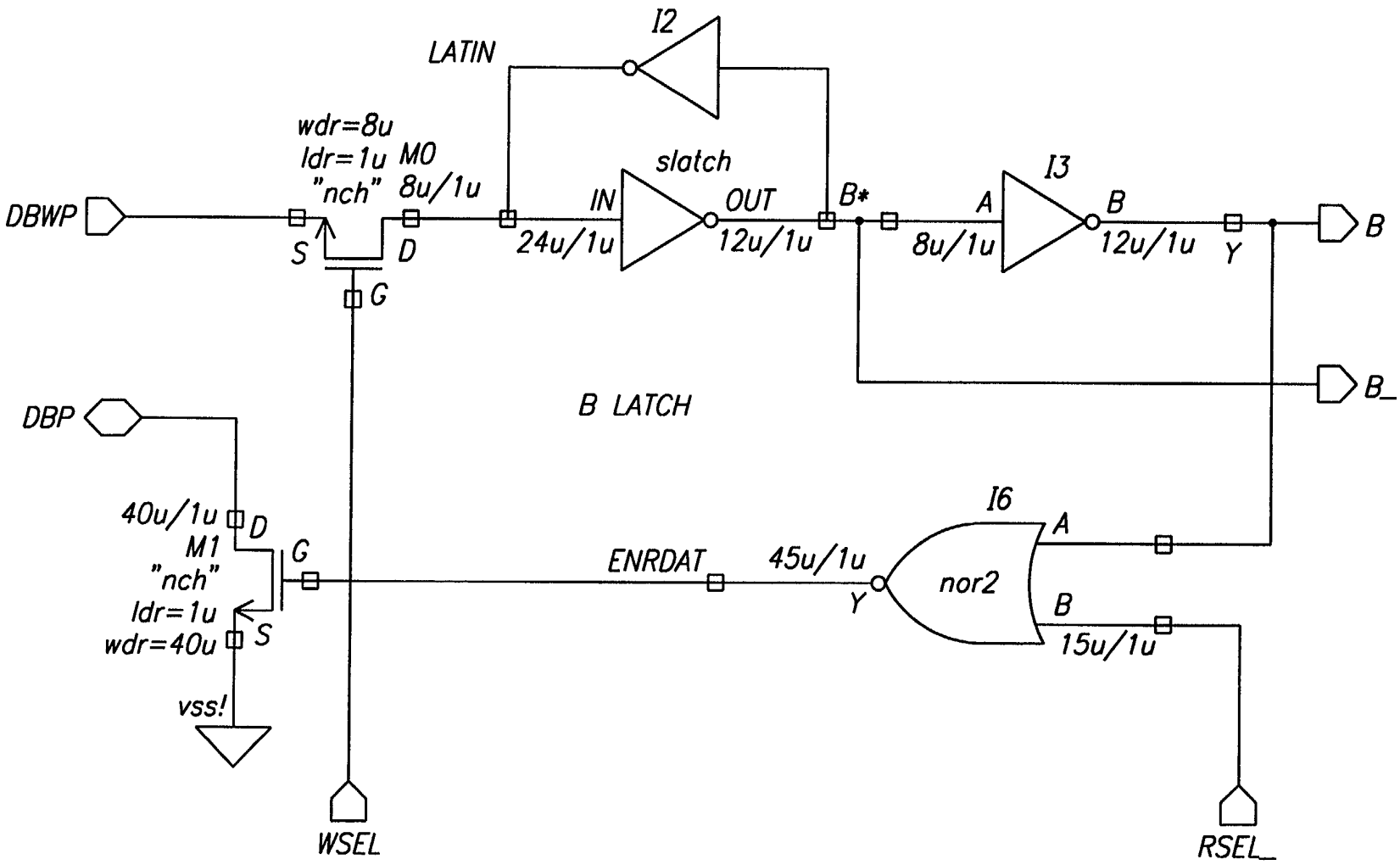


Fig 1.090100102

870/3273

871/3273

EASTWOOD ST

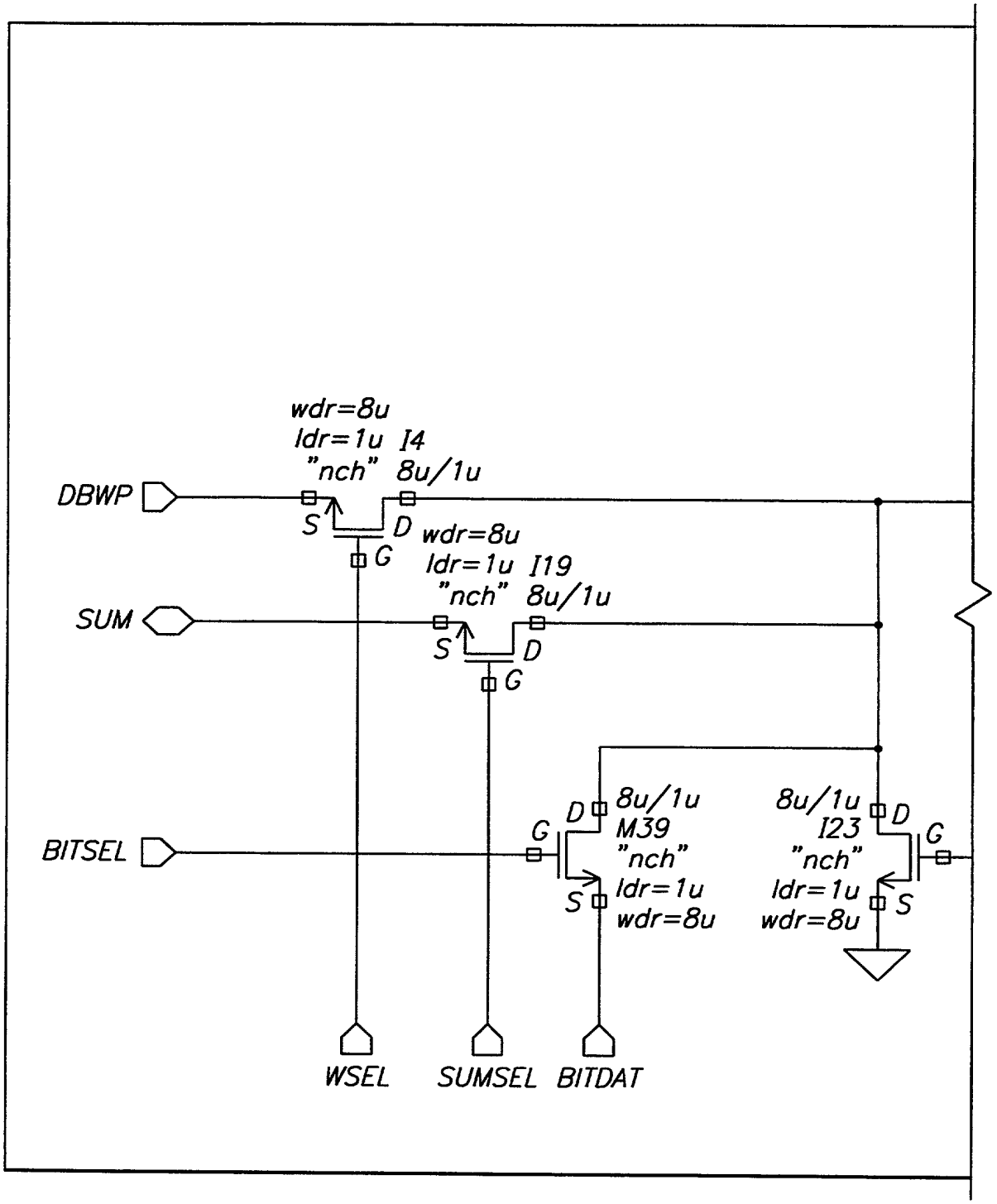


Fig 1.090101030AA

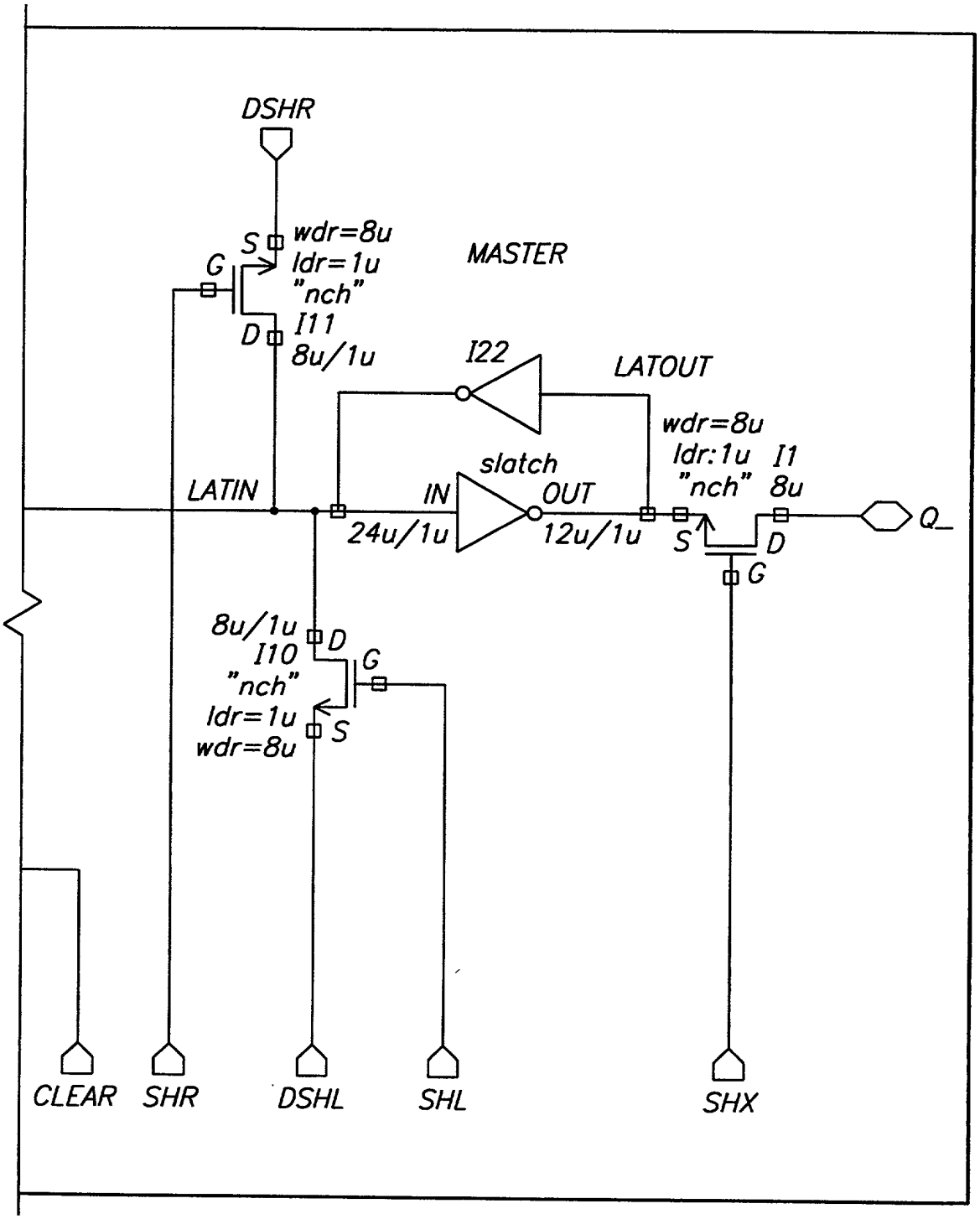


Fig 1.090101030AB

TD1190 E9032860

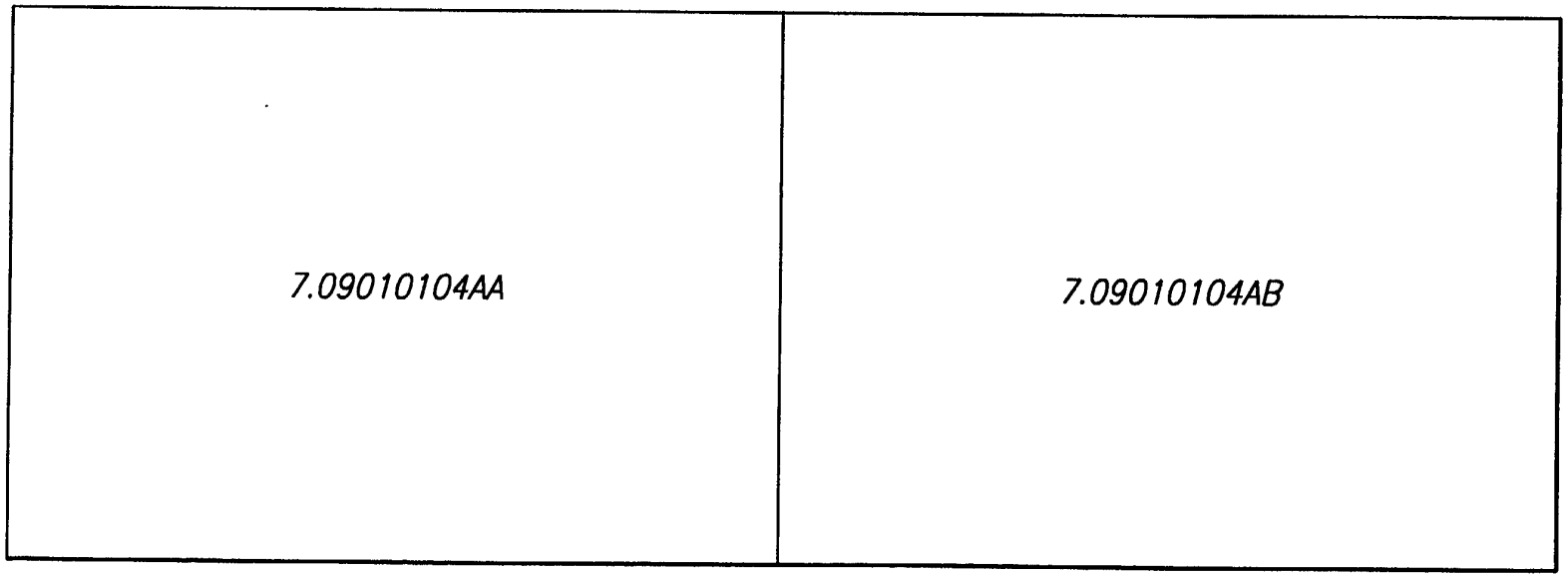


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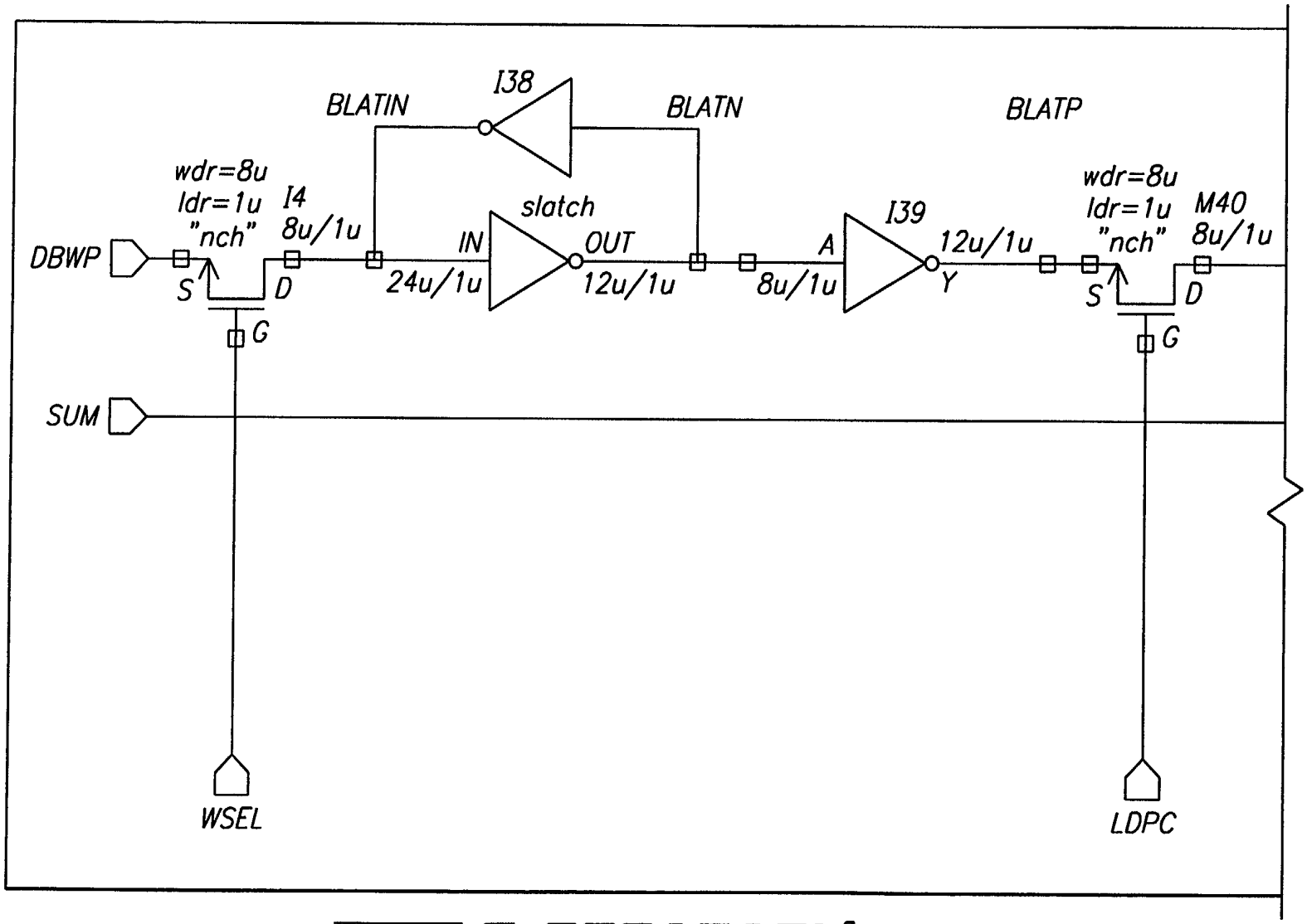


Fig 1.090100104AA

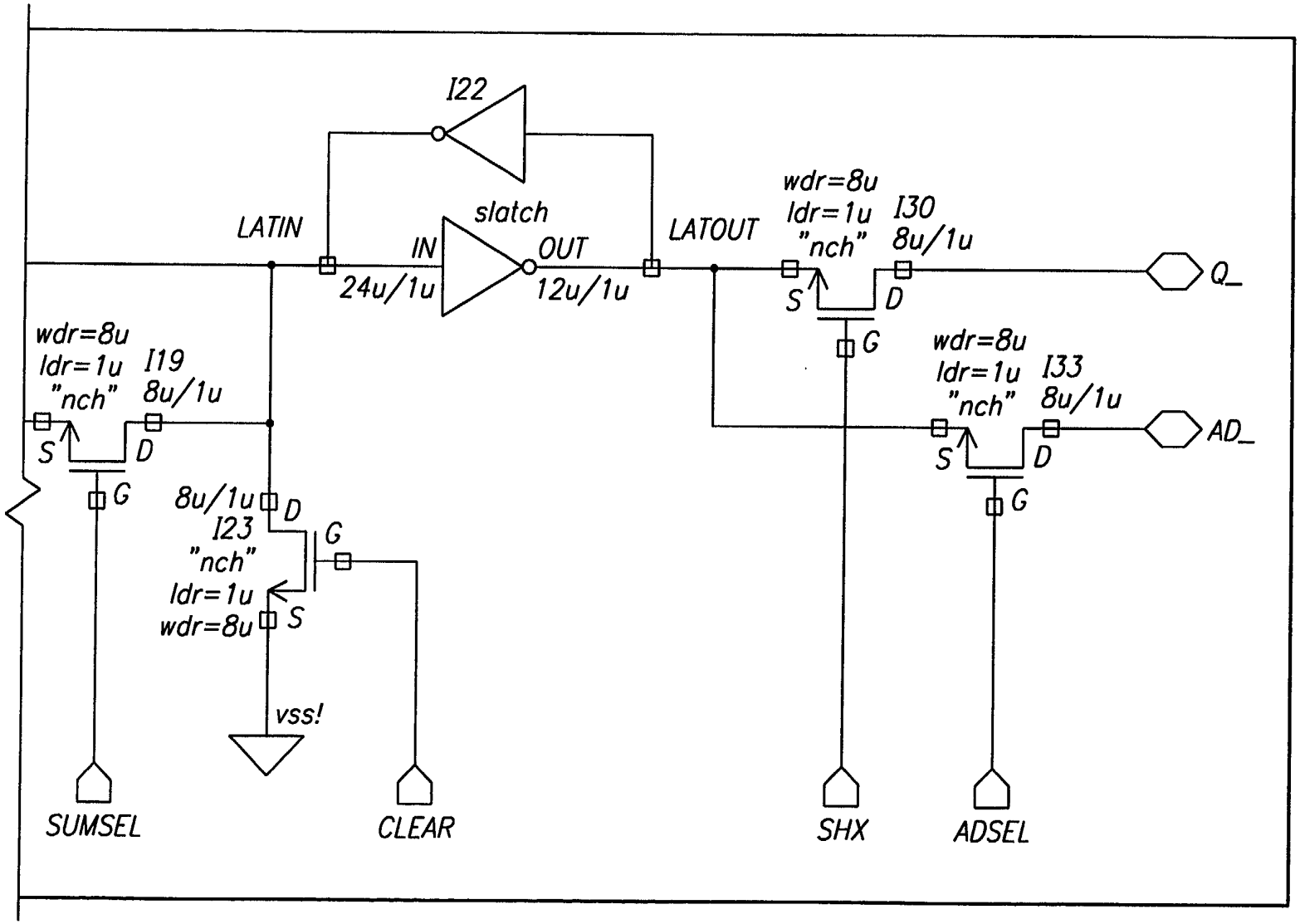


Fig 1.0990101041AB

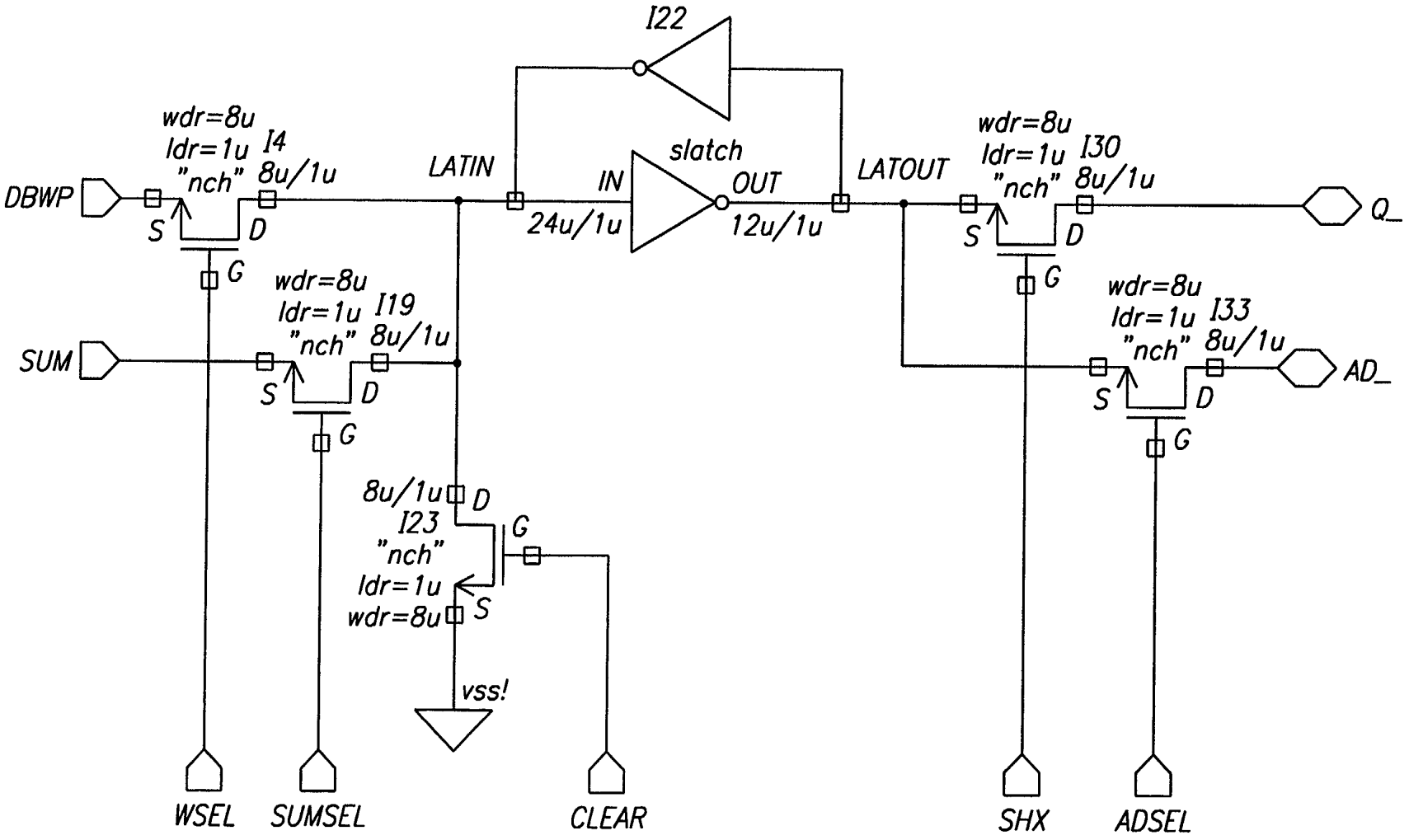

I22
wdr=8u
ldr=1u
"nch"
I4
8u/1u
DBWP
S
D
G
LATIN
IN
slatch
OUT
24u/1u
12u/1u
LATOUT
wdr=8u
ldr=1u
"nch"
I30
8u/1u
Q_
wdr=8u
ldr=1u
"nch"
I19
8u/1u
SUM
wdr=8u
ldr=1u
"nch"
I33
8u/1u
AD_
8u/1u
I23
"nch"
ldr=1u
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vss!
WSEL
SUMSEL
CLEAR
SHX
ADSEL

Fig 1.090105

878/3273

SO 7.09010106

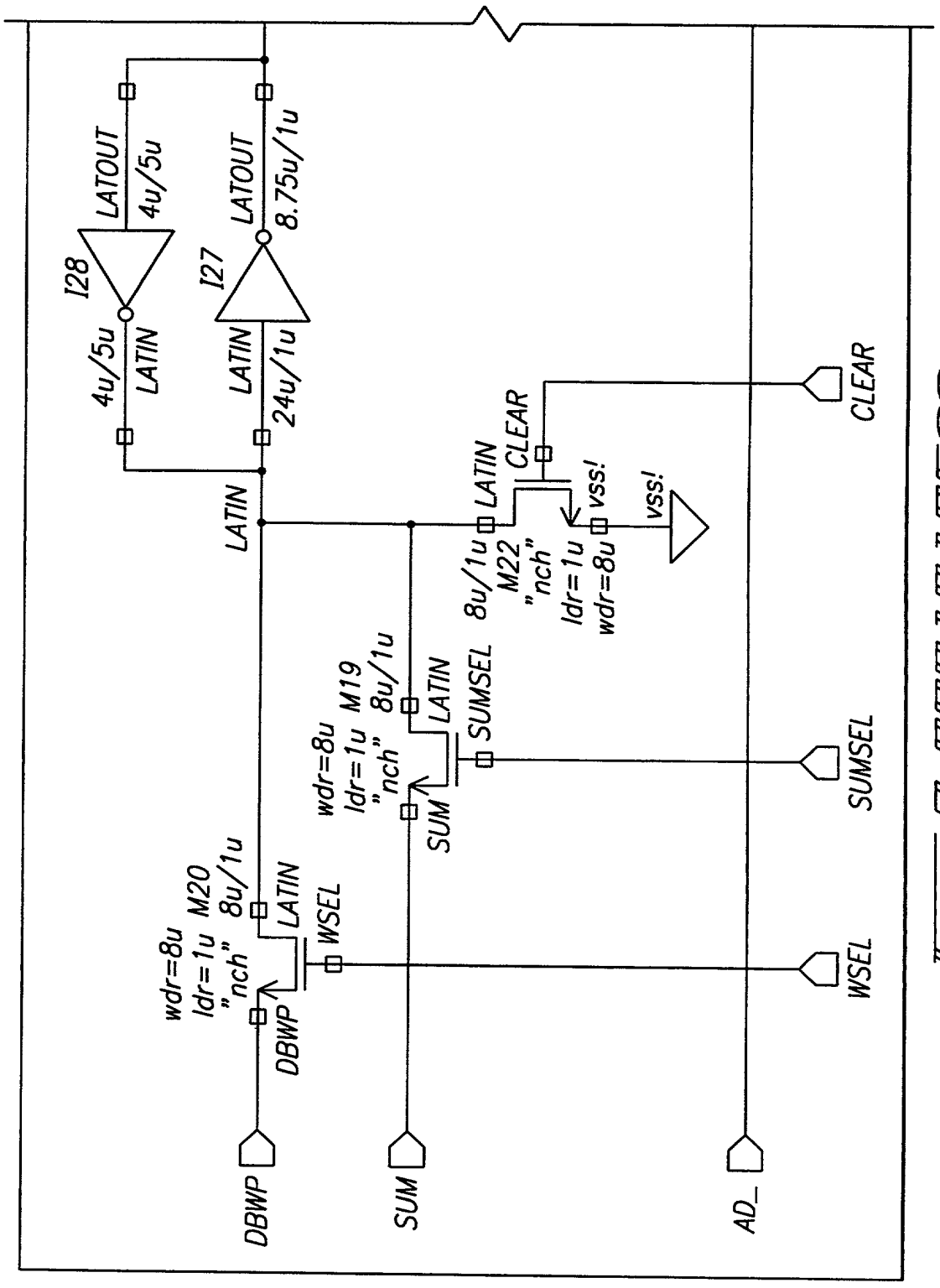
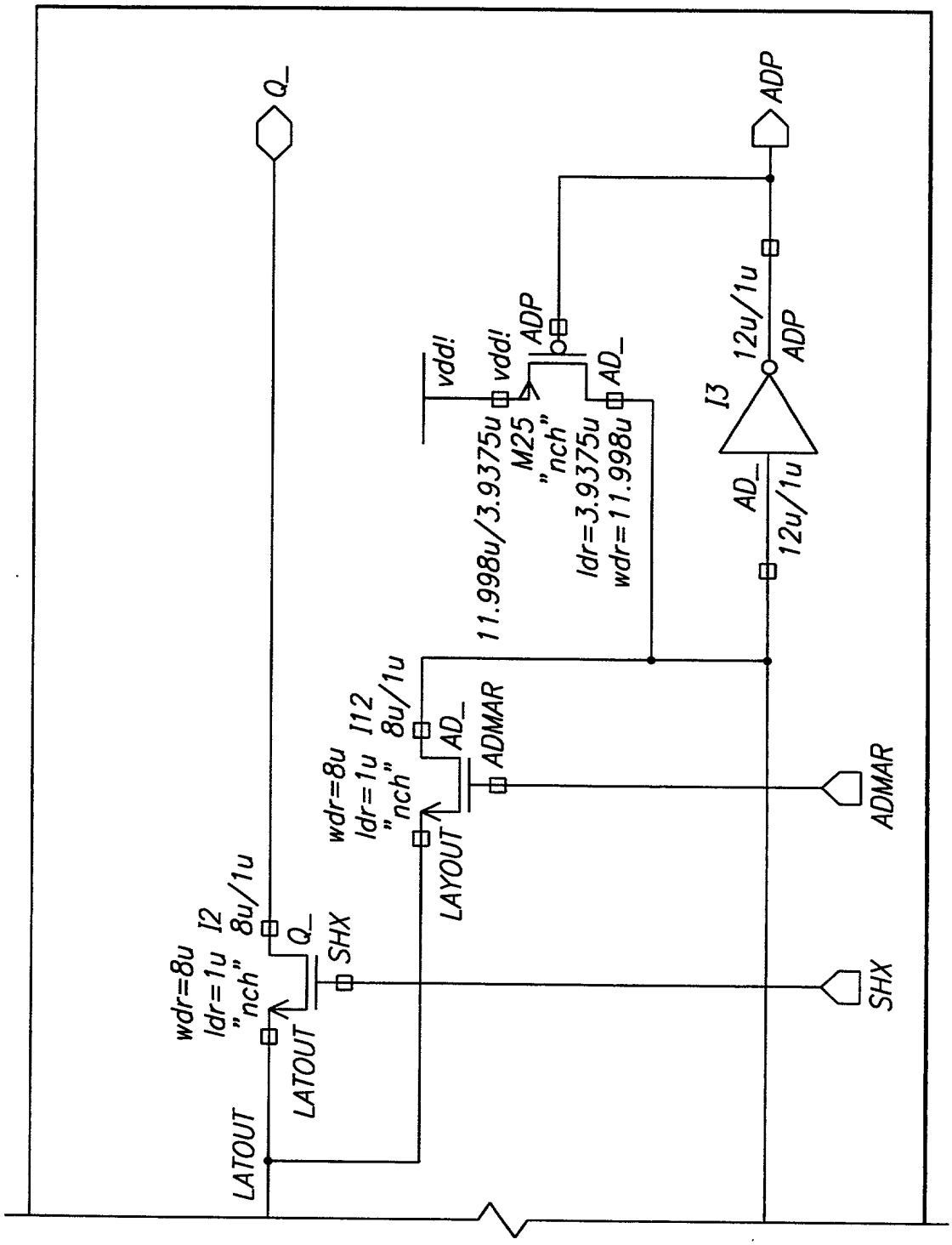


FIG 1.0901 0011 0SAA



Фиг. 11.09011 (11.09011 ОБЩАЯ)

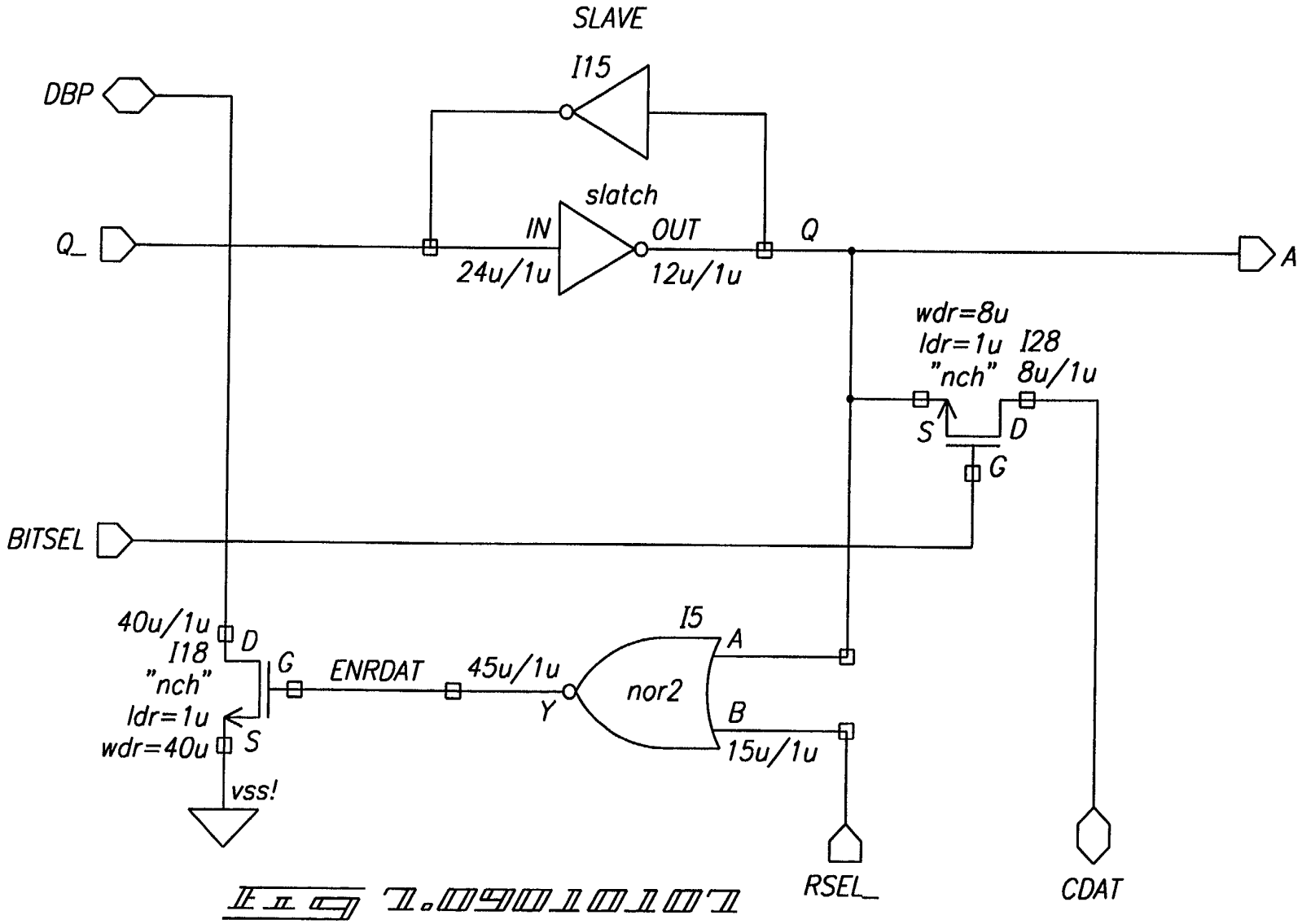


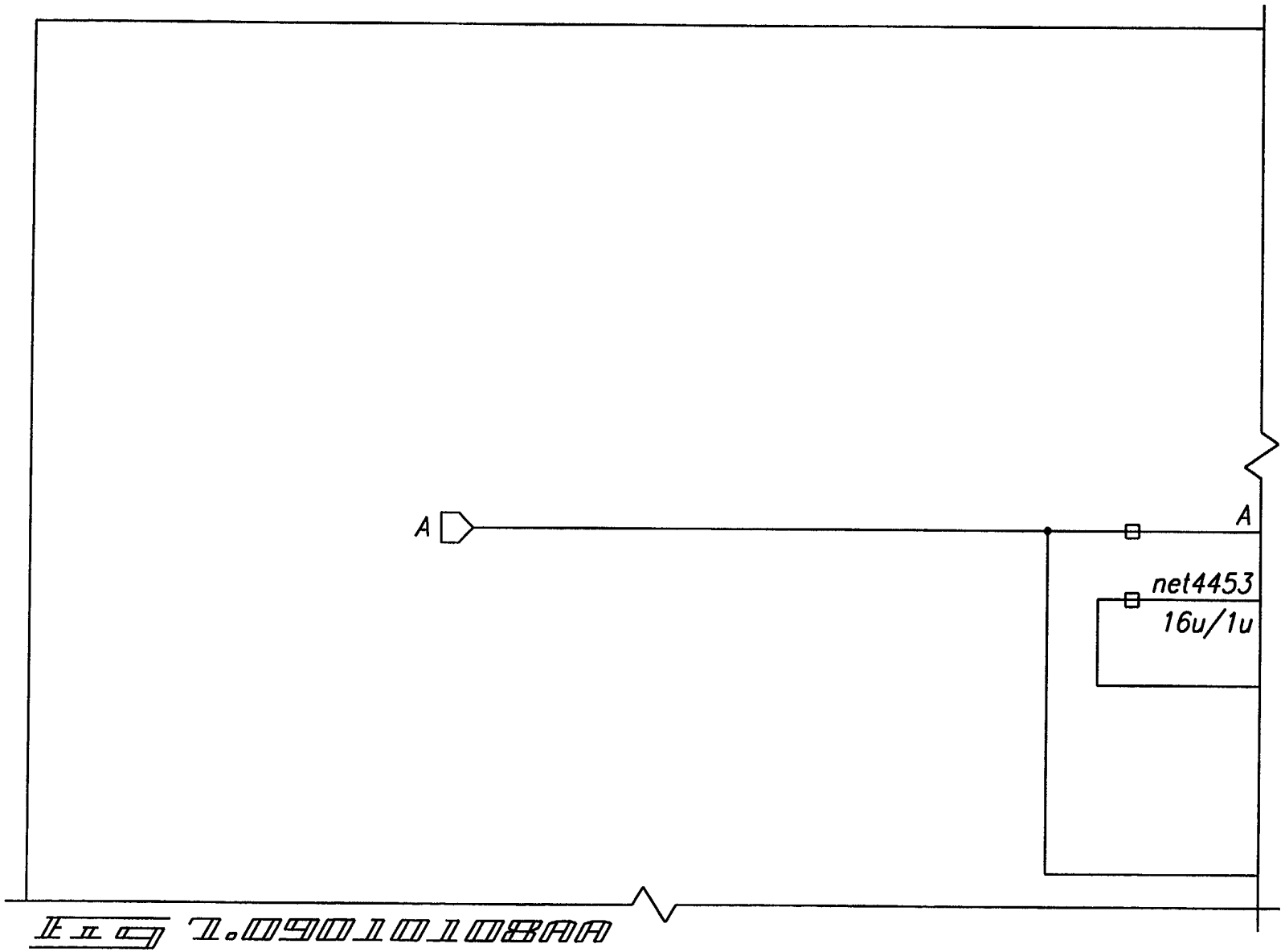
Fig 1.0901001

TOTTOD"E90328GD

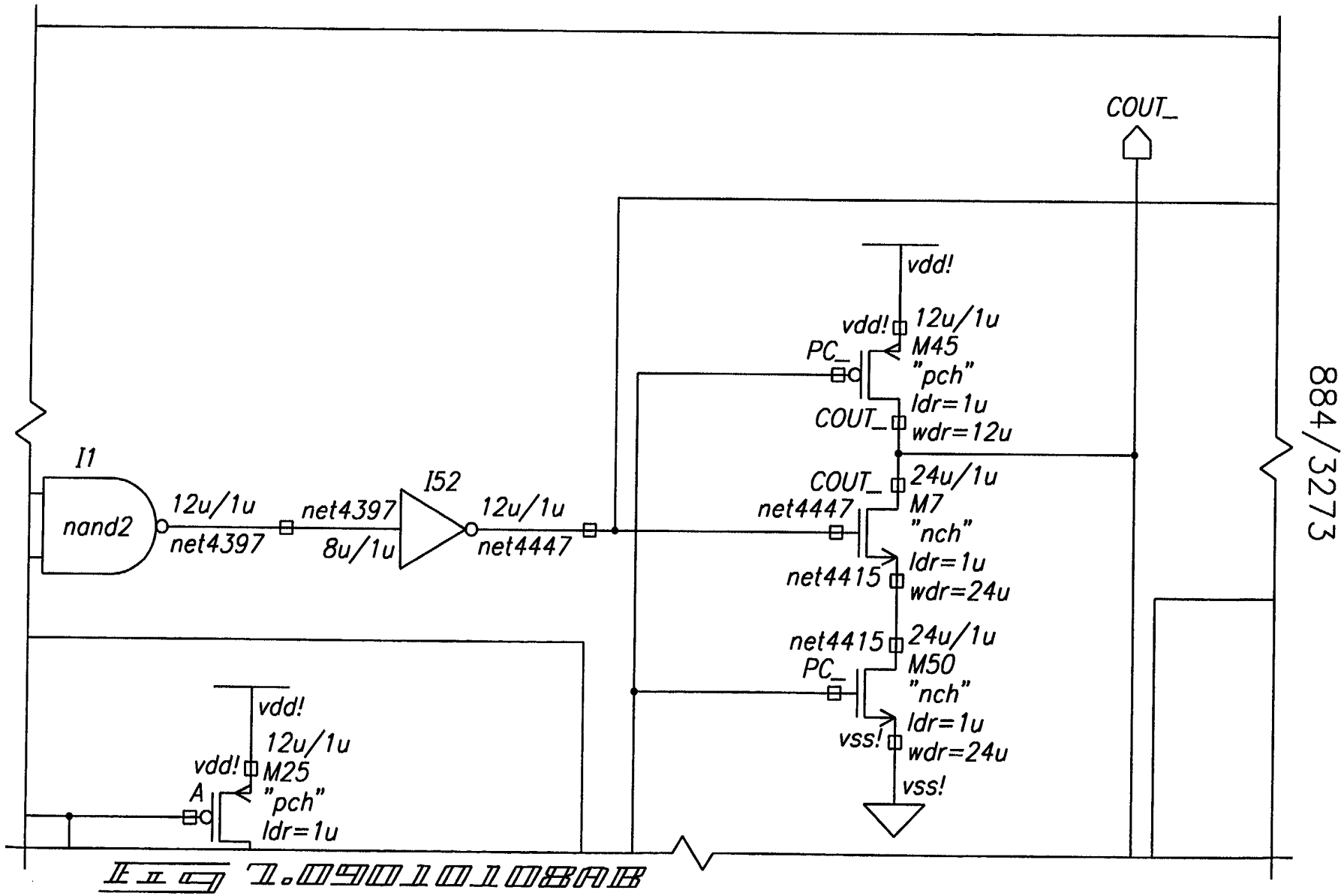
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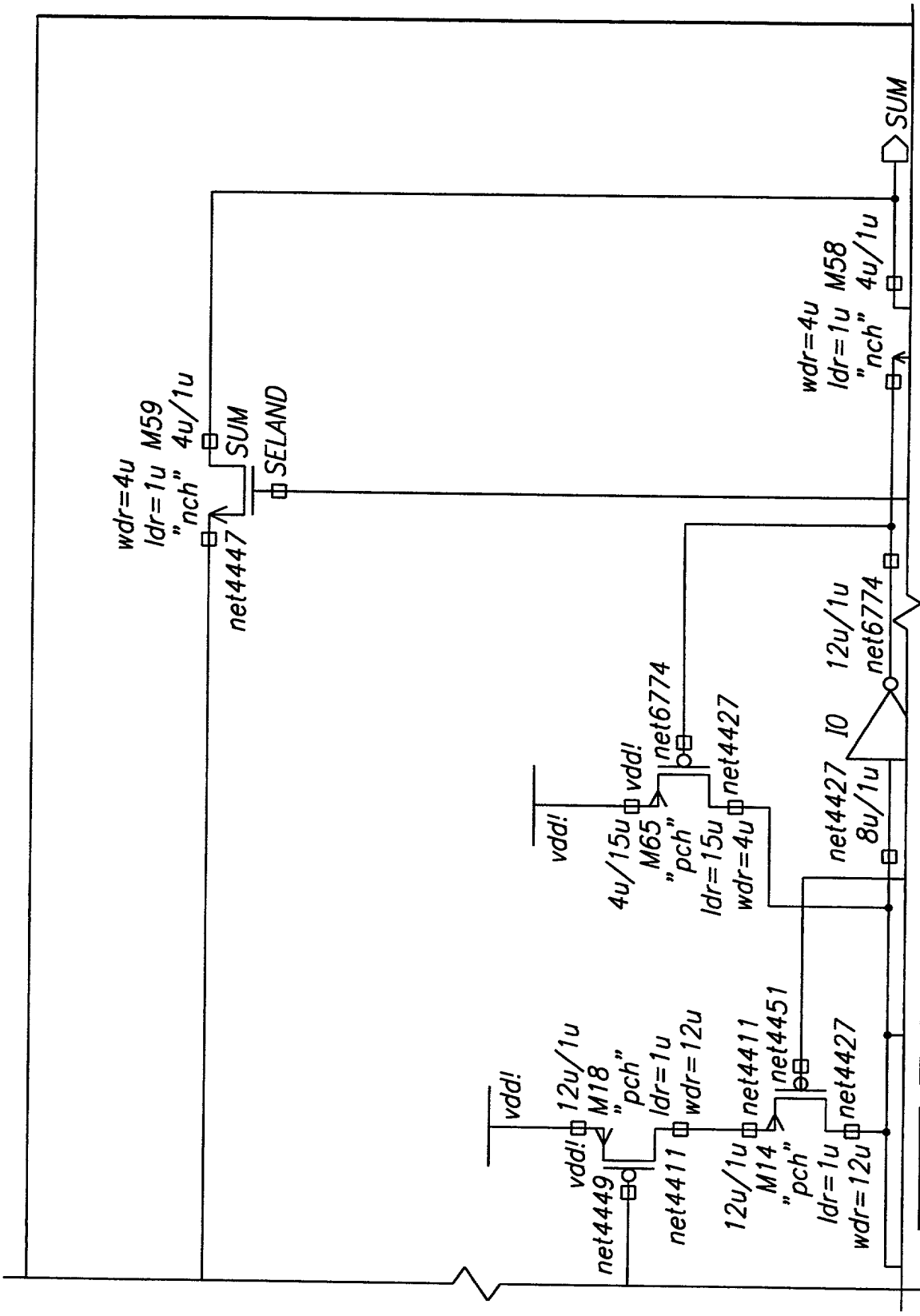
Fig 7.09010108

TDTI90*E9023860



Eq 1.0901010BAA


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vdd!
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M45
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ldr=1u
wdr=12u
PC_
COUT_
I1
nand2
12u/1u
net4397
net4397
8u/1u
I52
12u/1u
net4447
COUT_
24u/1u
M7
"nch"
ldr=1u
wdr=24u
net4447
net4415
net4415
24u/1u
M50
"nch"
ldr=1u
wdr=24u
PC_
vss!
vss!
vdd!
12u/1u
vdd!
M25
"pch"
ldr=1u
A
884/3273


wdr=4u
ldr=1u
"nch"
M59
4u/1u
SUM
SELAND
net4447
wdr=4u
ldr=1u
"nch"
M58
4u/1u
SUM
vdd!
4u/15u
M65
"pch"
ldr=15u
wdr=4u
net6774
net4427
vdd!
net6774
net4427
I0
12u/1u
8u/1u
vdd!
12u/1u
M18
"pch"
ldr=1u
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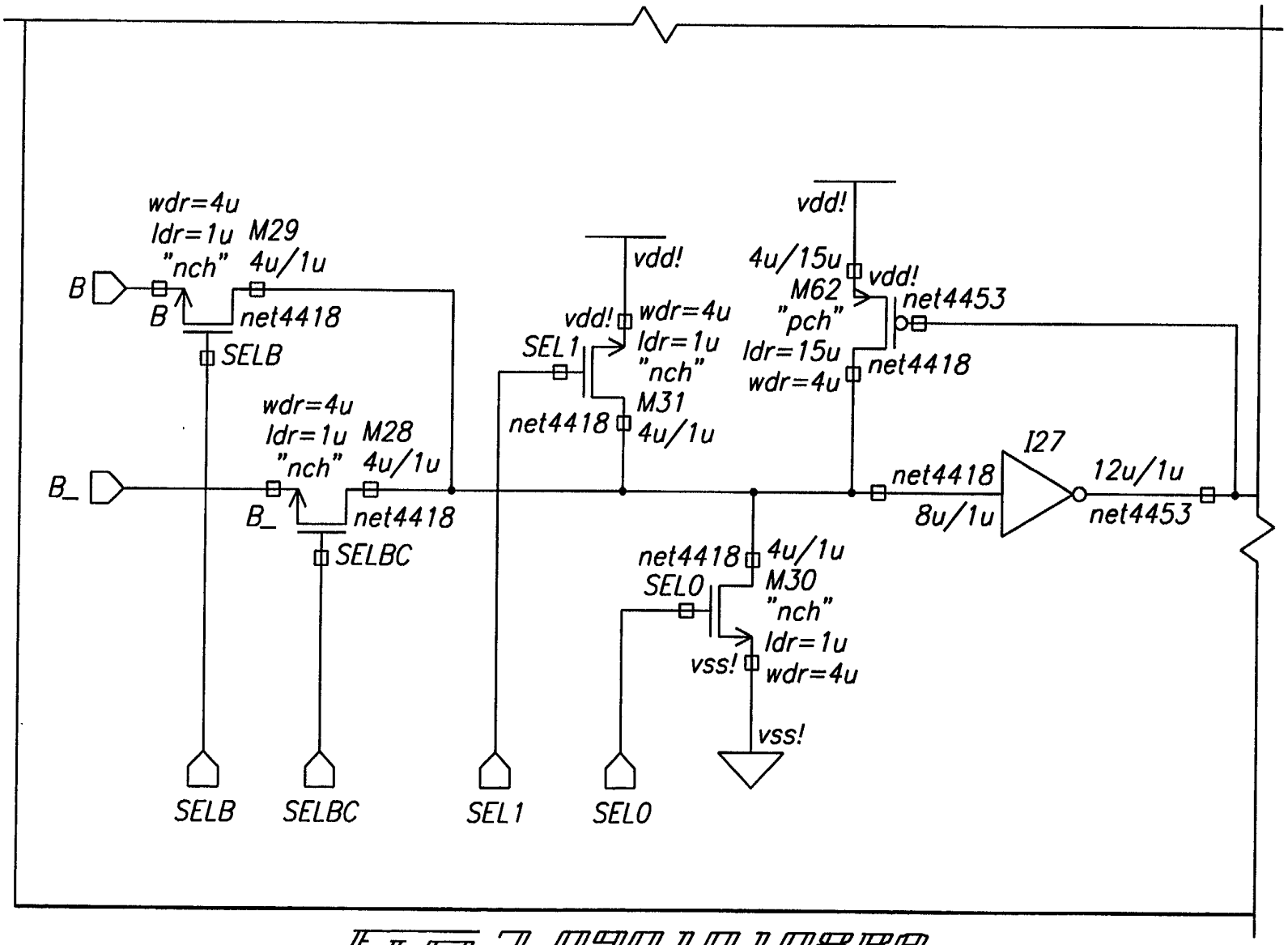
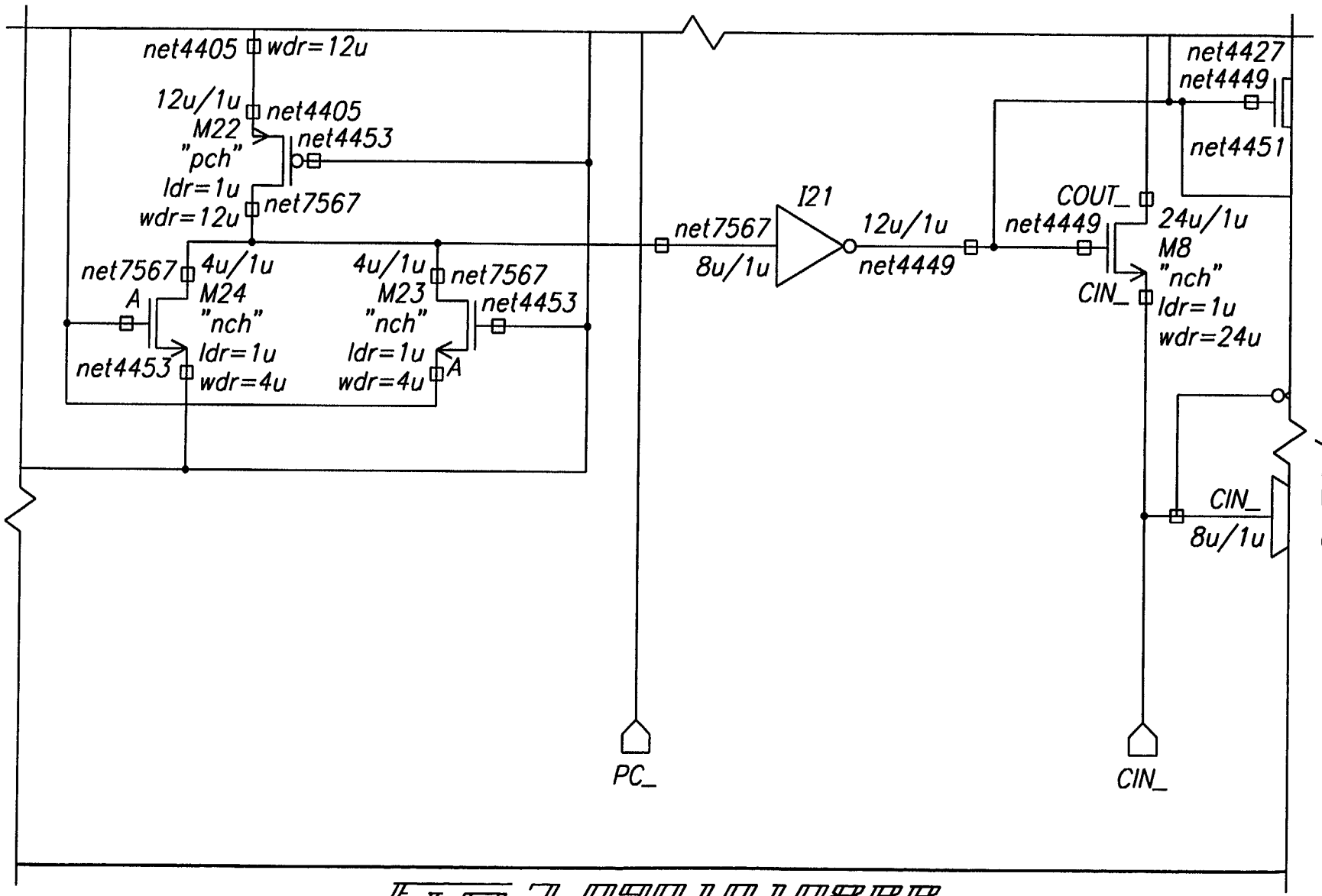
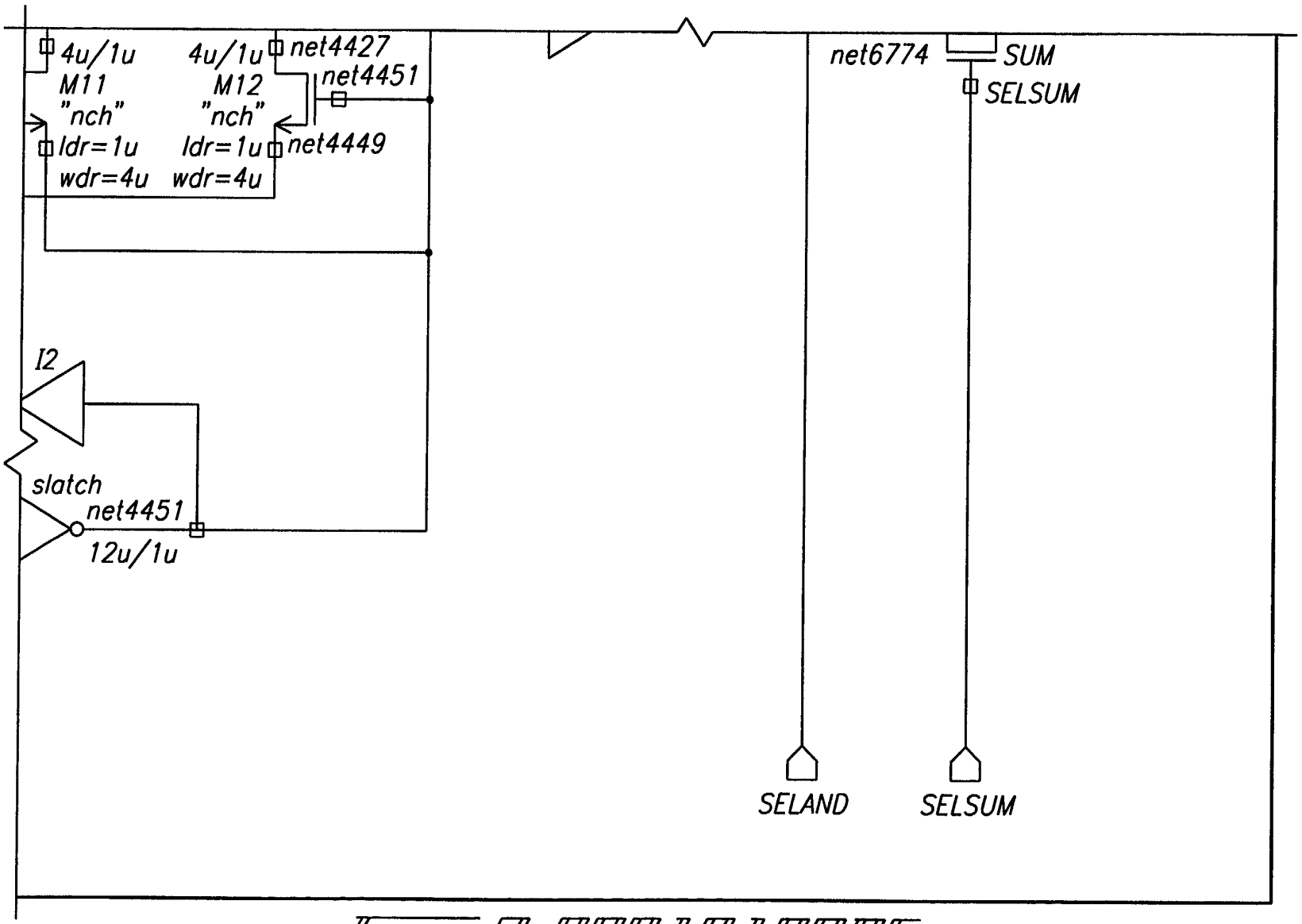


Fig 1.091010888A

886/3273


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net7567
net7567
4u/1u
M24
"nch"
A
ldr=1u
net4453
wdr=4u
4u/1u
M23
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net7567
net4453
ldr=1u
wdr=4u
A
net7567
8u/1u
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net4427
net4449
net4451
COUT_
net4449
24u/1u
M8
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CIN_
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CIN_
8u/1u
PC_
CIN_



888/3273

Fig 7.0901010BC

IDI190"E9032860

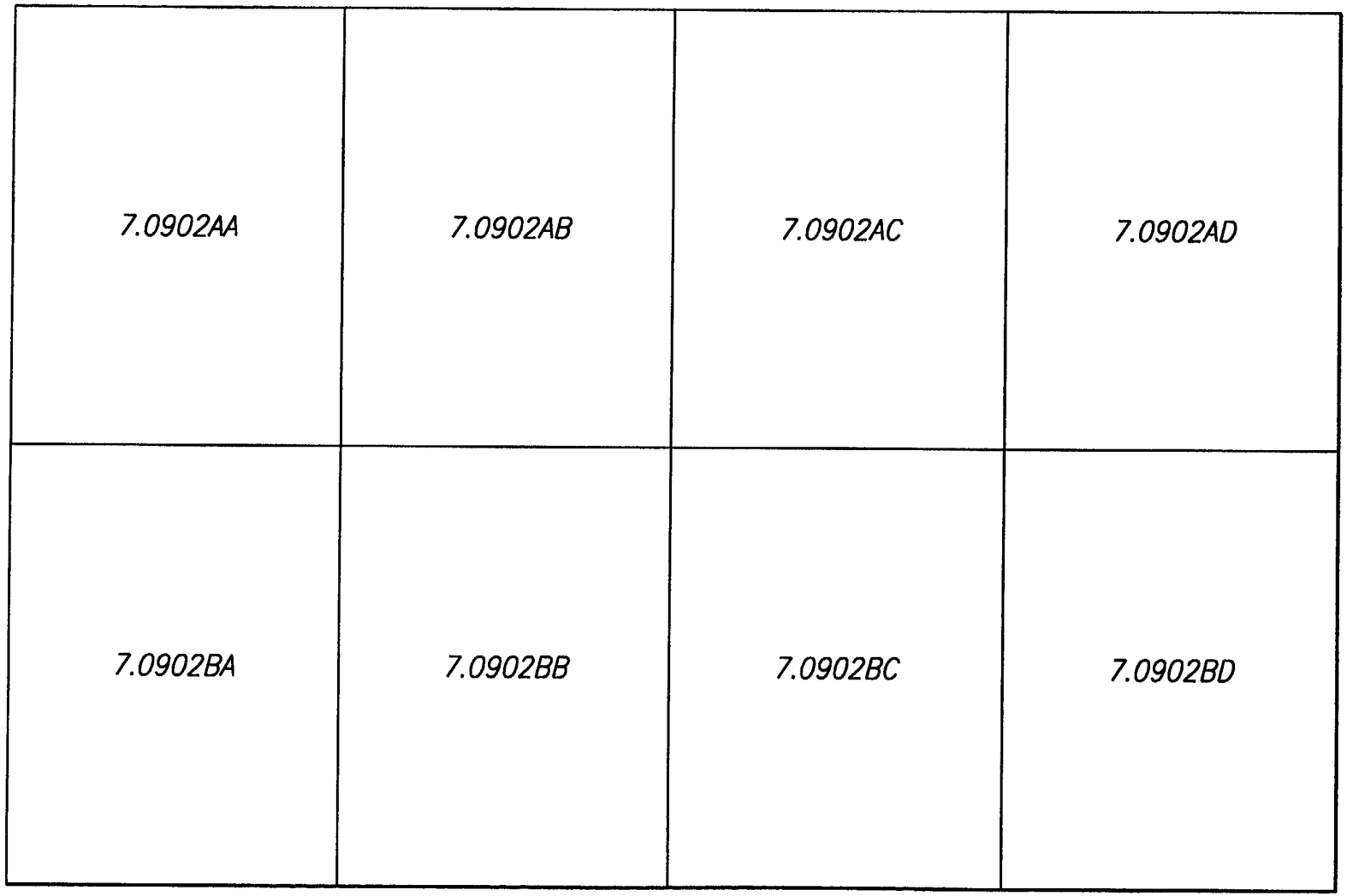


Fig 7.0902

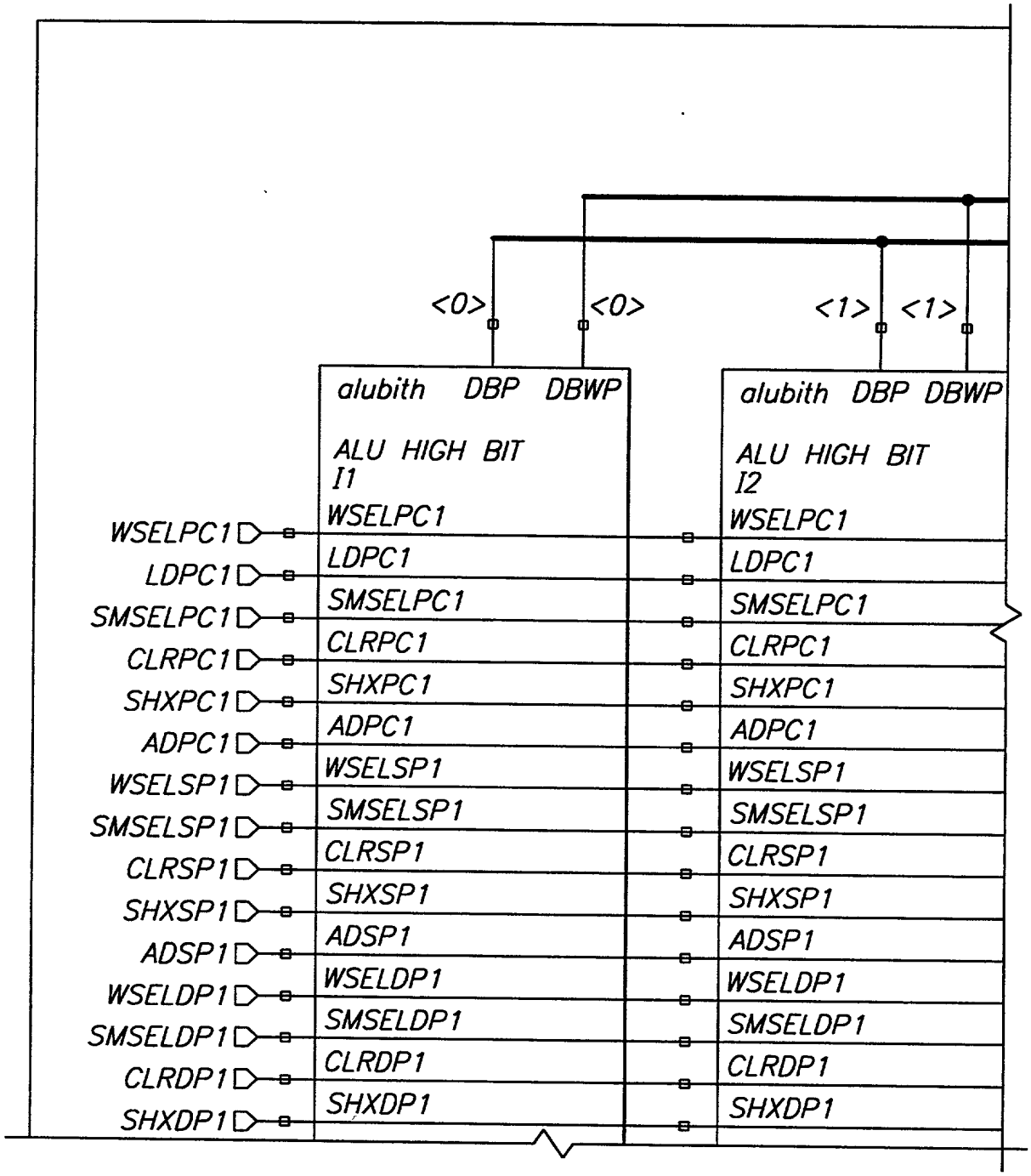


Fig 1.090220A

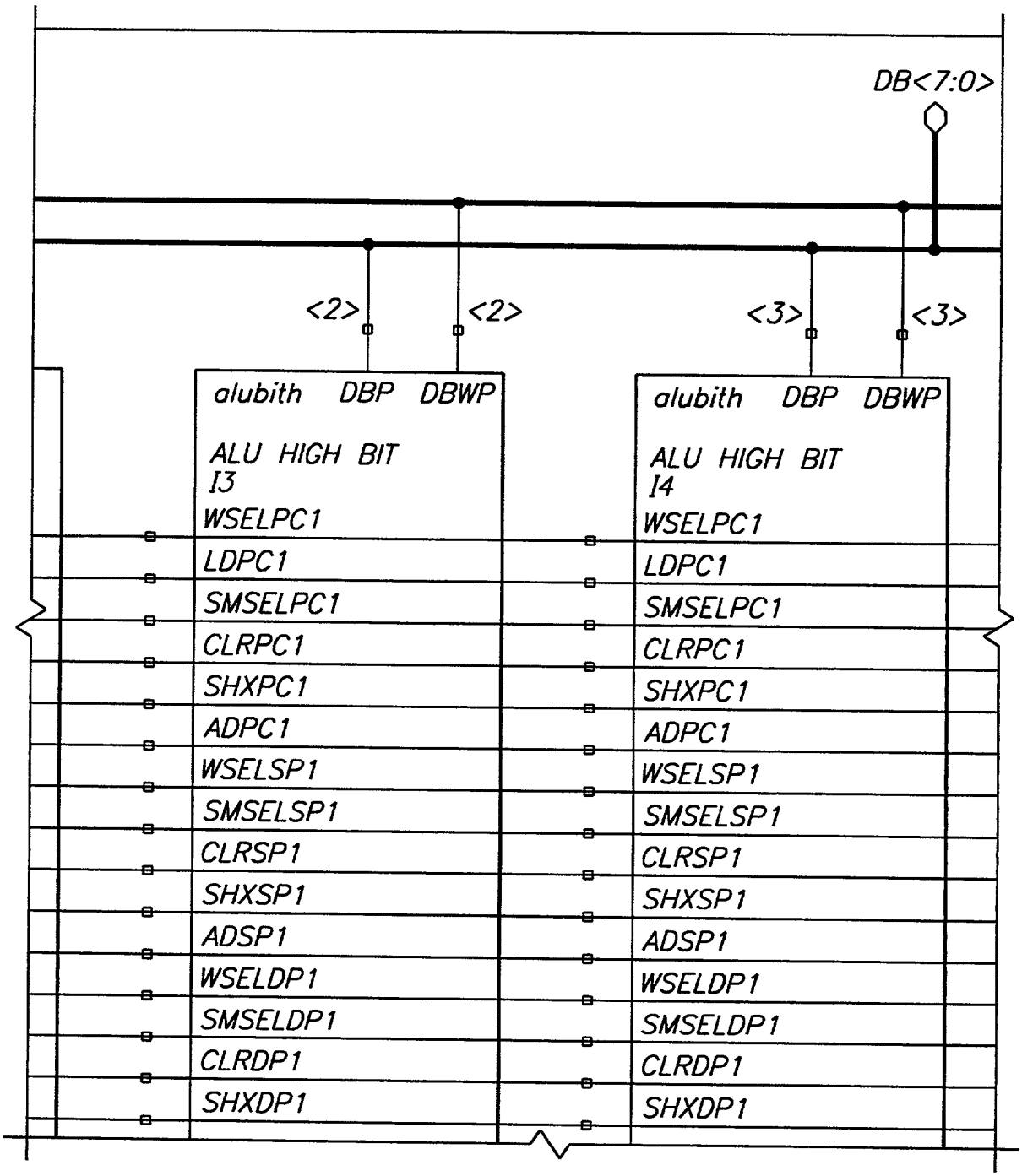

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<2>
<3>
<3>
alubith DBP DBWP
ALU HIGH BIT
I3
alubith DBP DBWP
ALU HIGH BIT
I4
WSELPC1
LDPC1
SMSELPC1
CLRPC1
SHXPC1
ADPC1
WSELSP1
SMSELSP1
CLRSP1
SHXSP1
ADSP1
WSELDP1
SMSELDP1
CLRDP1
SHXDP1

Fig 1.090208

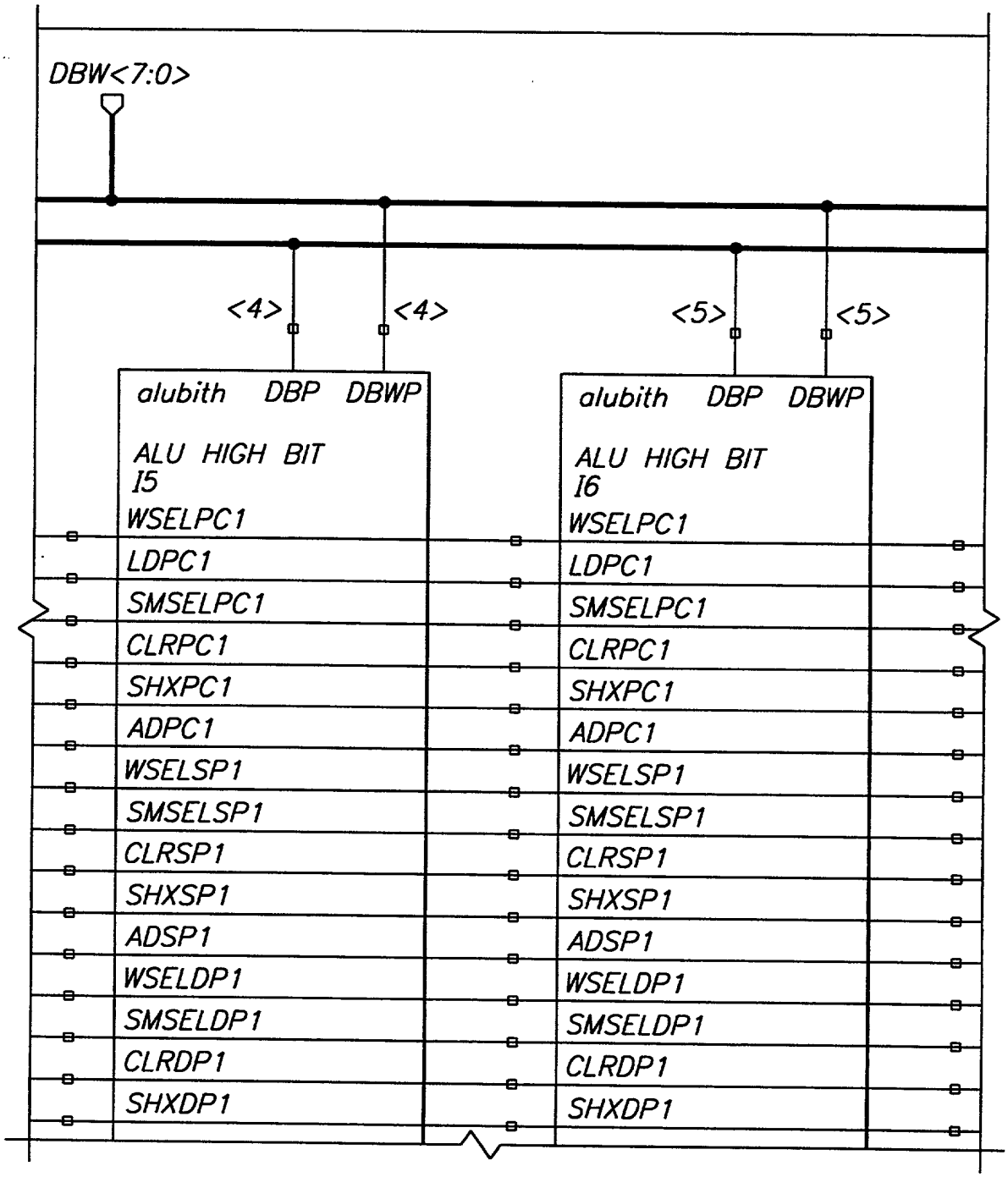

DBW<7:0>
<4>
<4>
<5>
<5>
alubith DBP DBWP
ALU HIGH BIT
I5
alubith DBP DBWP
ALU HIGH BIT
I6
WSELPC1
LDPC1
SMSELPC1
CLRPC1
SHXPC1
ADPC1
WSELSP1
SMSELSP1
CLRSP1
SHXSP1
ADSP1
WSELDP1
SMSELDP1
CLRDP1
SHXDP1

Fig 1.090ZAC

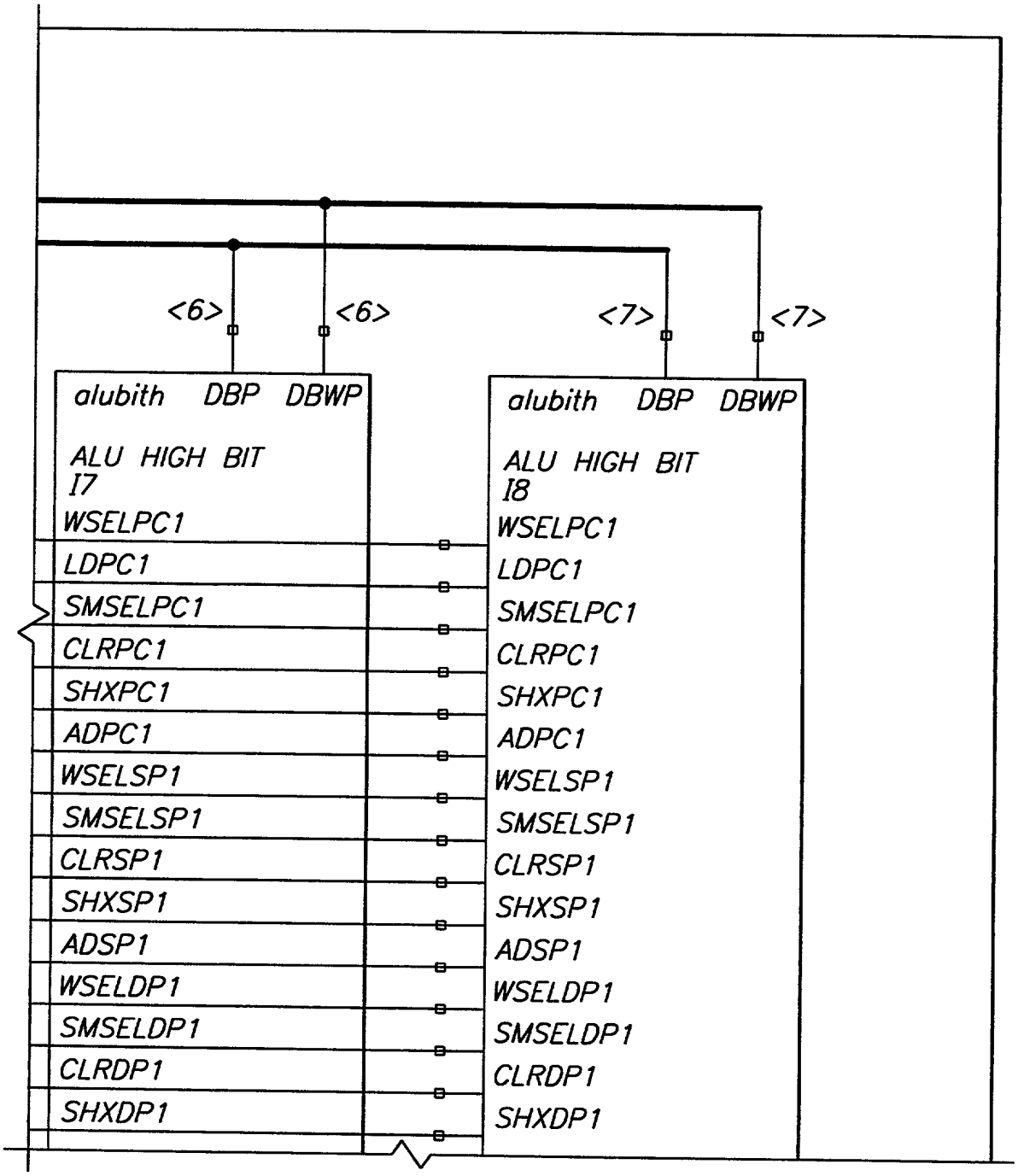

<6>
<6>
<7>
<7>
alubith DBP DBWP
ALU HIGH BIT
I7
WSELPC1
LDPC1
SMSELPC1
CLRPC1
SHXPC1
ADPC1
WSELSP1
SMSELSP1
CLRSP1
SHXSP1
ADSP1
WSELDP1
SMSELDP1
CLRDP1
SHXDP1
alubith DBP DBWP
ALU HIGH BIT
I8
WSELPC1
LDPC1
SMSELPC1
CLRPC1
SHXPC1
ADPC1
WSELSP1
SMSELSP1
CLRSP1
SHXSP1
ADSP1
WSELDP1
SMSELDP1
CLRDP1
SHXDP1

Fig 1.090240

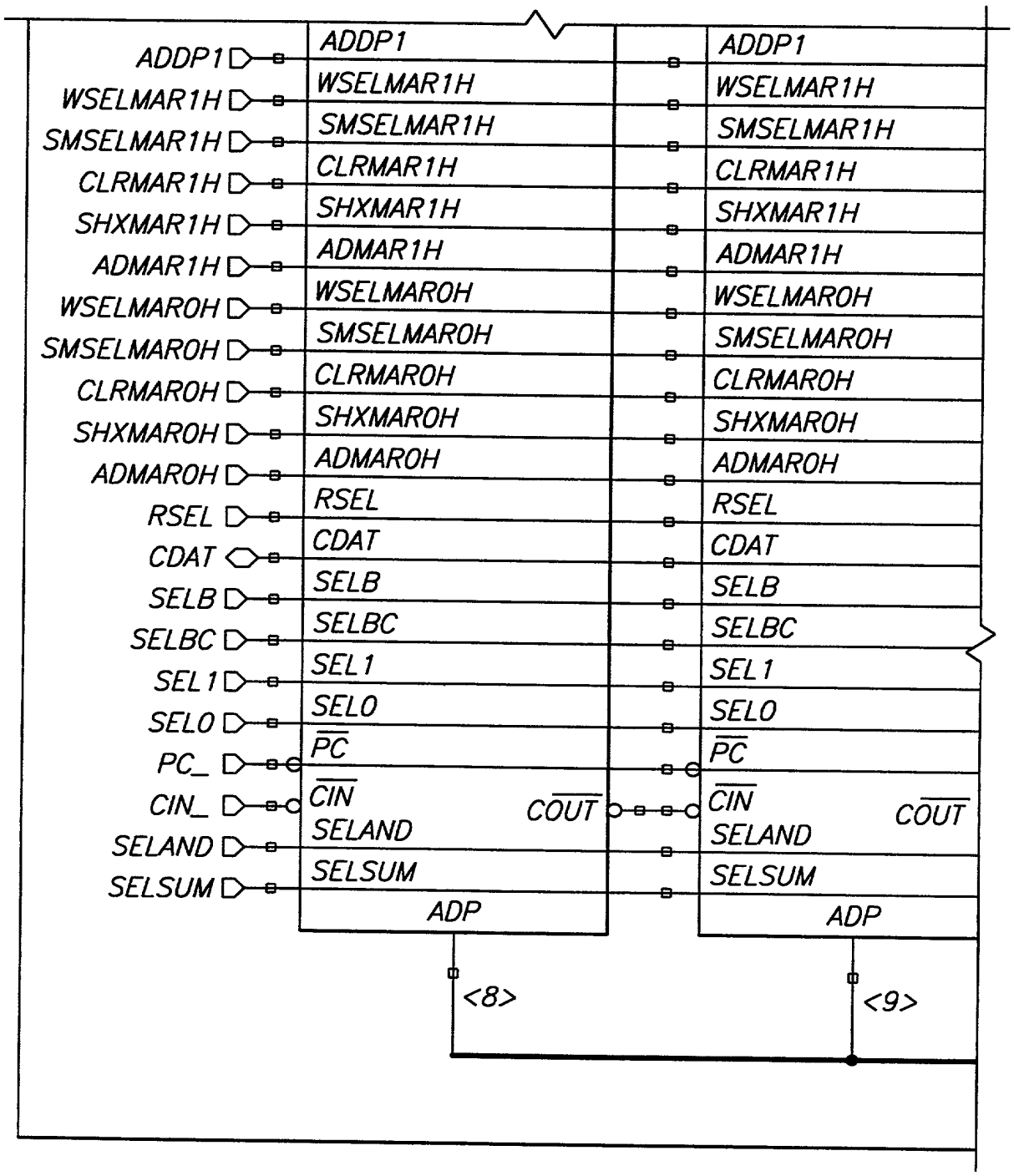


Fig 1.090280A

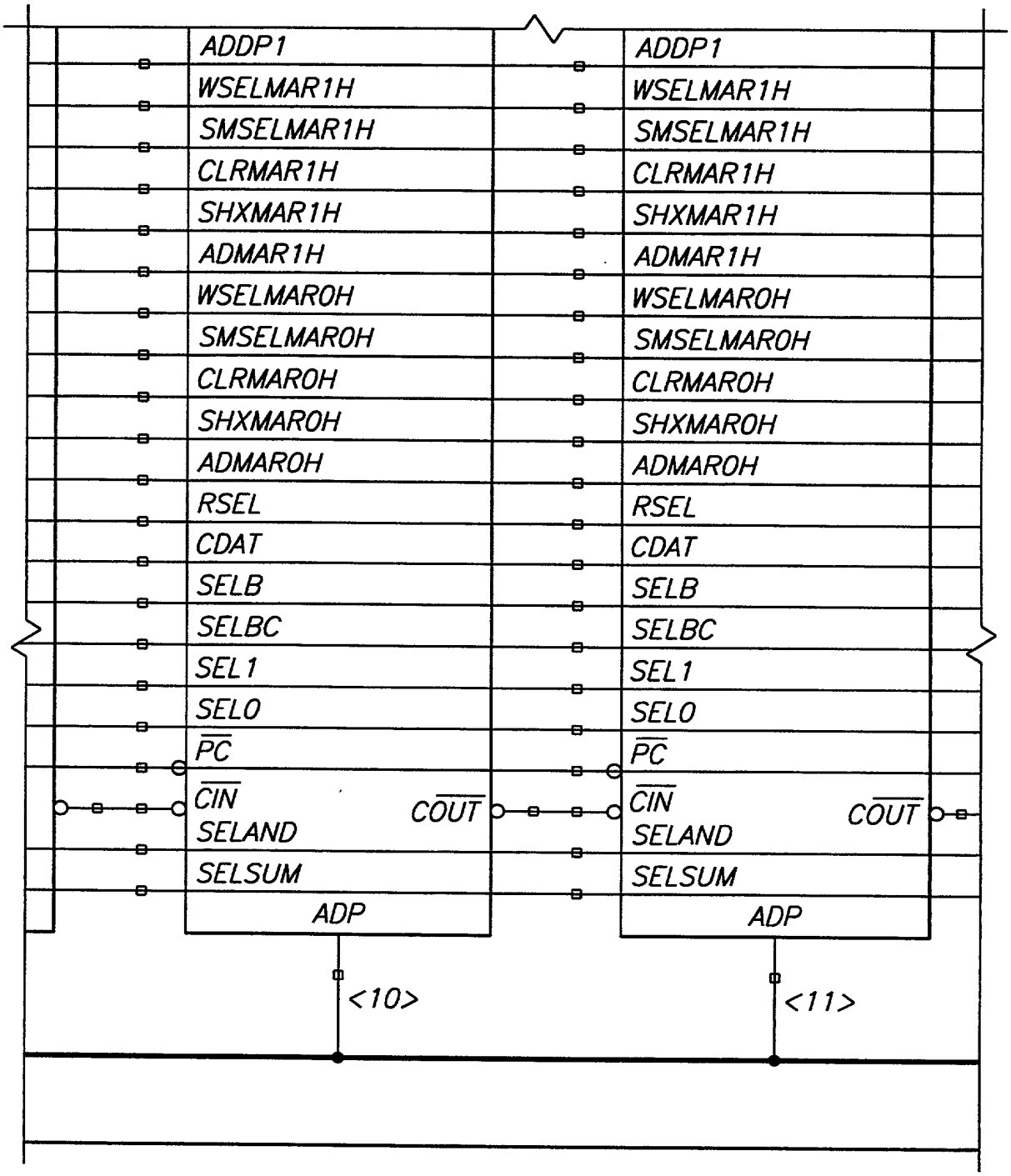

ADDP1
WSELMAR1H
SMSELMAR1H
CLRMAR1H
SHXMAR1H
ADMAR1H
WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SELO
PC
CIN
SELAND
COUT
SELSUM
ADP
<10>
ADDP1
WSELMAR1H
SMSELMAR1H
CLRMAR1H
SHXMAR1H
ADMAR1H
WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SELO
PC
CIN
SELAND
COUT
SELSUM
ADP
<11>

Fig 1.090288

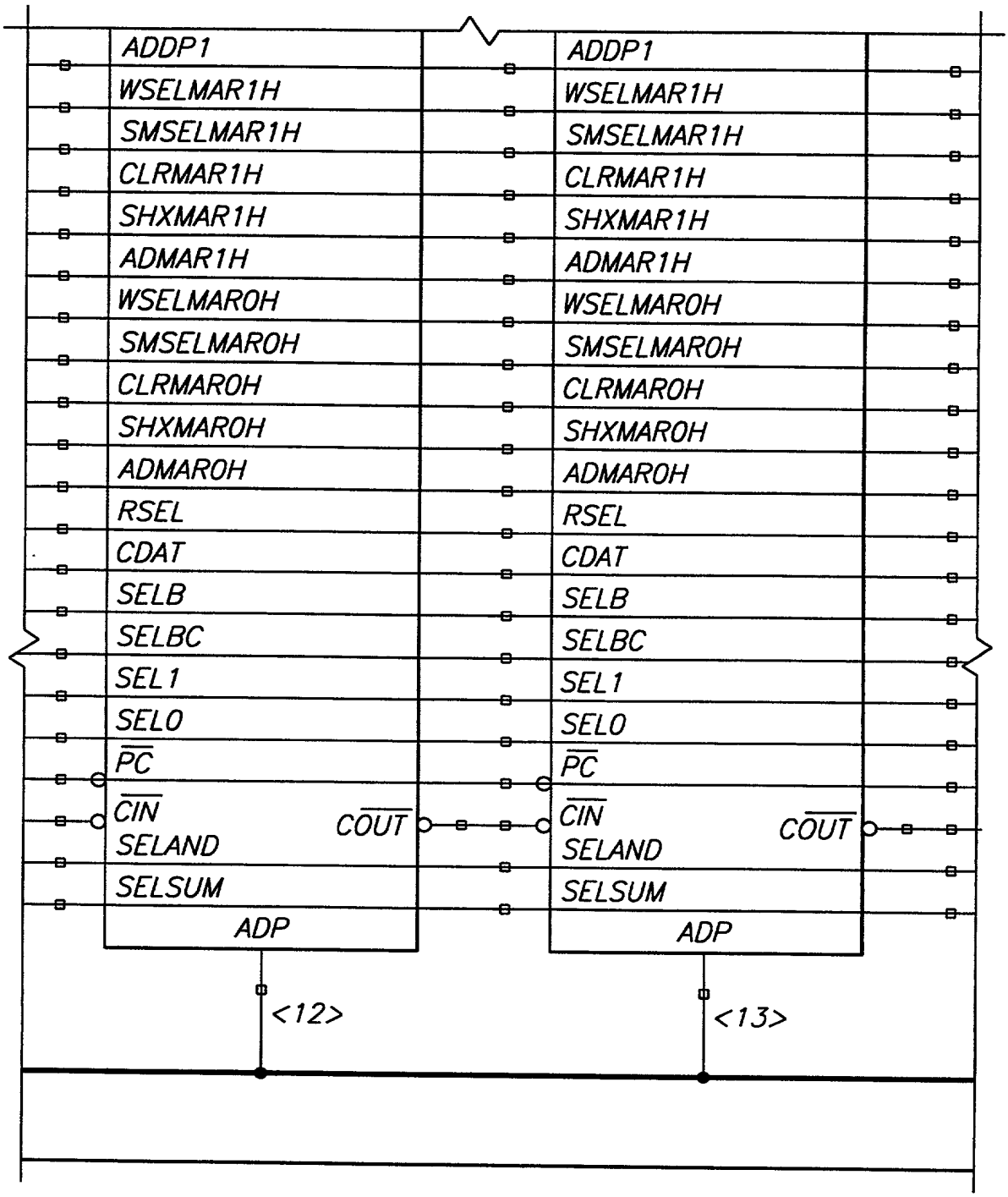

ADDP1
WSELMAR1H
SMSELMAR1H
CLRMAR1H
SHXMAR1H
ADMAR1H
WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SEL0
PC
CIN
SELAND
COUT
SELSUM
ADP
<12>
<13>

Fig 1.0902BC

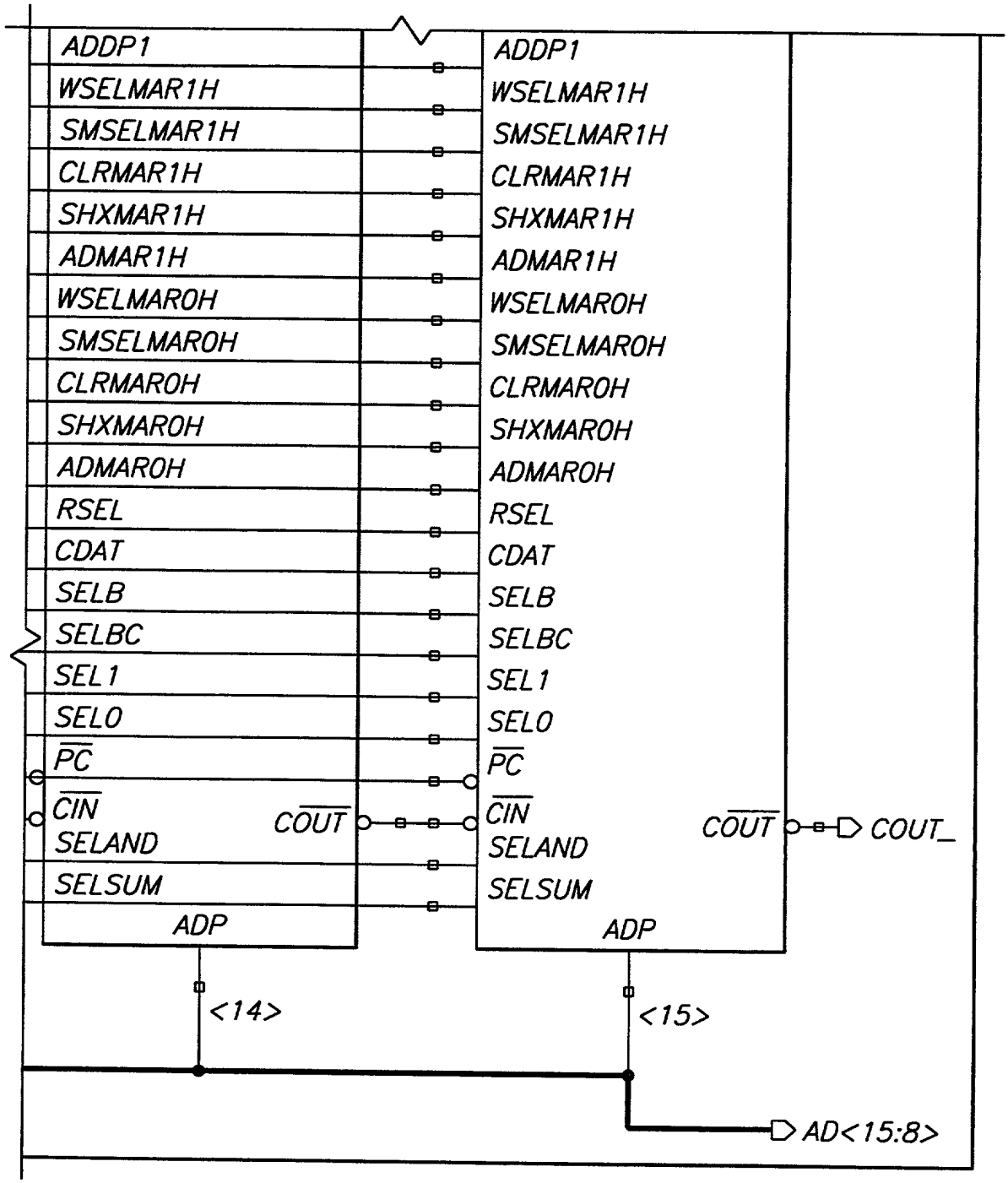

ADDP1
WSELMAR1H
SMSELMAR1H
CLRMAR1H
SHXMAR1H
ADMAR1H
WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SEL0
PC
CIN
SELAND
COUT
SELSUM
ADP
<14>
ADDP1
WSELMAR1H
SMSELMAR1H
CLRMAR1H
SHXMAR1H
ADMAR1H
WSELMAROH
SMSELMAROH
CLRMAROH
SHXMAROH
ADMAROH
RSEL
CDAT
SELB
SELBC
SEL1
SEL0
PC
CIN
SELAND
COUT
SELSUM
ADP
<15>
COUT_
AD<15:8>

Fig 1.090280

TOTTOD'ES0223860

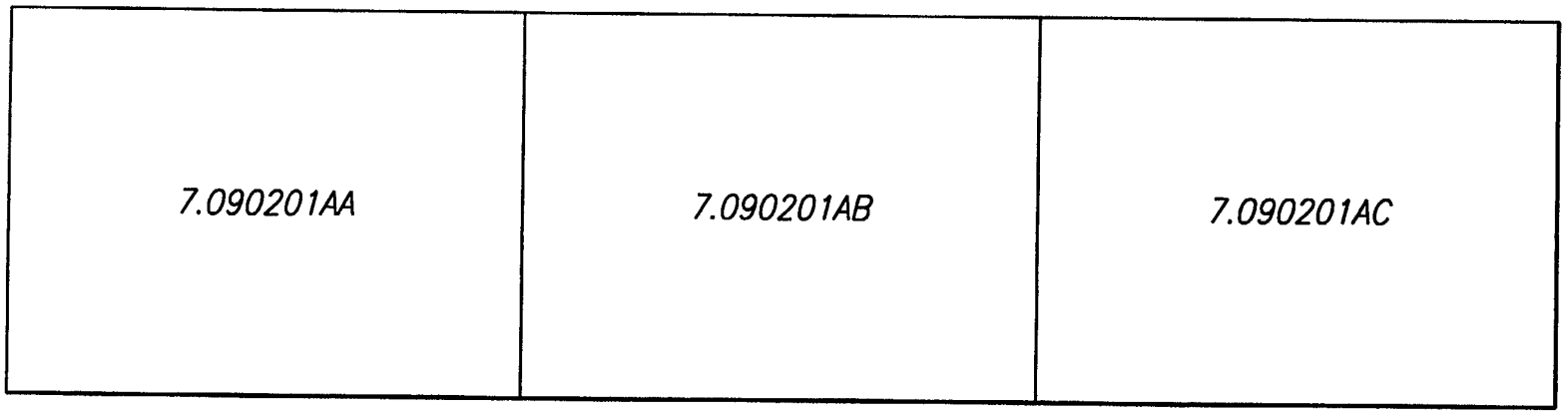


Fig 7.090201

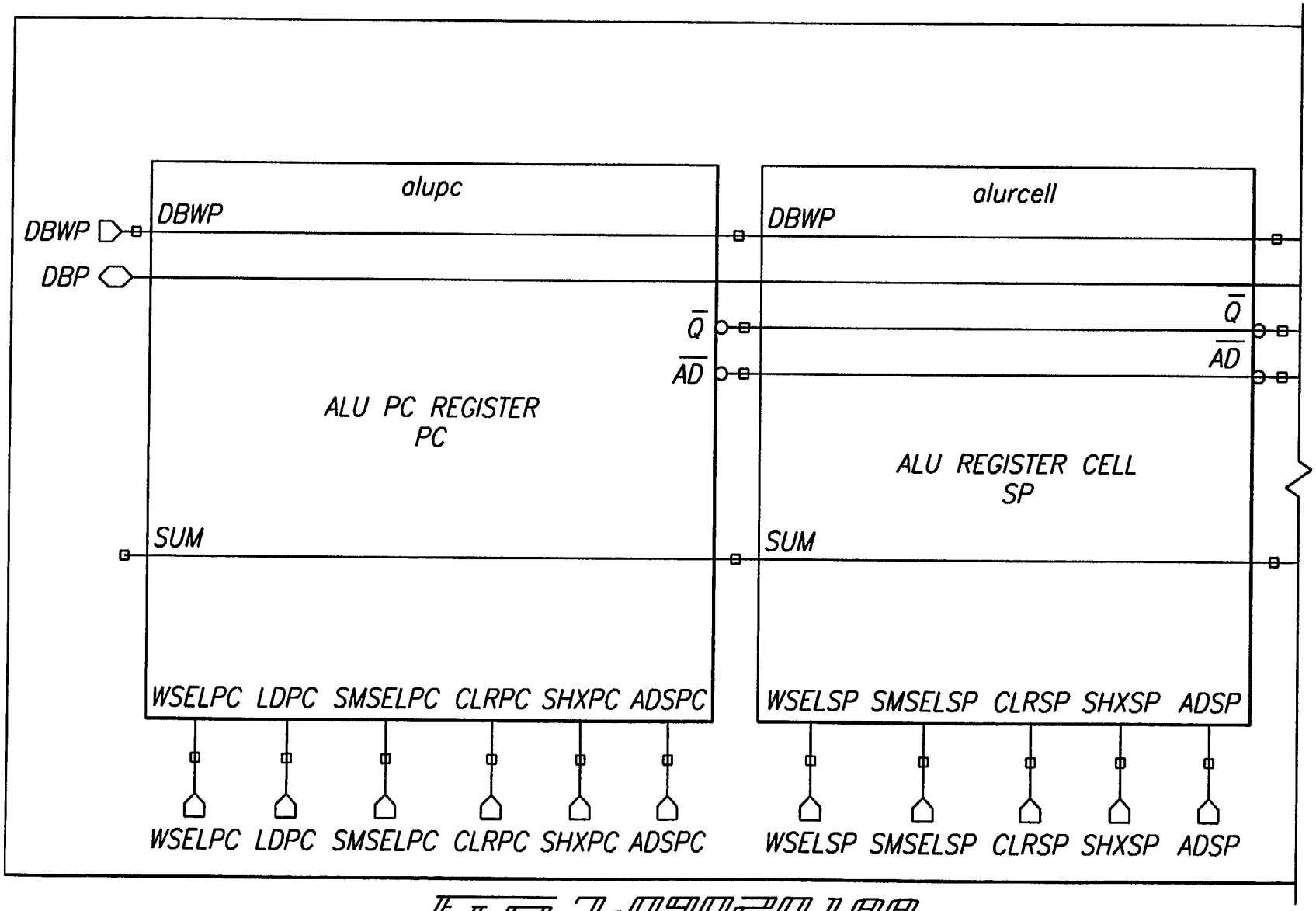


Fig 1.0900201AA

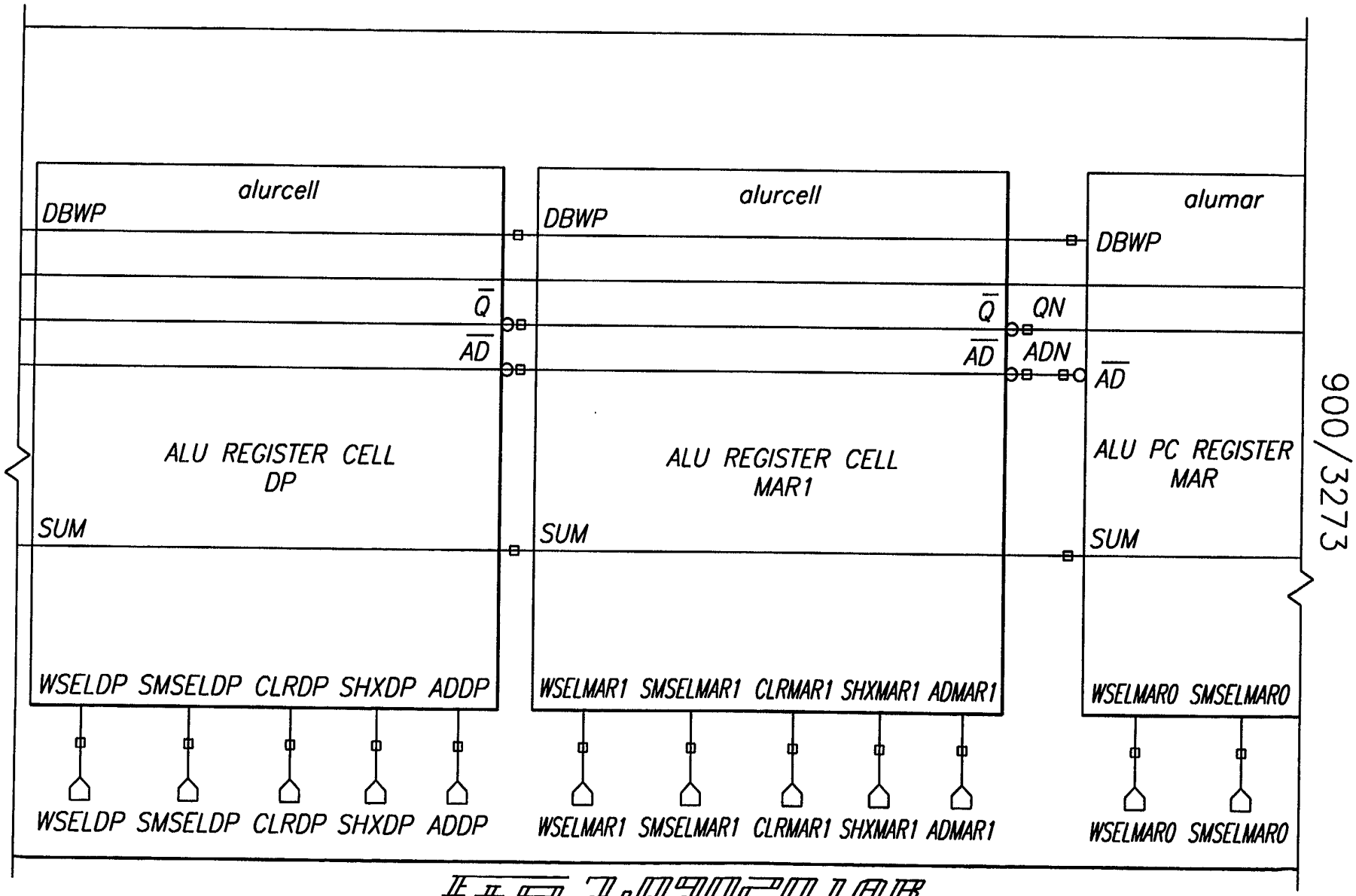
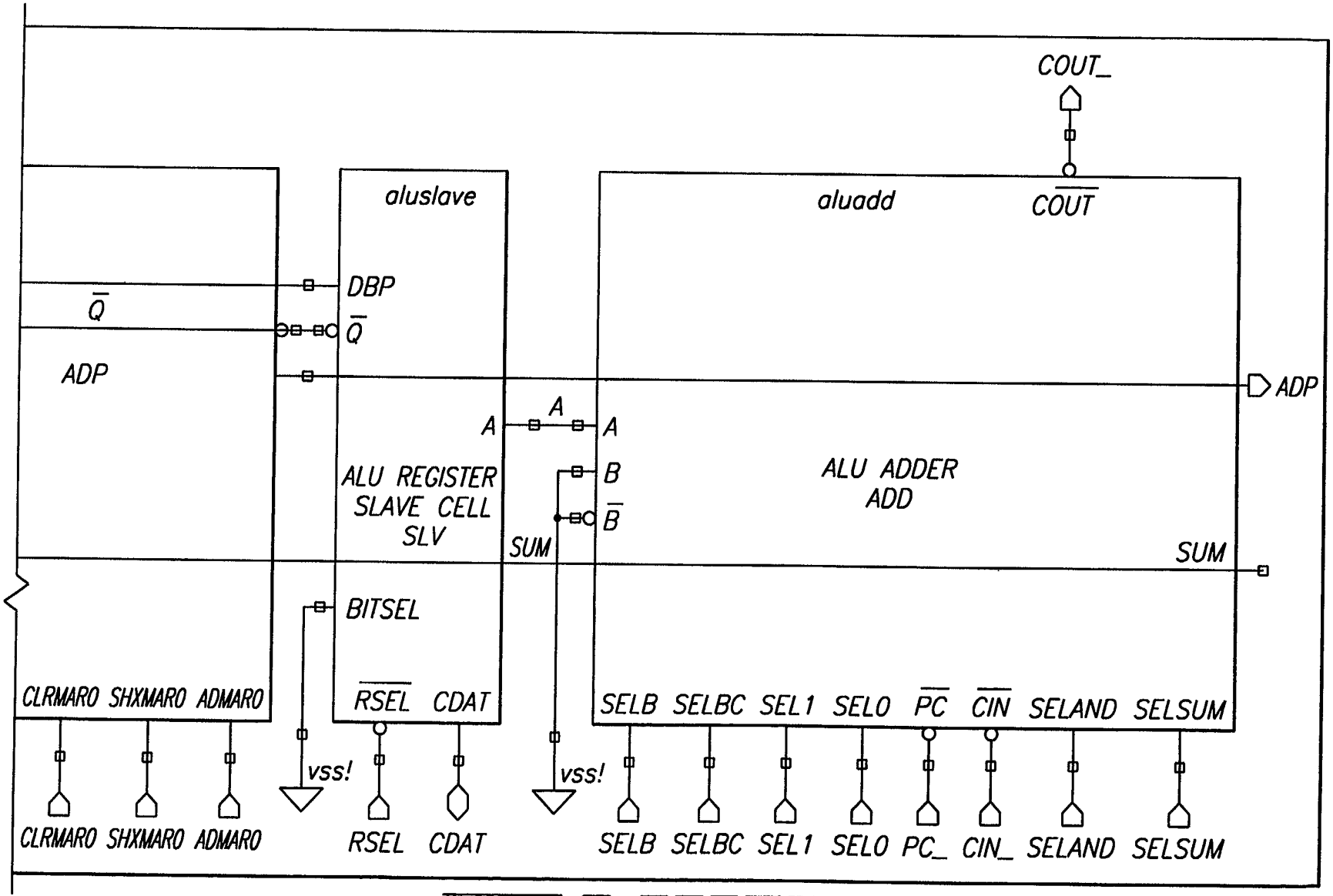


Fig 1.0902010AB



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Fig 1.090201AC

T0T190 E9032860

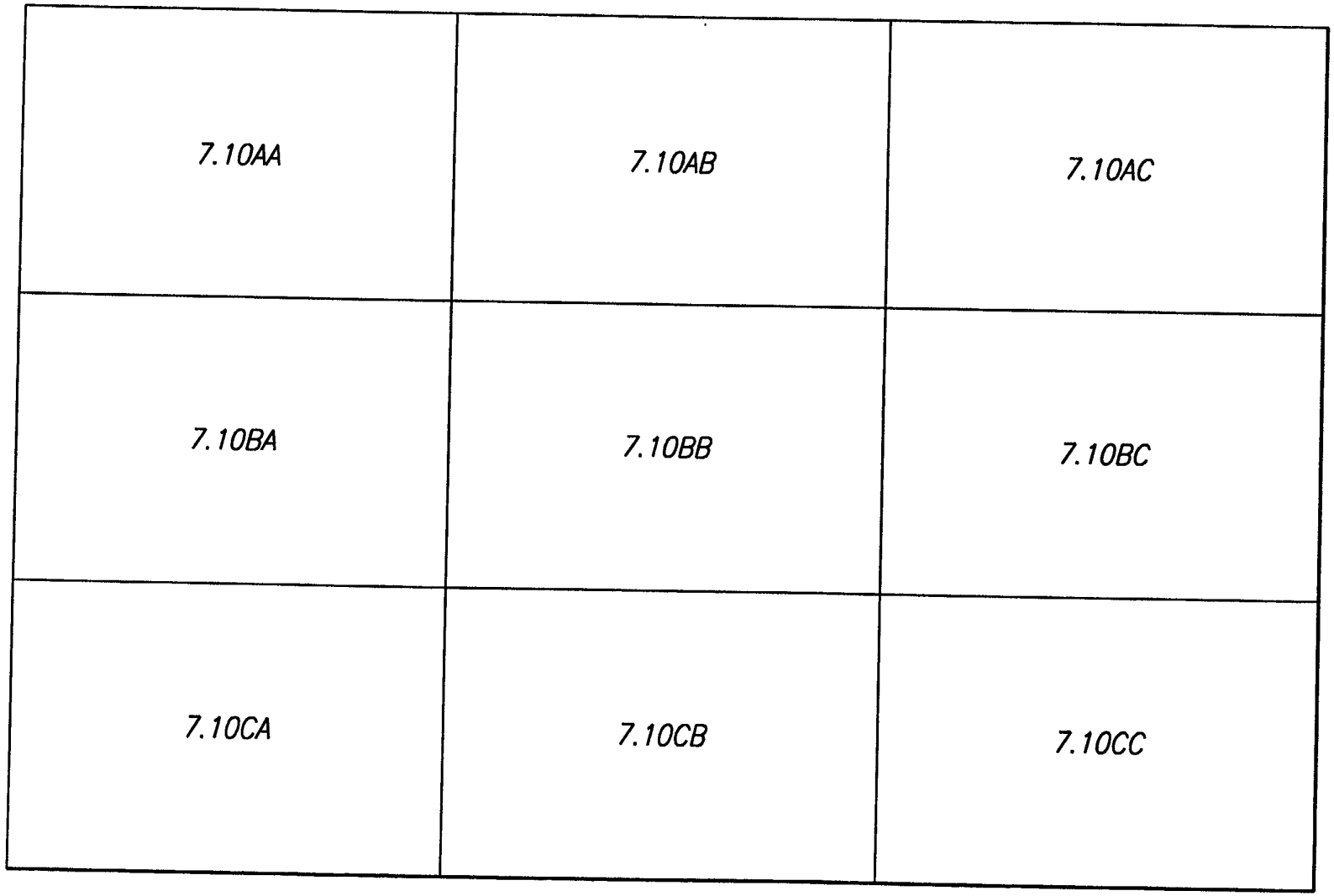


Fig 7.10

902/3273

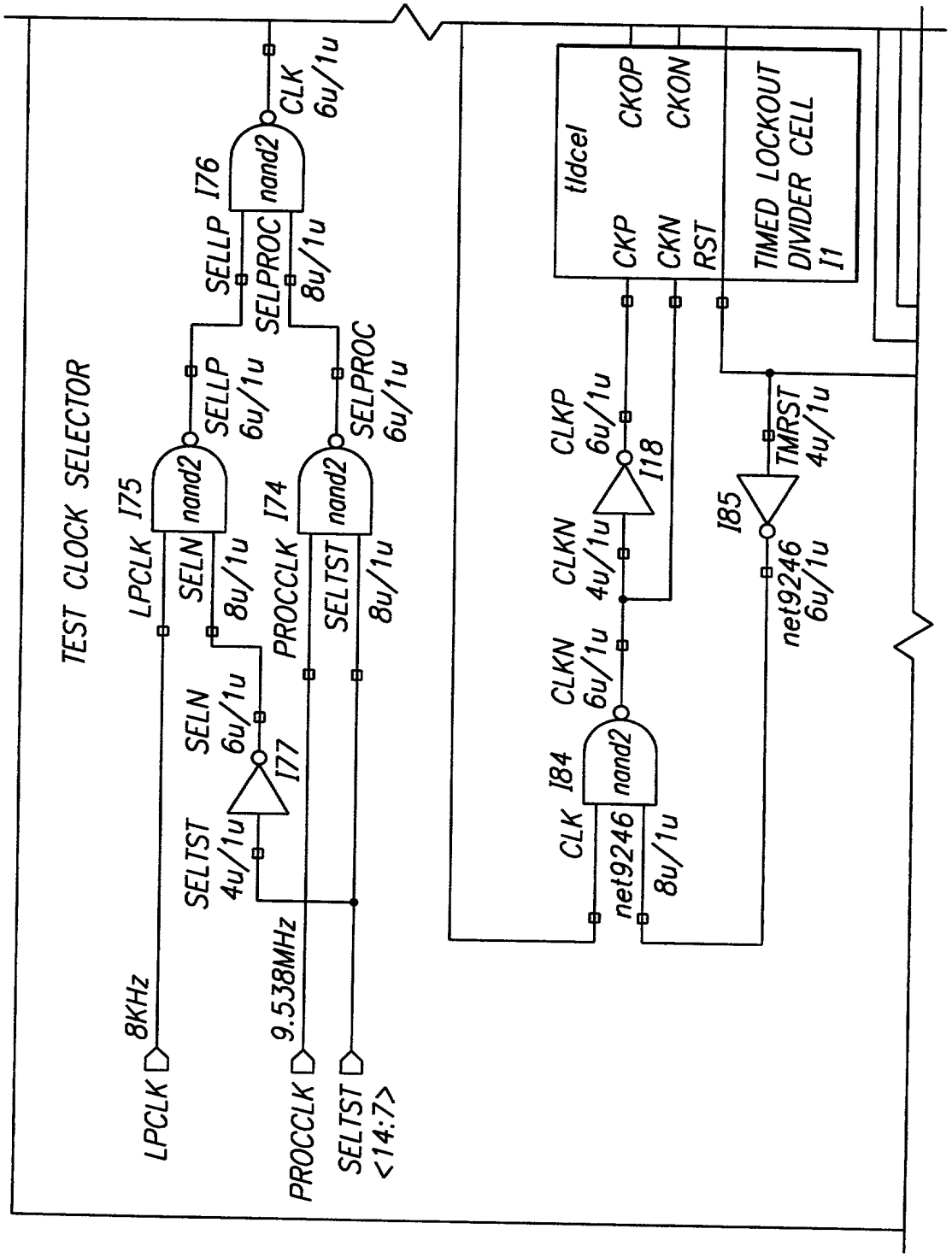

TEST CLOCK SELECTOR
LPCLK
8KHz
PROCCLK
9.538MHz
SELTST
<14:7>
SELTST
4u/1u
SELN
6u/1u
I77
SELN
8u/1u
I75
nand2
SELLP
6u/1u
SELLP
8u/1u
I76
nand2
CLK
6u/1u
SELPROC
8u/1u
SELPROC
6u/1u
I74
nand2
tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT
DIVIDER CELL
I1
CLKP
6u/1u
I18
CLKN
4u/1u
CLKN
6u/1u
I84
nand2
CLK
net9246
8u/1u
I85
TMRST
4u/1u
net9246
6u/1u

FIG 11.11MA

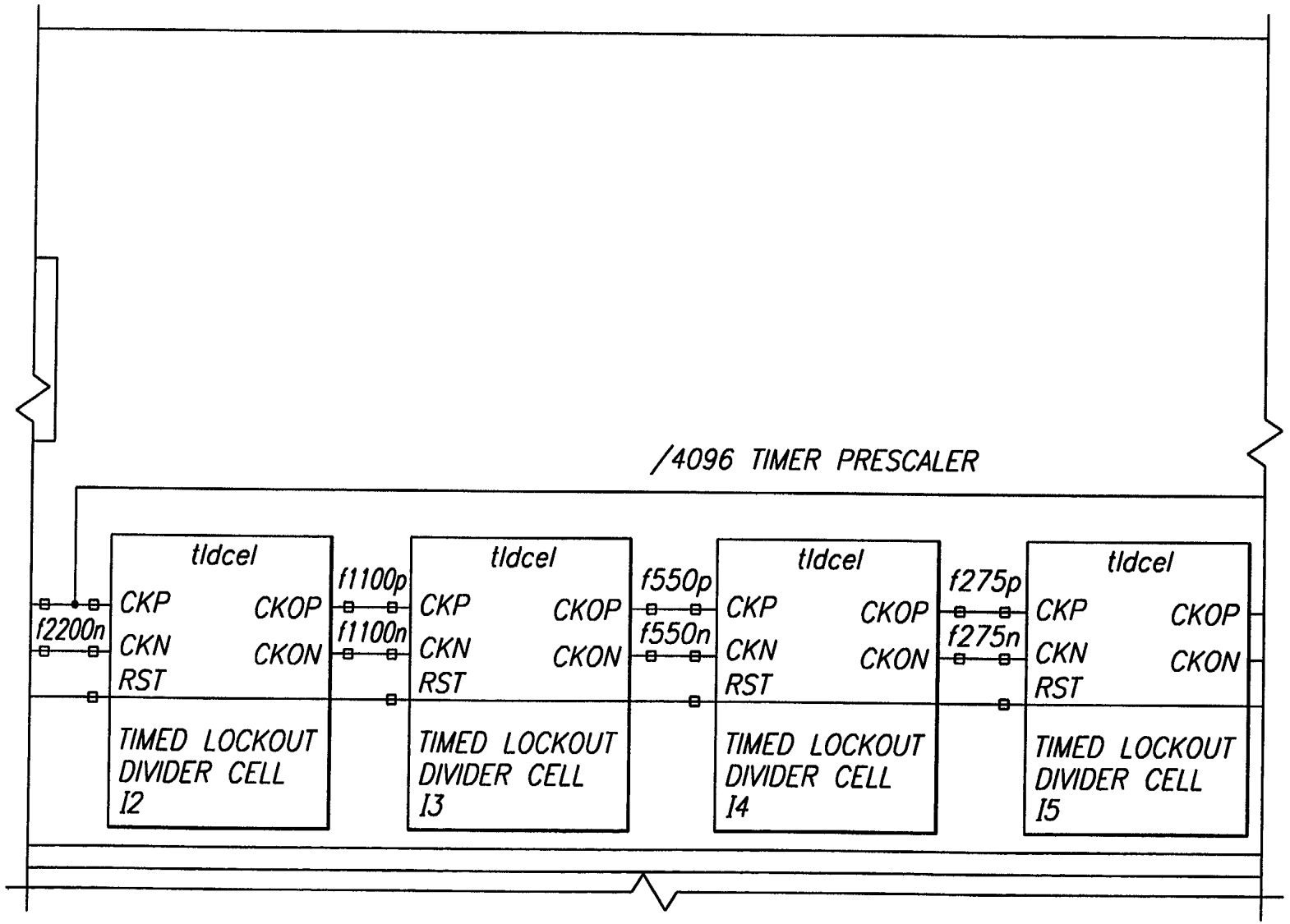

/4096 TIMER PRESCALER
tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT DIVIDER CELL
I2
I3
I4
I5
f2200n
f1100p
f1100n
f550p
f550n
f275p
f275n

Fig 7.10AB

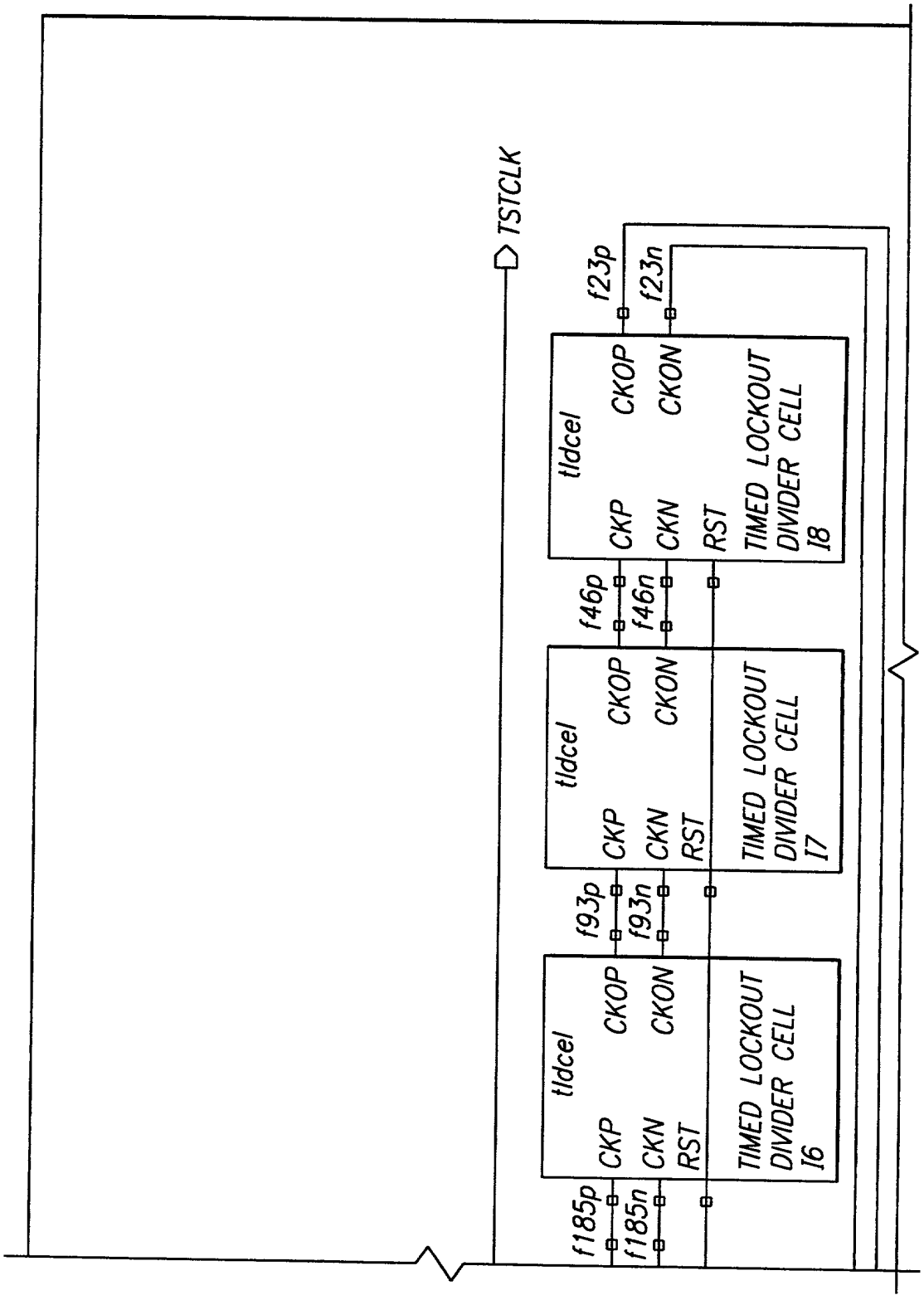

TSTCLK
tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT DIVIDER CELL I6
TIMED LOCKOUT DIVIDER CELL I7
TIMED LOCKOUT DIVIDER CELL I8
f185p
f185n
f93p
f93n
f46p
f46n
f23p
f23n

FIG. 11

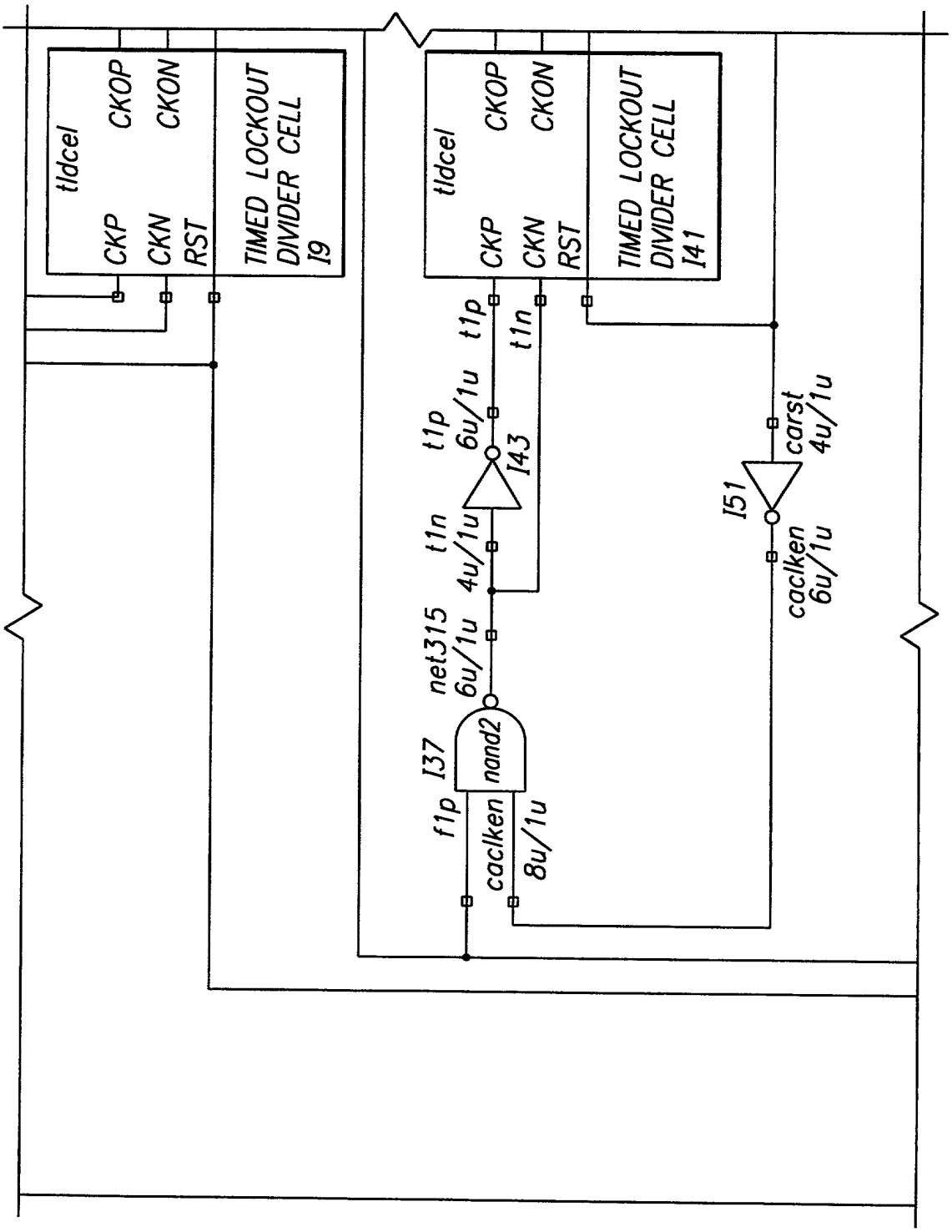

tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT
DIVIDER CELL
I9
tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT
DIVIDER CELL
I41
t1p
t1n
t1p
6u/1u
I43
t1n
4u/1u
net315
6u/1u
I37
nand2
f1p
caclken
8u/1u
I51
carst
4u/1u
caclken
6u/1u

FIG 11.10BA

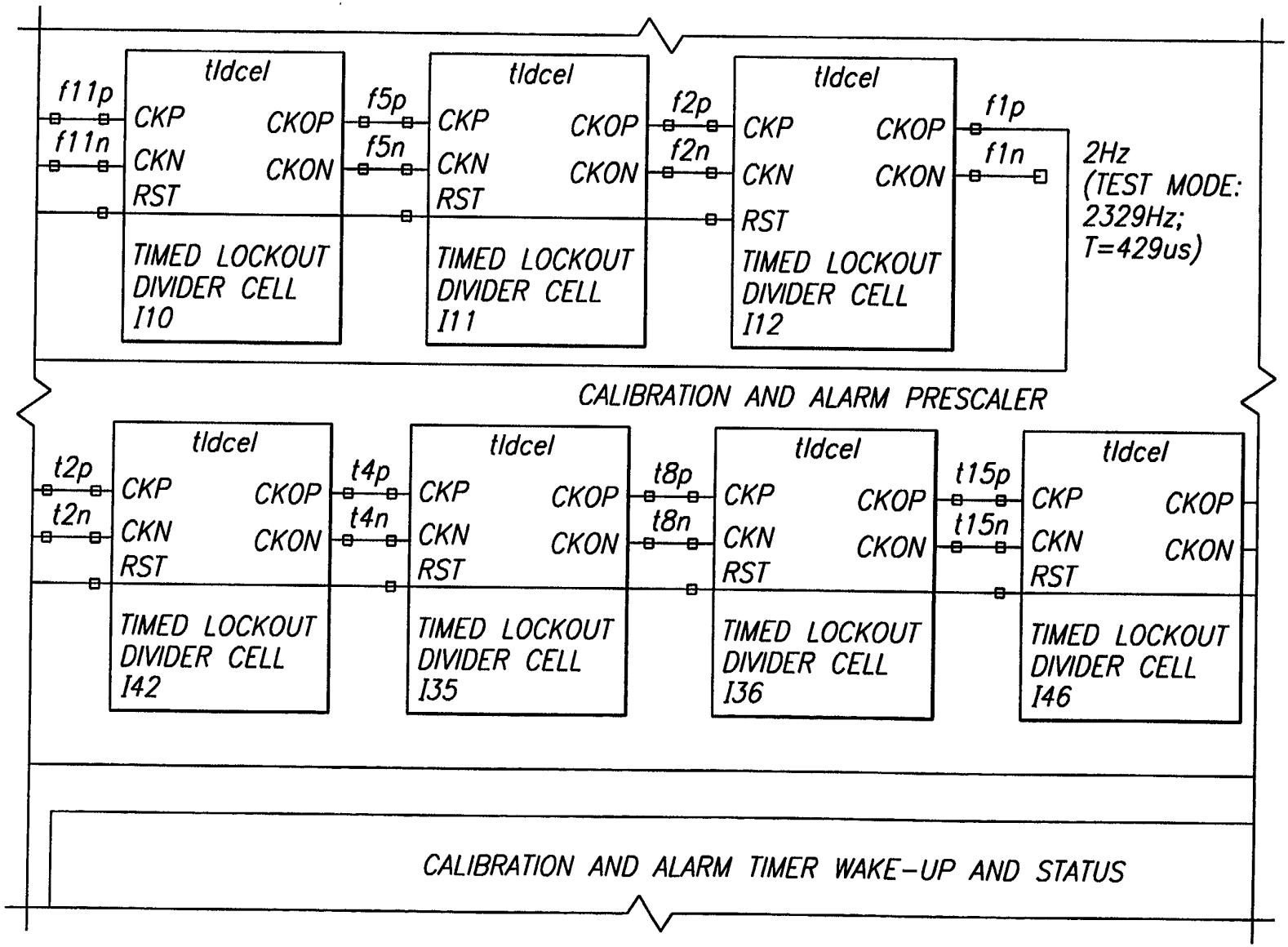

tldcel
f11p
f11n
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT DIVIDER CELL I10
f5p
f5n
TIMED LOCKOUT DIVIDER CELL I11
f2p
f2n
TIMED LOCKOUT DIVIDER CELL I12
f1p
f1n
2Hz
(TEST MODE: 2329Hz; T=429us)
CALIBRATION AND ALARM PRESCALER
t2p
t2n
TIMED LOCKOUT DIVIDER CELL I42
t4p
t4n
TIMED LOCKOUT DIVIDER CELL I35
t8p
t8n
TIMED LOCKOUT DIVIDER CELL I36
t15p
t15n
TIMED LOCKOUT DIVIDER CELL I46
CALIBRATION AND ALARM TIMER WAKE-UP AND STATUS

Fig 7.1088

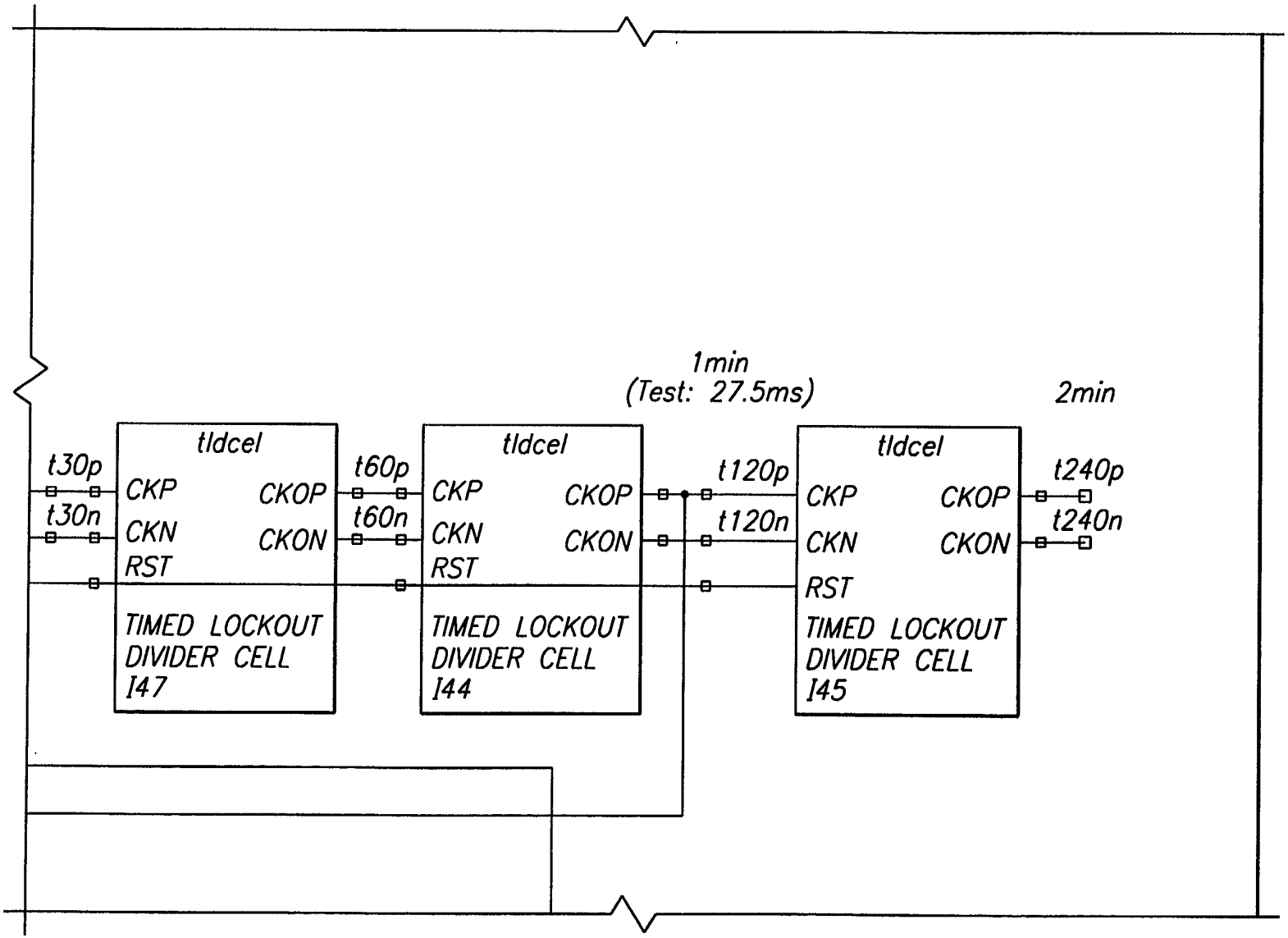

1min
(Test: 27.5ms)
2min
tldcel
t30p
t30n
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT
DIVIDER CELL
I47
t60p
t60n
I44
t120p
t120n
I45
t240p
t240n

Fig 7.10BC

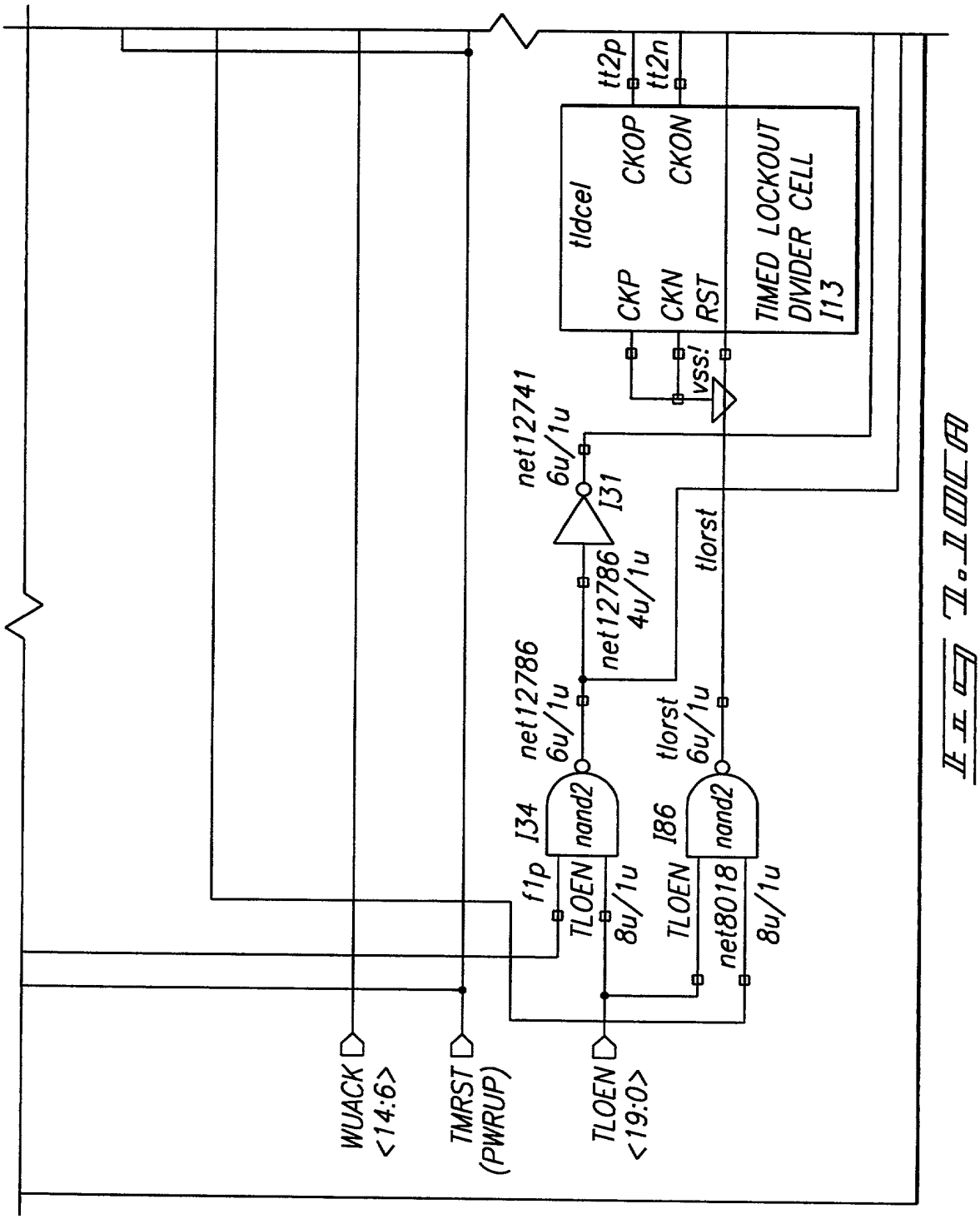

WUACK
<14:6>
TMRST
(PWRUP)
TLOEN
<19:0>
f1p
I34
nand2
TLOEN
8u/1u
net12786
6u/1u
net12786
4u/1u
I31
net12741
6u/1u
I86
nand2
TLOEN
net8018
8u/1u
tlorst
6u/1u
tlorst
vss!
tldcel
CKP
CKN
RST
CKOP
CKON
tl2p
tl2n
TIMED LOCKOUT
DIVIDER CELL
I13

FIG. 11

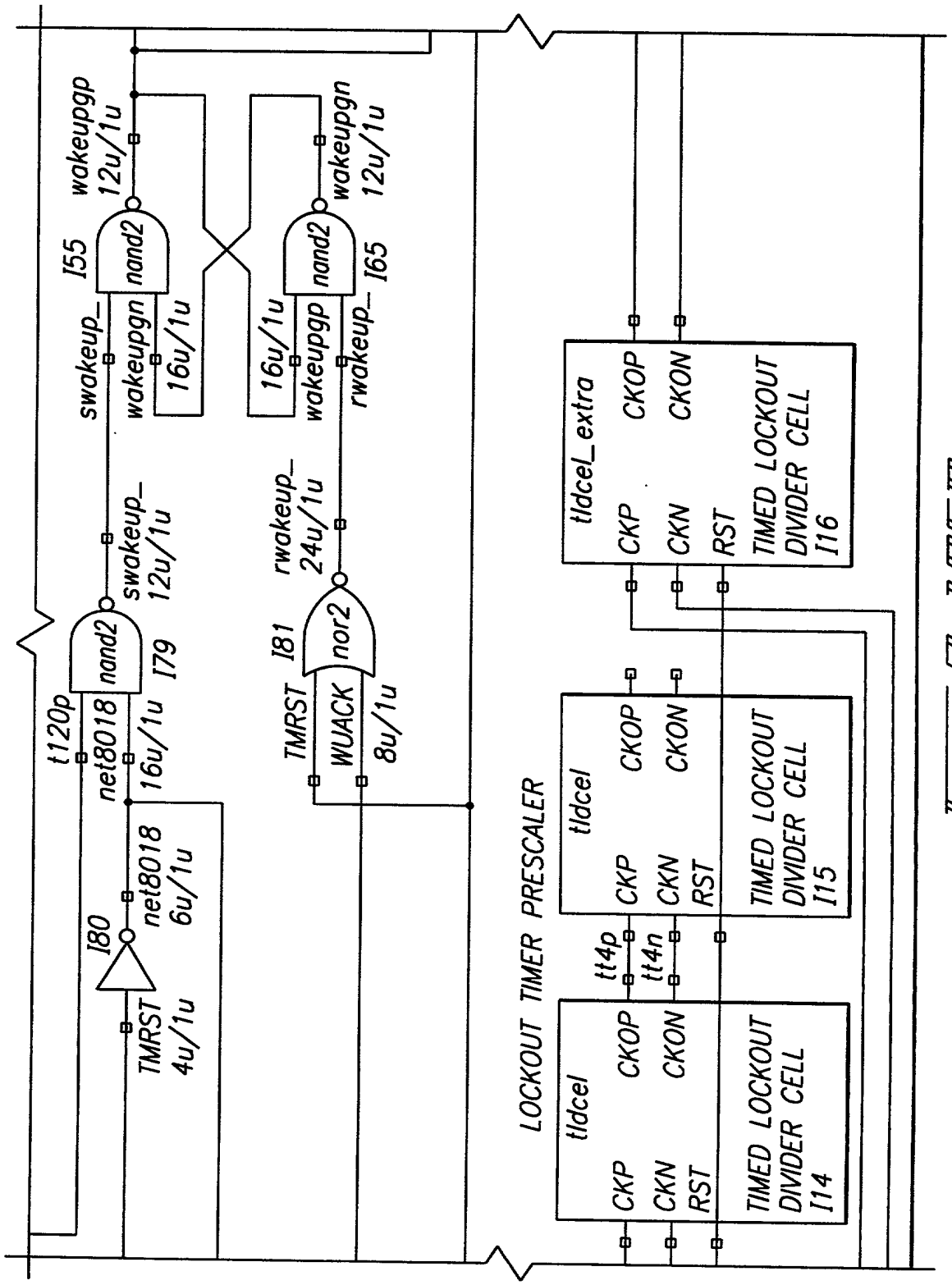

LOCKOUT TIMER PRESCALER
tldcel
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT DIVIDER CELL
I14
I15
tldceL_extra
I16
t4p
t4n
t120p
net8018
16u/1u
6u/1u
I80
TMRST
4u/1u
I79
nand2
swakeup_
12u/1u
wakeupgn
16u/1u
I55
wakeupgp
12u/1u
I81
nor2
WUACK
8u/1u
rwakeup_
24u/1u
I65
rwakeup_
wakeupgp
wakeupgn

FIG. 11

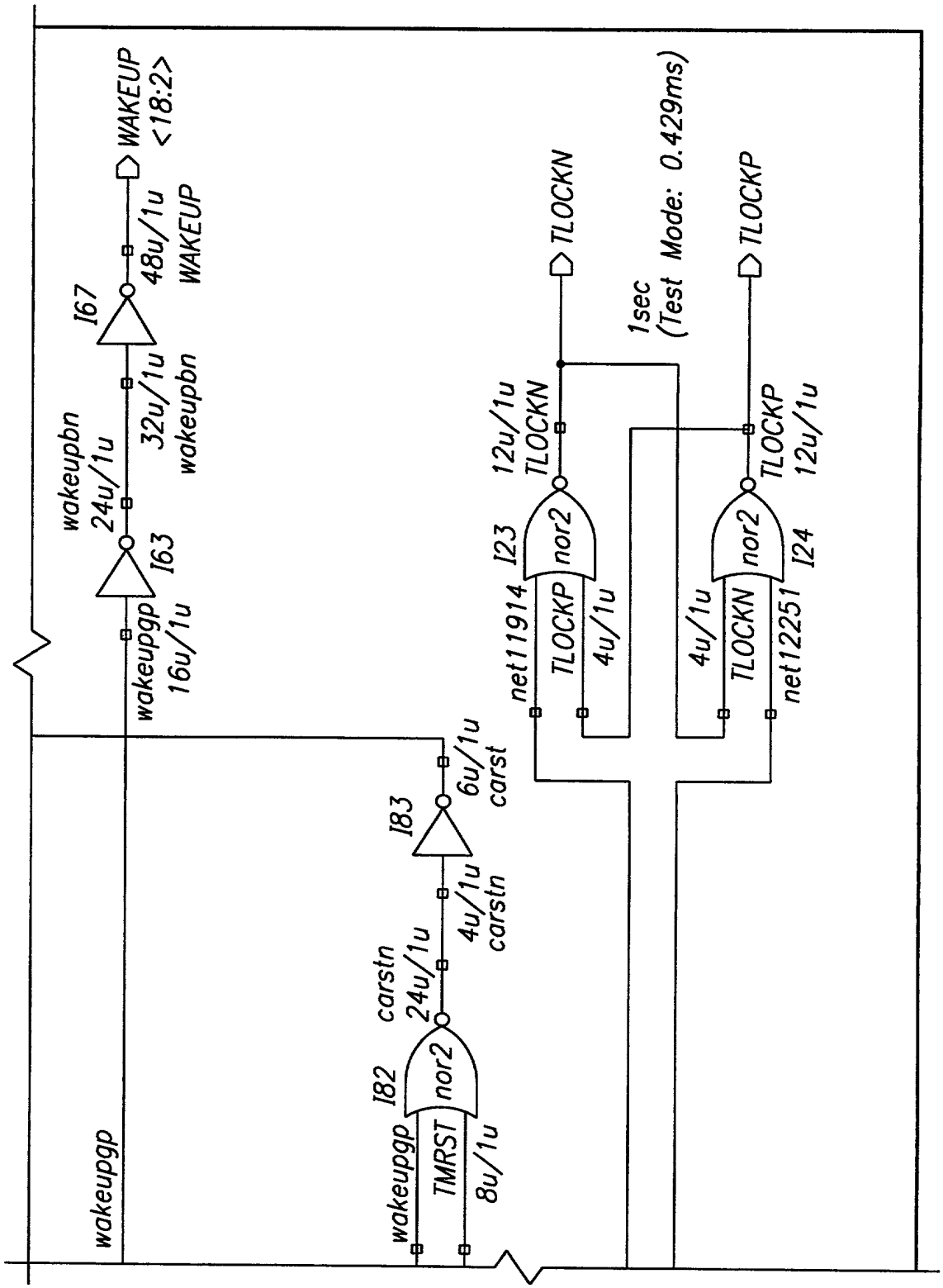

WAKEUP
<18:2>
48u/1u
WAKEUP
I67
32u/1u
wakeupbn
wakeupbn
24u/1u
I63
wakeupgp
16u/1u
wakeupgp
TLOCKN
12u/1u
TLOCKN
I23
nor2
net11914
TLOCKP
4u/1u
1sec
(Test Mode: 0.429ms)
TLOCKP
TLOCKP
12u/1u
4u/1u
TLOCKN
nor2
I24
net12251
6u/1u
carst
I83
4u/1u
carstn
carstn
24u/1u
I82
nor2
wakeupgp
TMRST
8u/1u
wakeupgp

FIG. 10

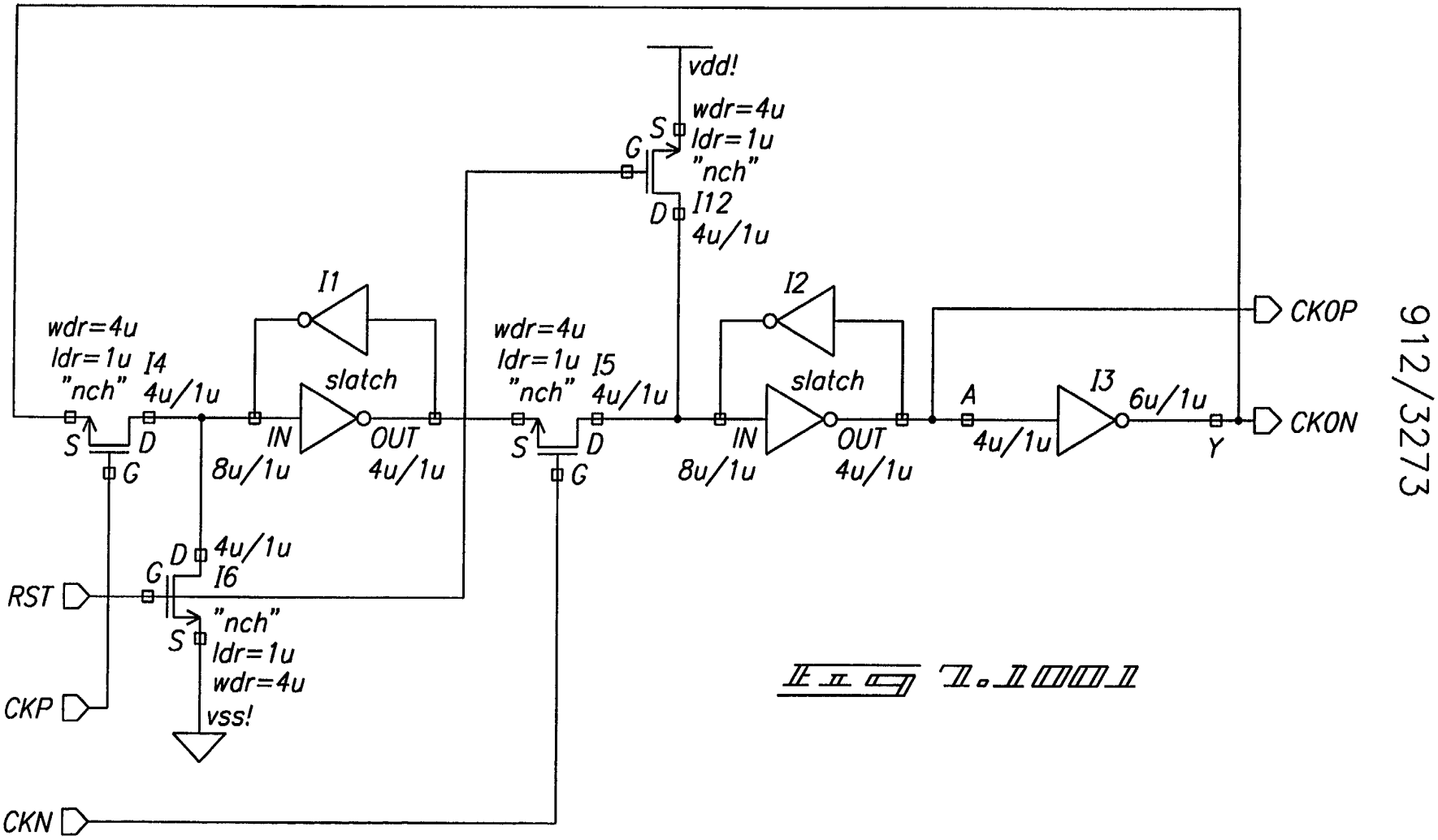


Fig 11.1001

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TOTTSO"£90228860

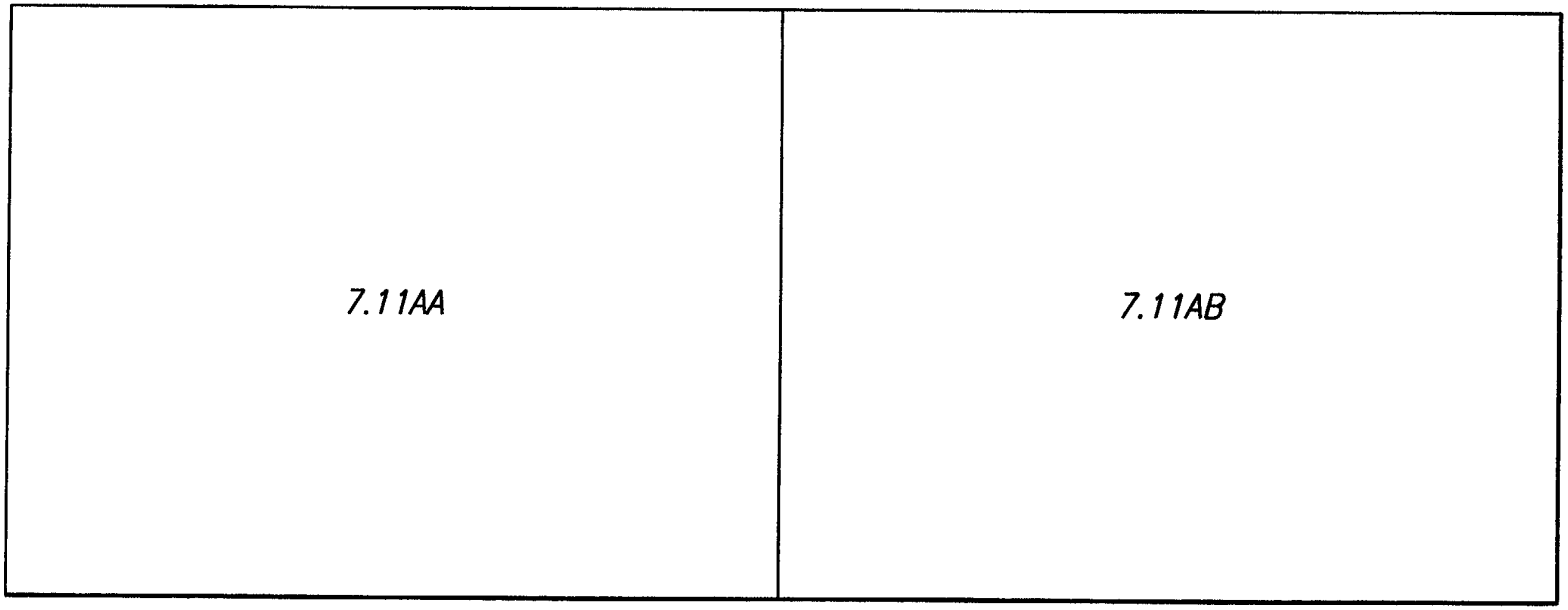


Fig 7.11

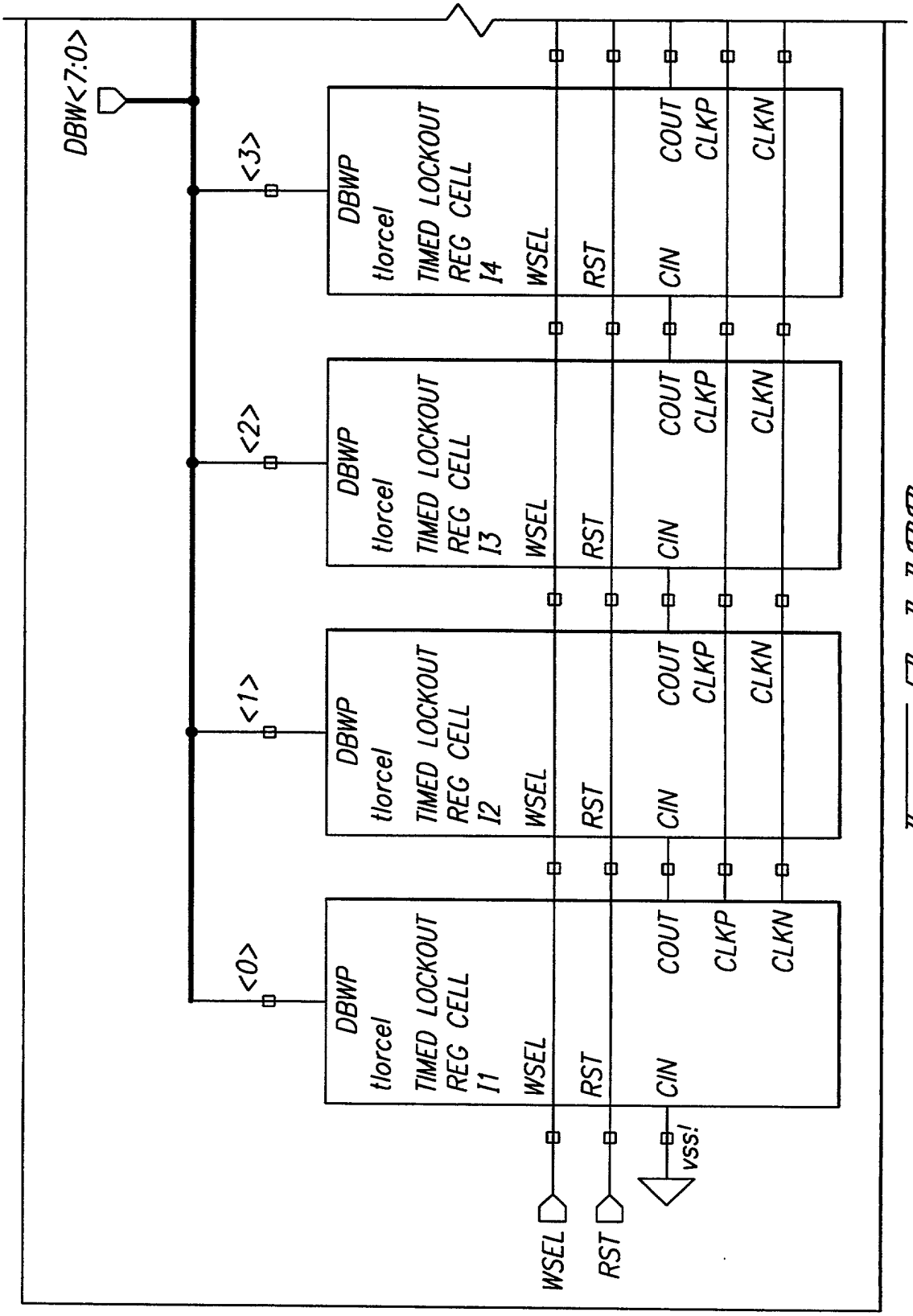

DBW<7:0>
<0>
<1>
<2>
<3>
DBWP
tlorcel
TIMED LOCKOUT
REG CELL
I1
I2
I3
I4
WSEL
RST
CIN
COUT
CLKP
CLKN
vss!

FIG. 11AA

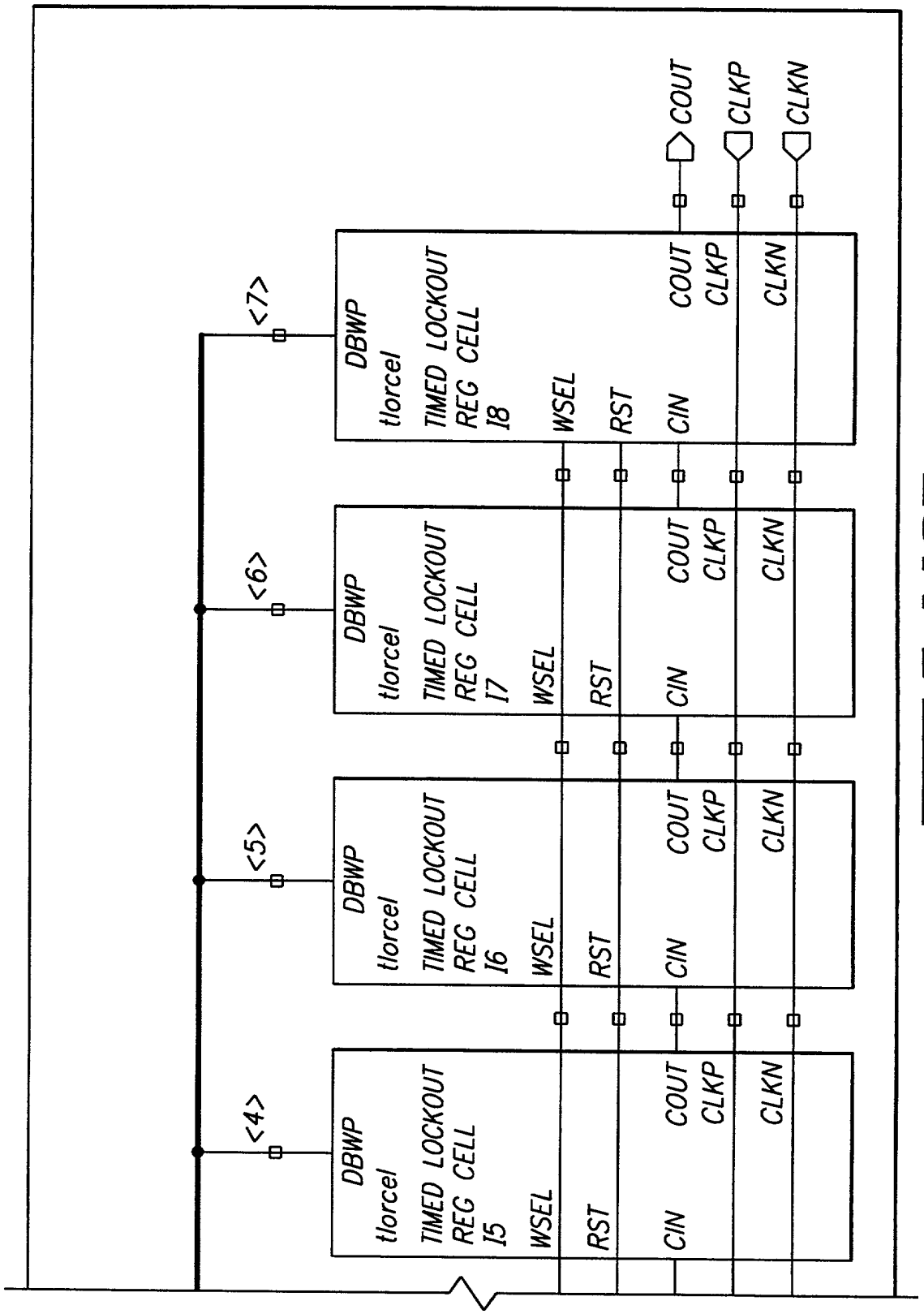

<4>
<5>
<6>
<7>
DBWP
tlorcel
TIMED LOCKOUT
REG CELL
I5
I6
I7
I8
WSEL
RST
CIN
COUT
CLKP
CLKN

FIG. 11A

DOC90 E9028860

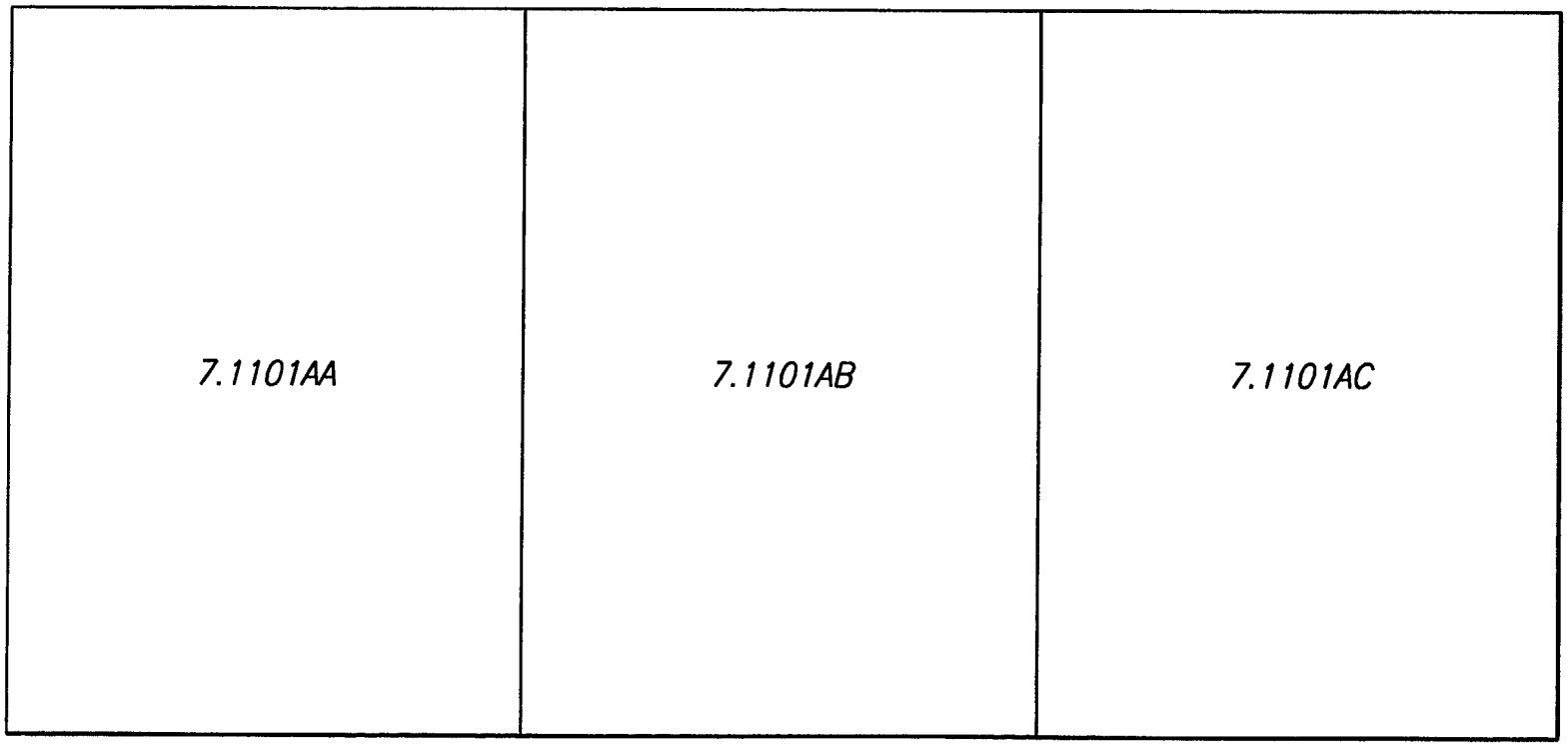


Fig 7.1101

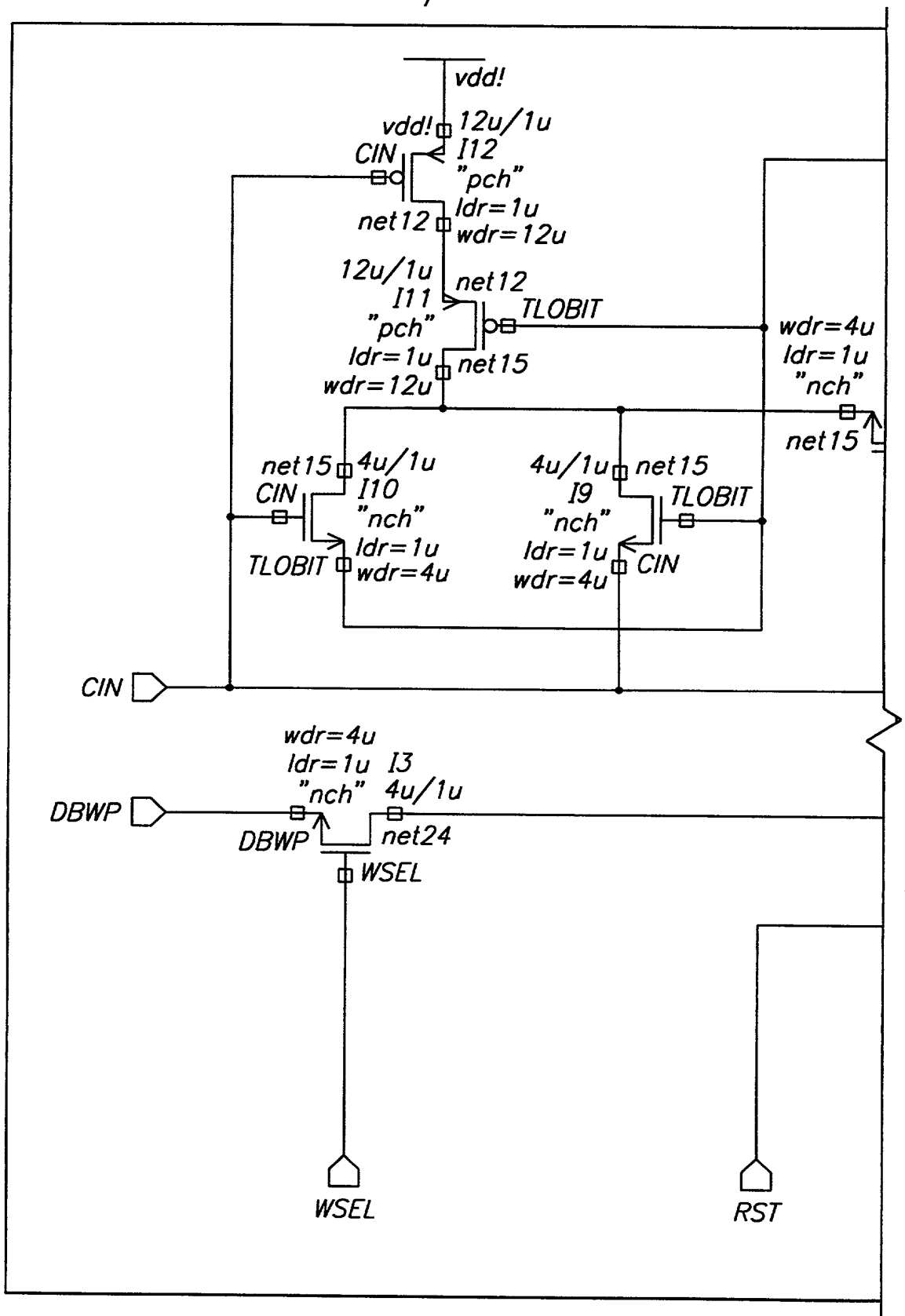

vdd!
vdd!
12u/1u
I12
"pch"
ldr=1u
wdr=12u
CIN
net12
12u/1u
I11
"pch"
ldr=1u
wdr=12u
net12
TLOBIT
net15
wdr=4u
ldr=1u
"nch"
net15
net15
4u/1u
I10
"nch"
ldr=1u
wdr=4u
CIN
TLOBIT
4u/1u
I9
"nch"
ldr=1u
wdr=4u
net15
TLOBIT
CIN
CIN
wdr=4u
ldr=1u
"nch"
I3
4u/1u
DBWP
DBWP
net24
WSEL
WSEL
RST

Fig 7.1111AA

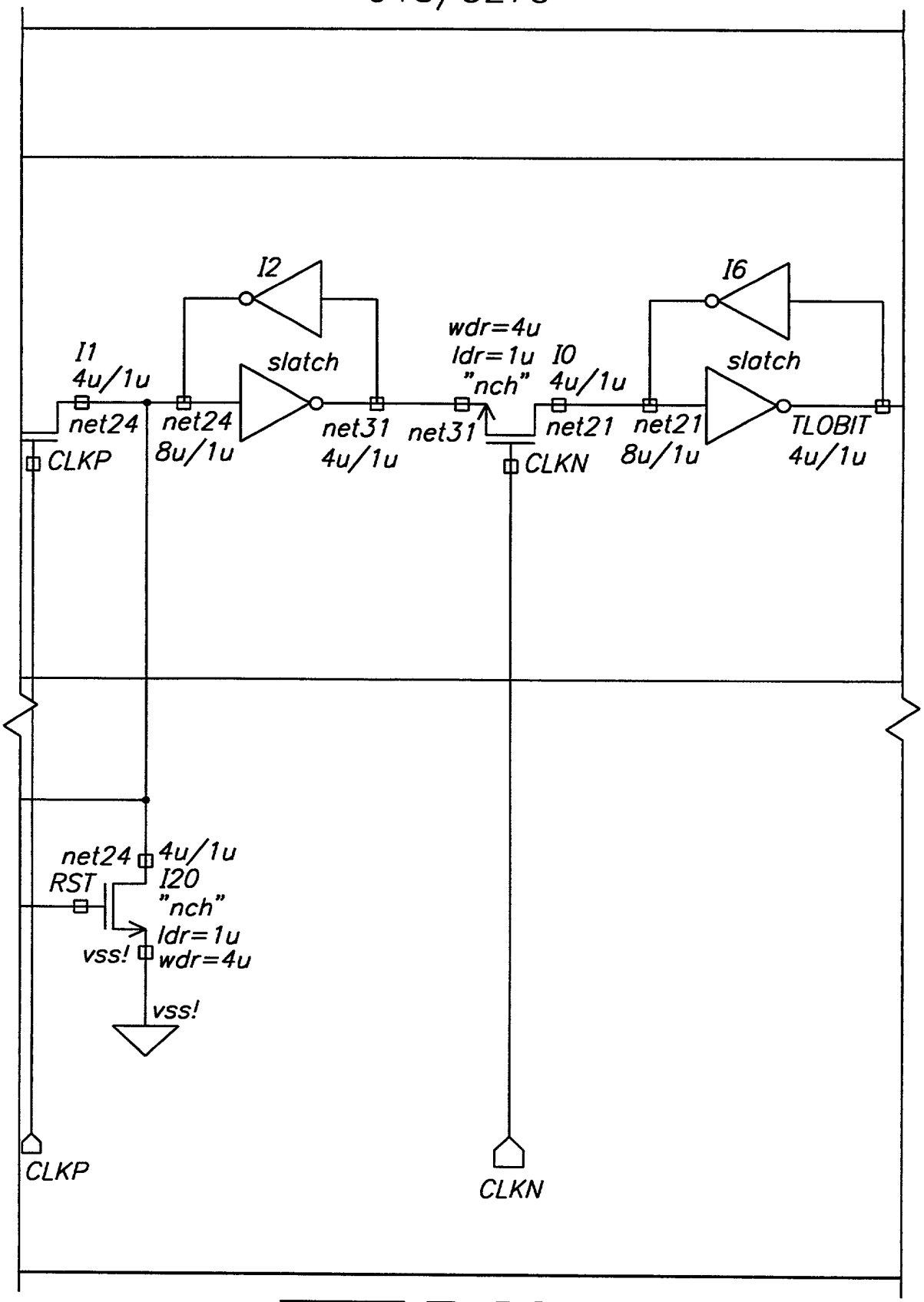

I2
I6
I1
4u/1u
slatch
wdr=4u
ldr=1u
"nch"
I0
4u/1u
slatch
net24
net24
8u/1u
net31
4u/1u
net31
net21
net21
8u/1u
TLOBIT
4u/1u
CLKP
CLKN
net24
4u/1u
RST
I20
"nch"
ldr=1u
vss!
wdr=4u
vss!
CLKP
CLKN

Fig 7.1.1.0.1.A.B

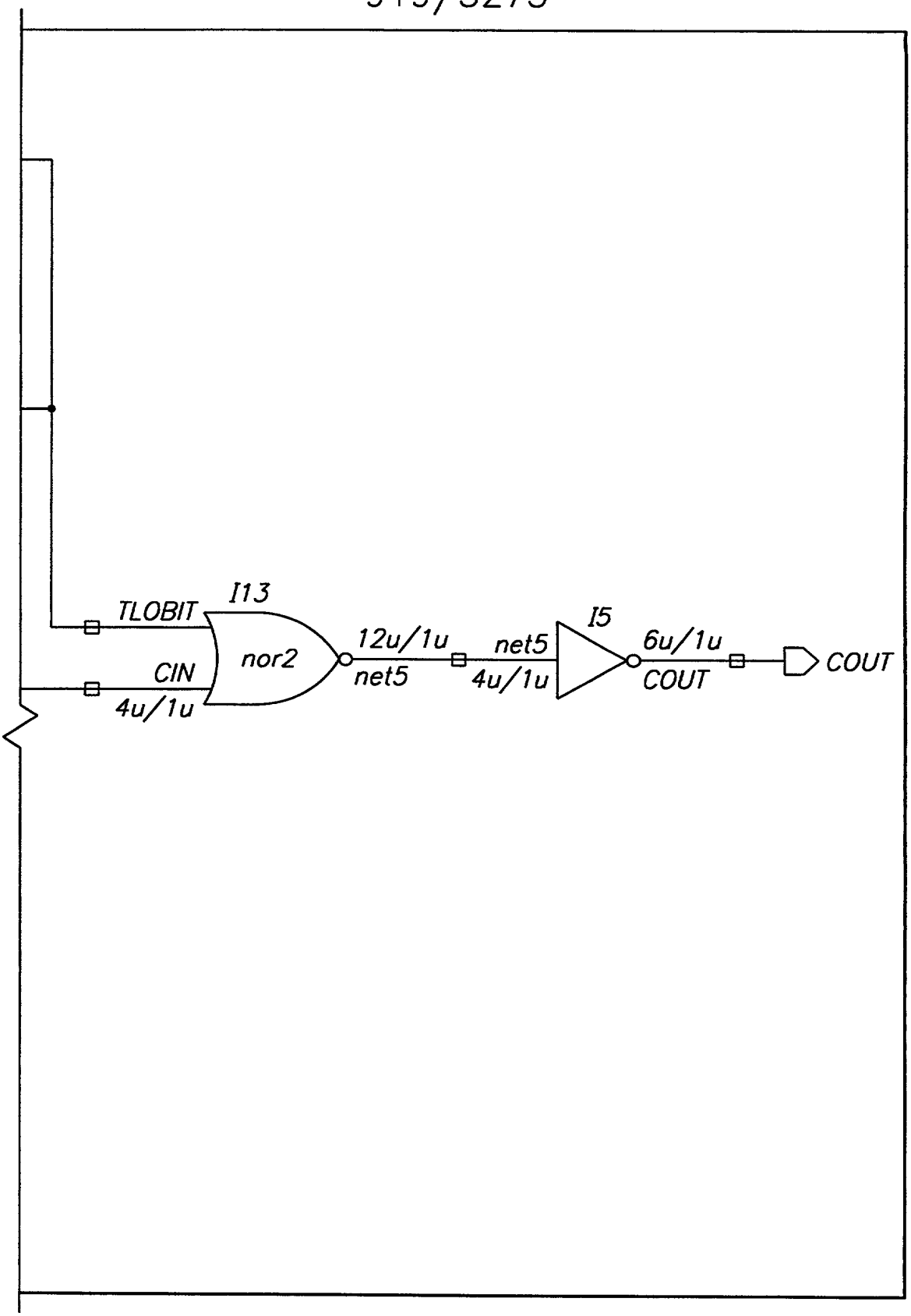

TLOBIT
CIN
4u/1u
I13
nor2
12u/1u
net5
net5
4u/1u
I5
6u/1u
COUT
COUT

Fig 7.11(a)

IDT190 E9023360

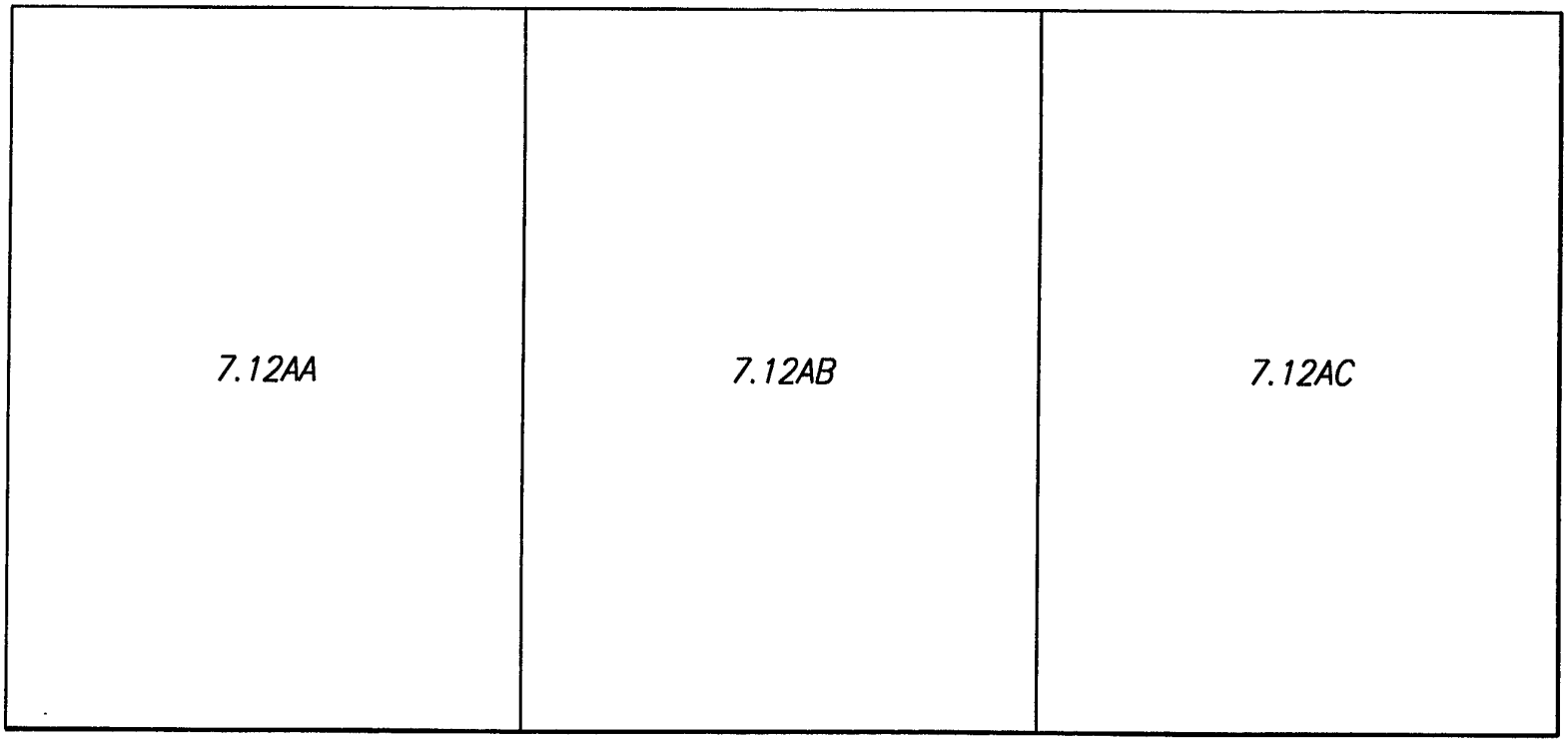


Fig 7.12

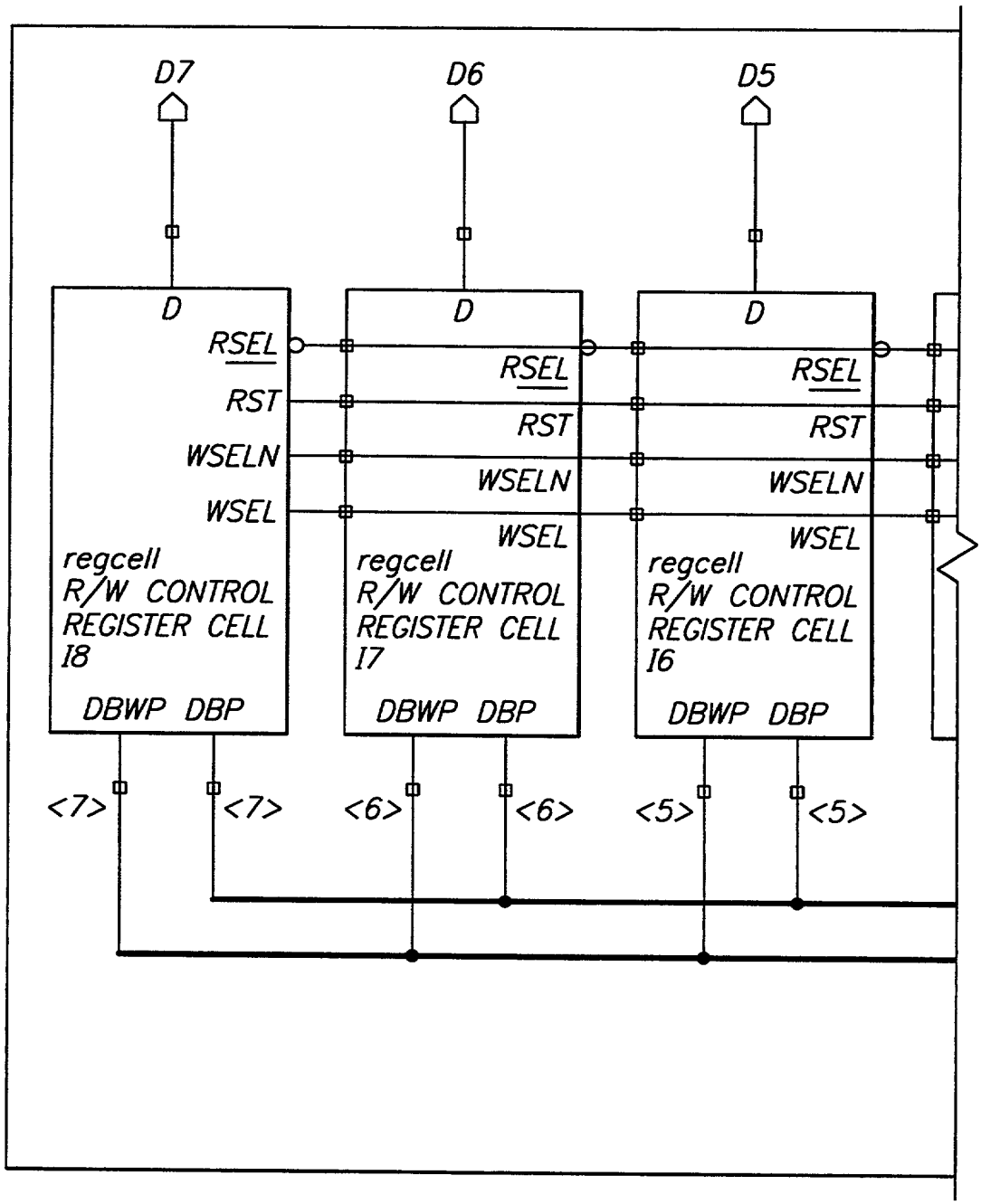

D7
D6
D5
D
D
D
RSEL
RST
WSELN
WSEL
RSEL
RST
WSELN
WSEL
RSEL
RST
WSELN
WSEL
regcell
R/W CONTROL
REGISTER CELL
I8
regcell
R/W CONTROL
REGISTER CELL
I7
regcell
R/W CONTROL
REGISTER CELL
I6
DBWP DBP
DBWP DBP
DBWP DBP
<7>
<7>
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Fig 7.12AA

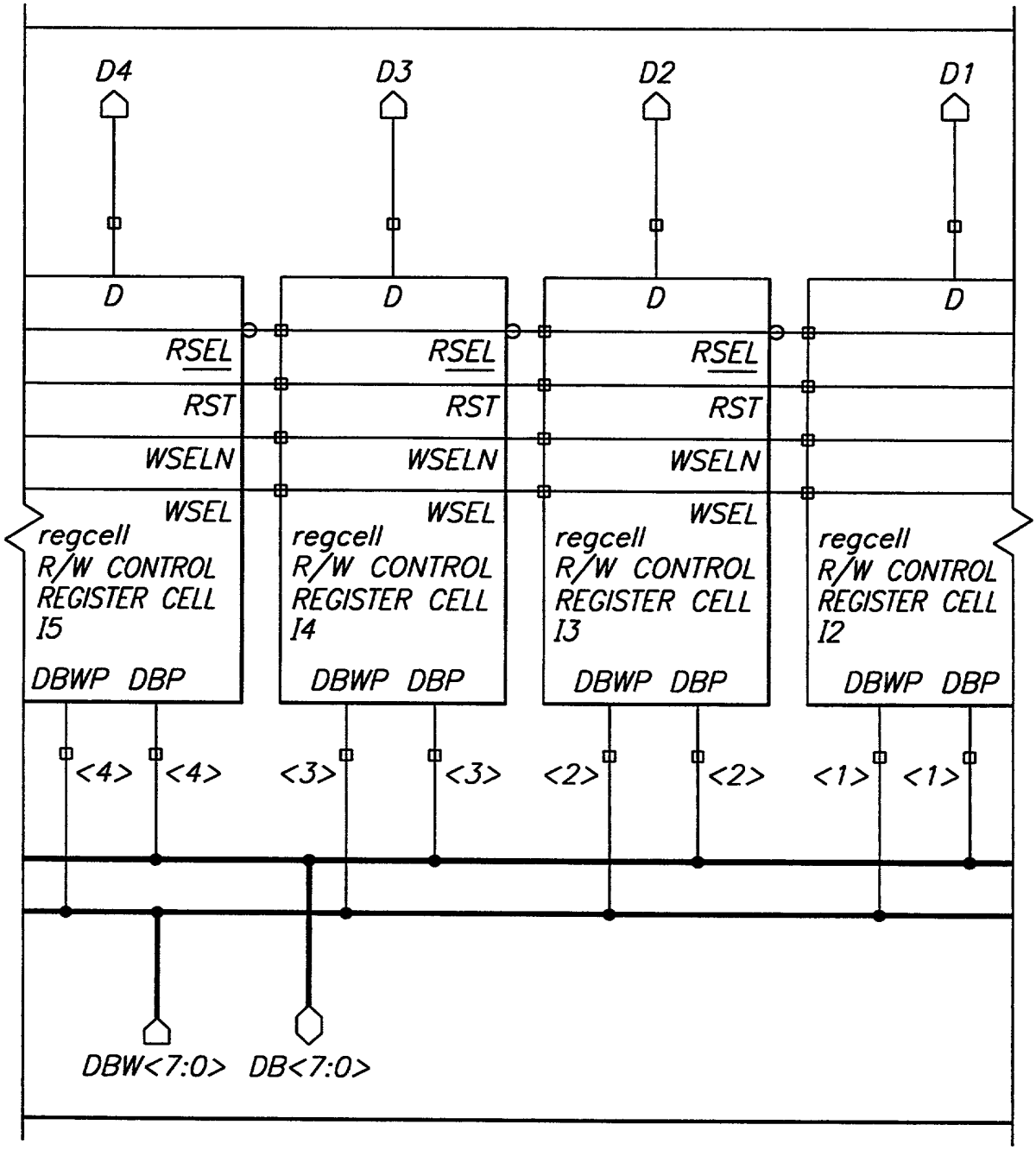

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D2
D1
D
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RST
WSELN
WSEL
regcell
R/W CONTROL
REGISTER CELL
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I4
I3
I2
DBWP DBP
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<3>
<2>
<1>
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Fig 1.12AB

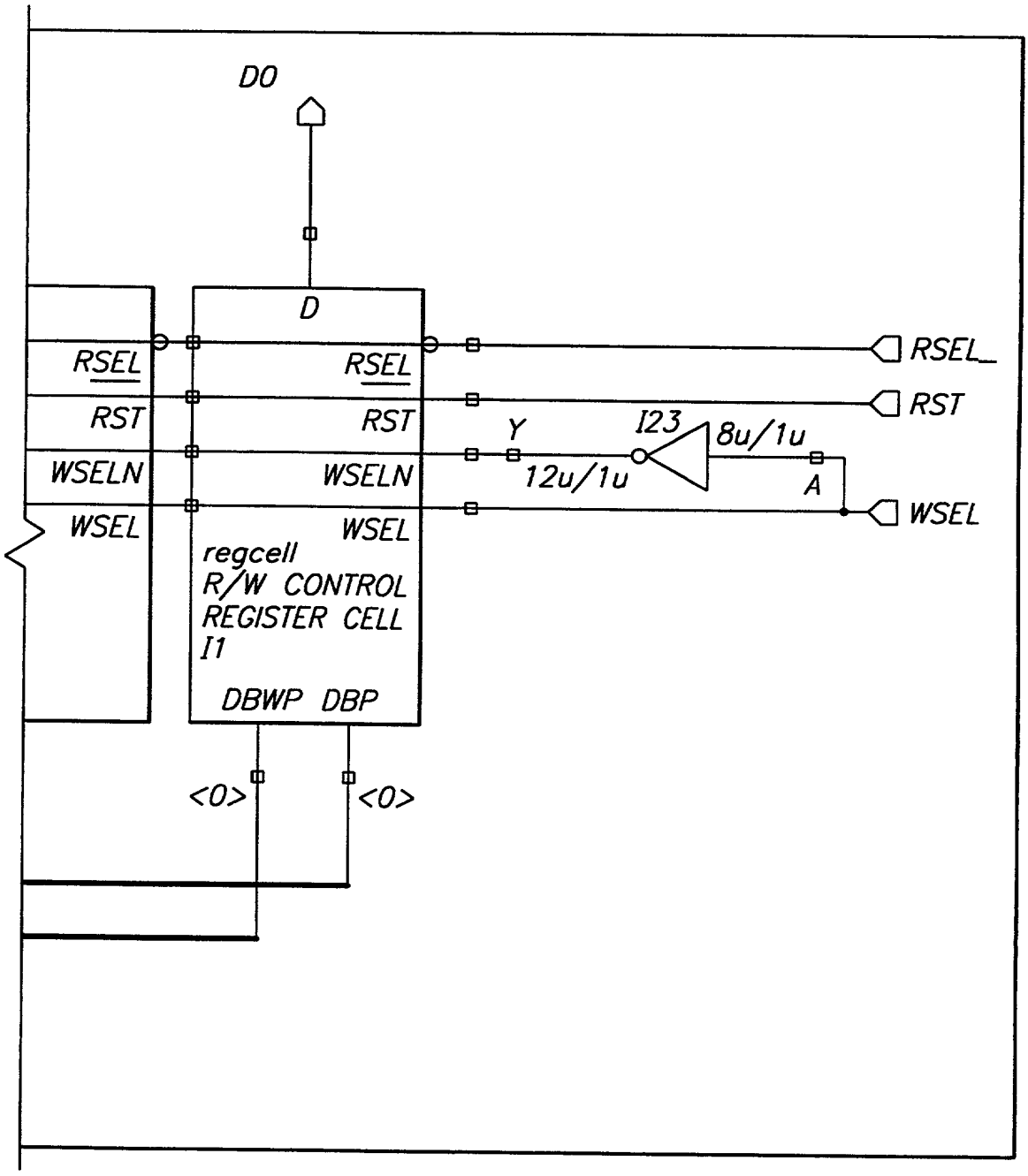
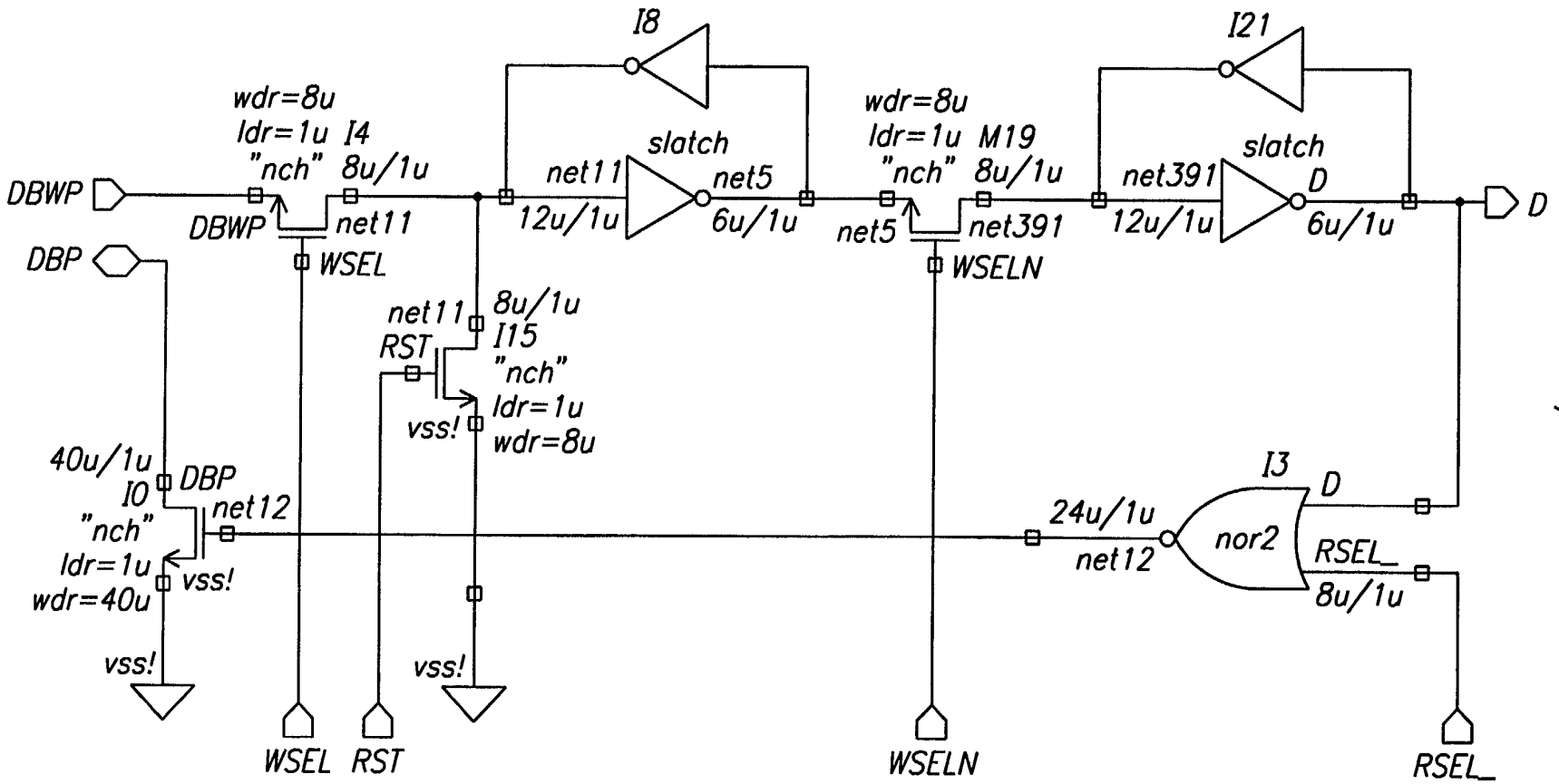

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RSEL
RST
RST
WSELN
WSELN
WSEL
WSEL
regcell
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REGISTER CELL
I1
DBWP DBP
<0>
<0>
Y
I23
8u/1u
12u/1u
A
RSEL_
RST
WSEL

Fig 7.12AC



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Fig 1.12001

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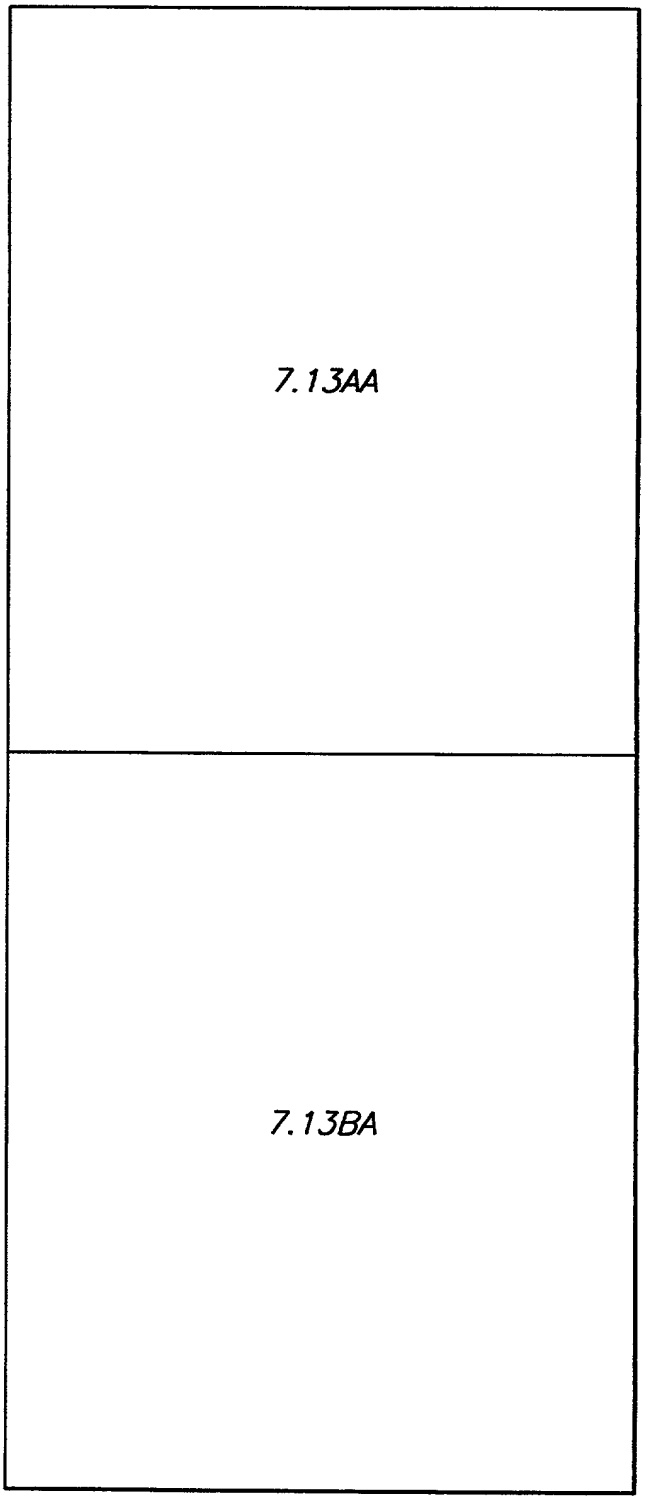


Fig 7.13

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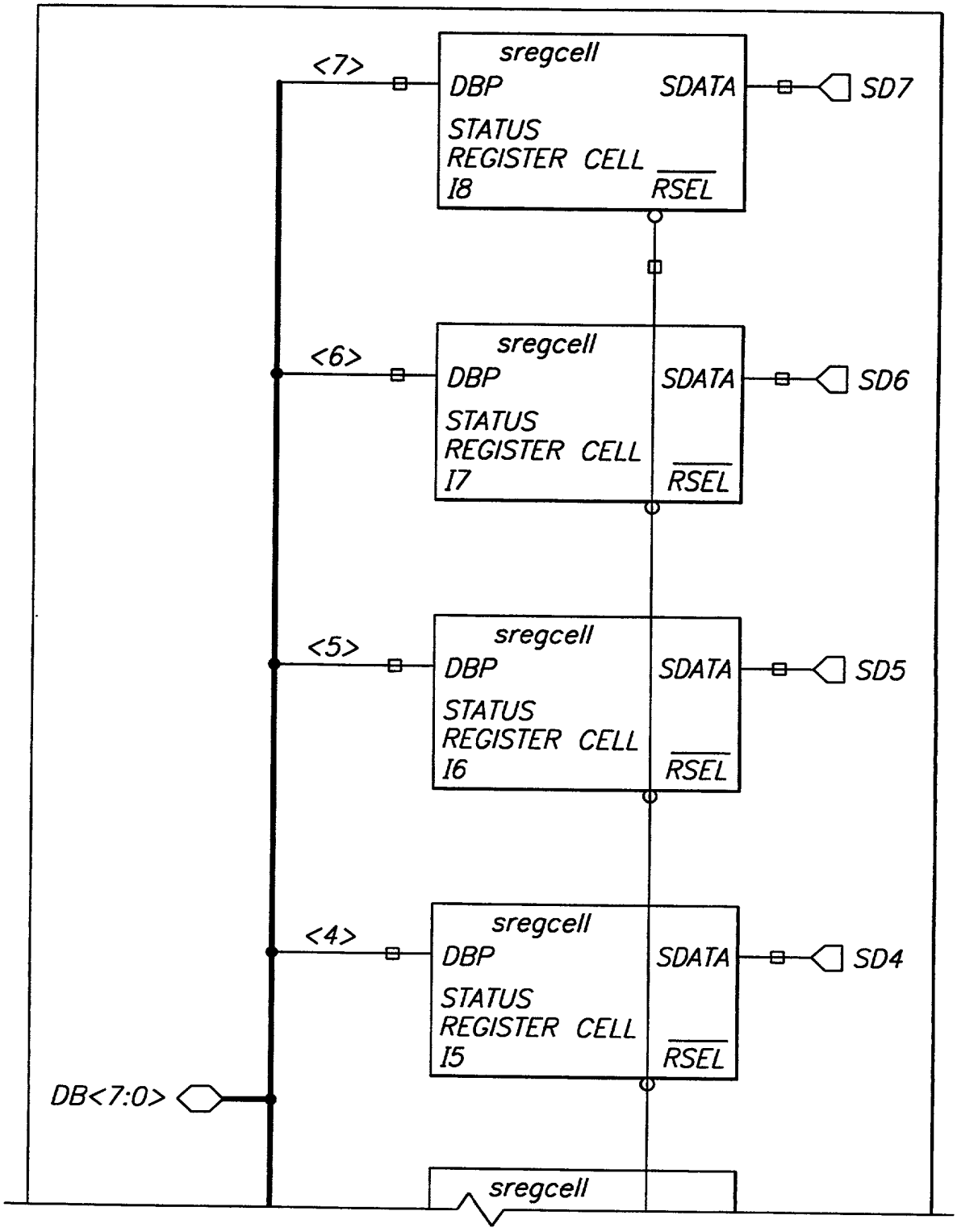
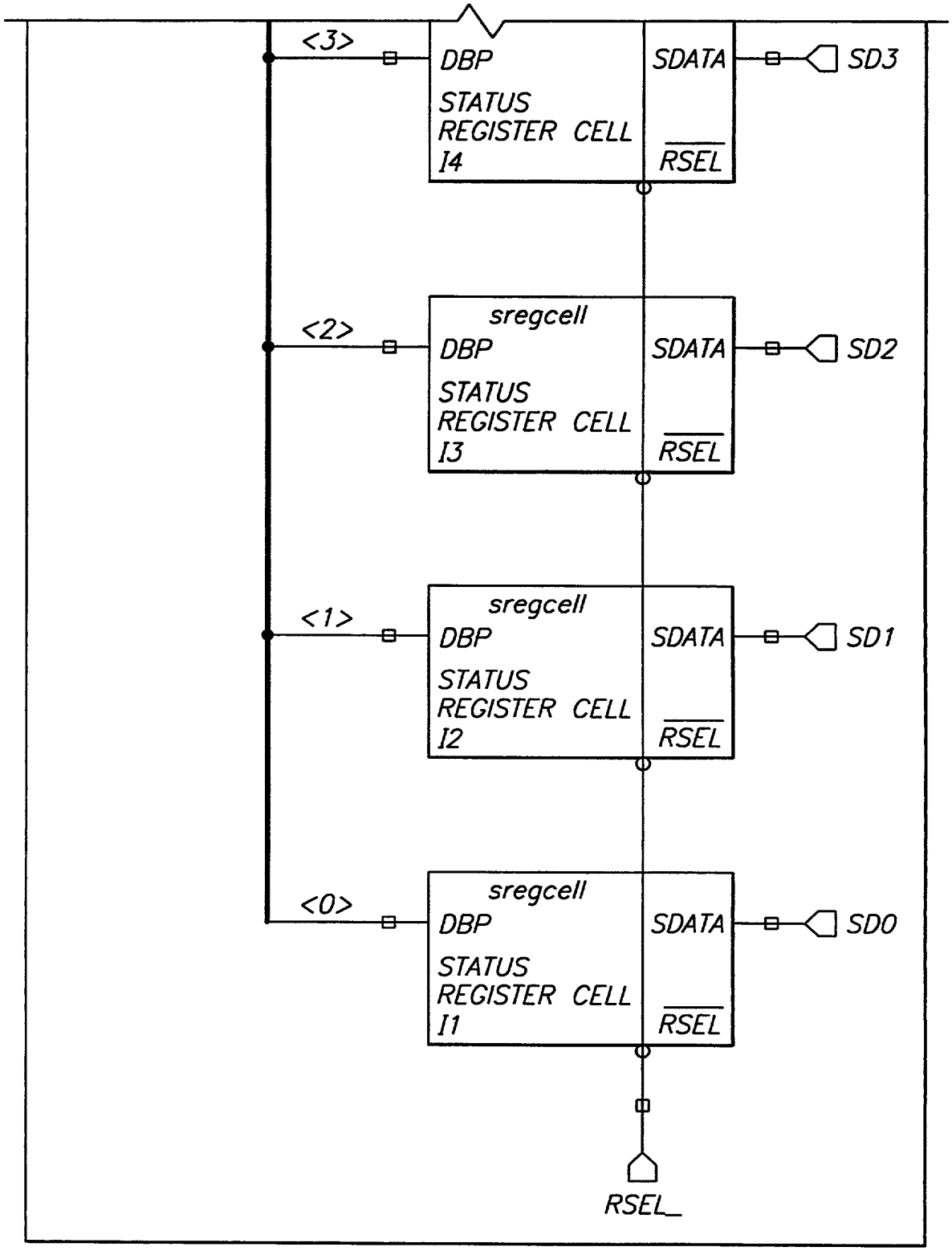

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Fig 11.13AA


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Фиг 7.13ВА

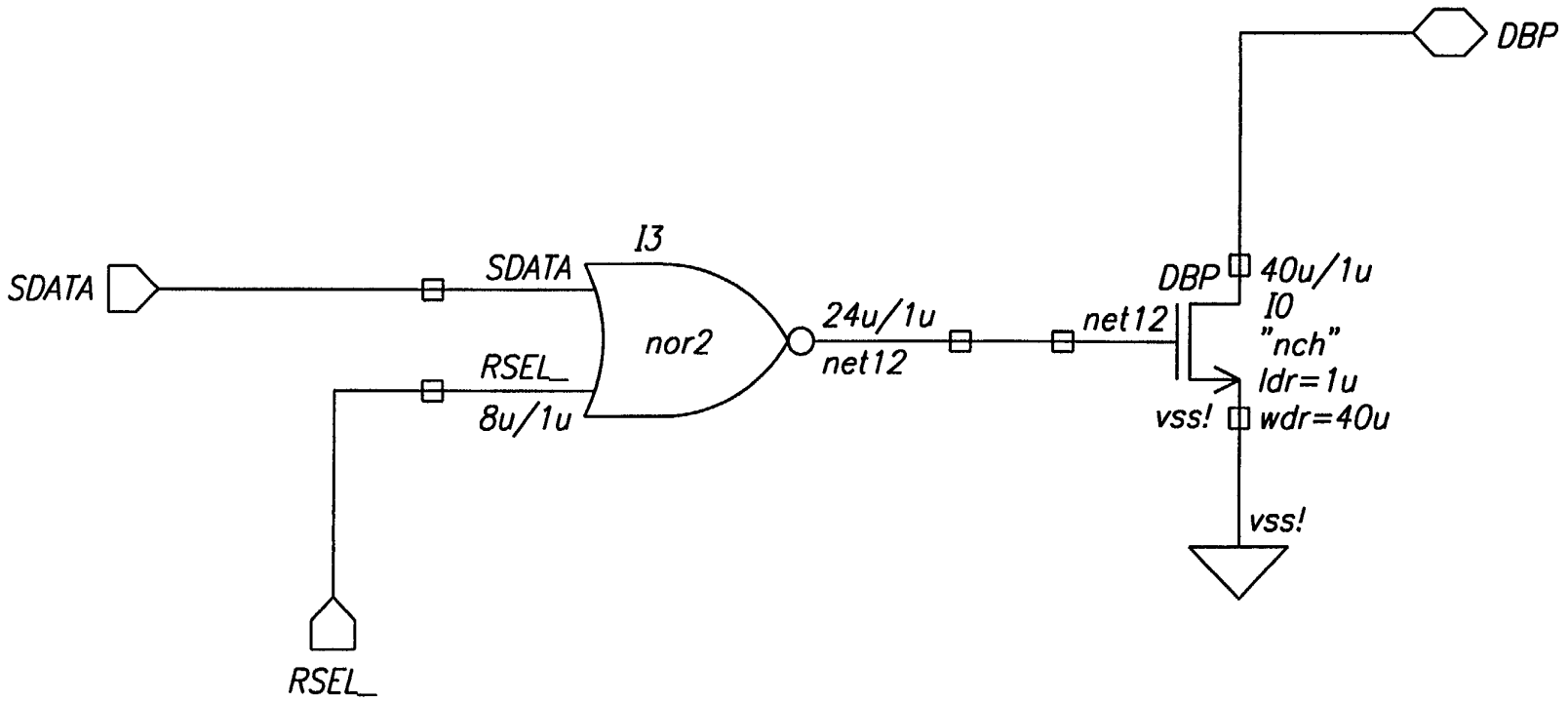

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net12
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vss!
RSEL_

Fig 7.1301

DOC 90 E9022660

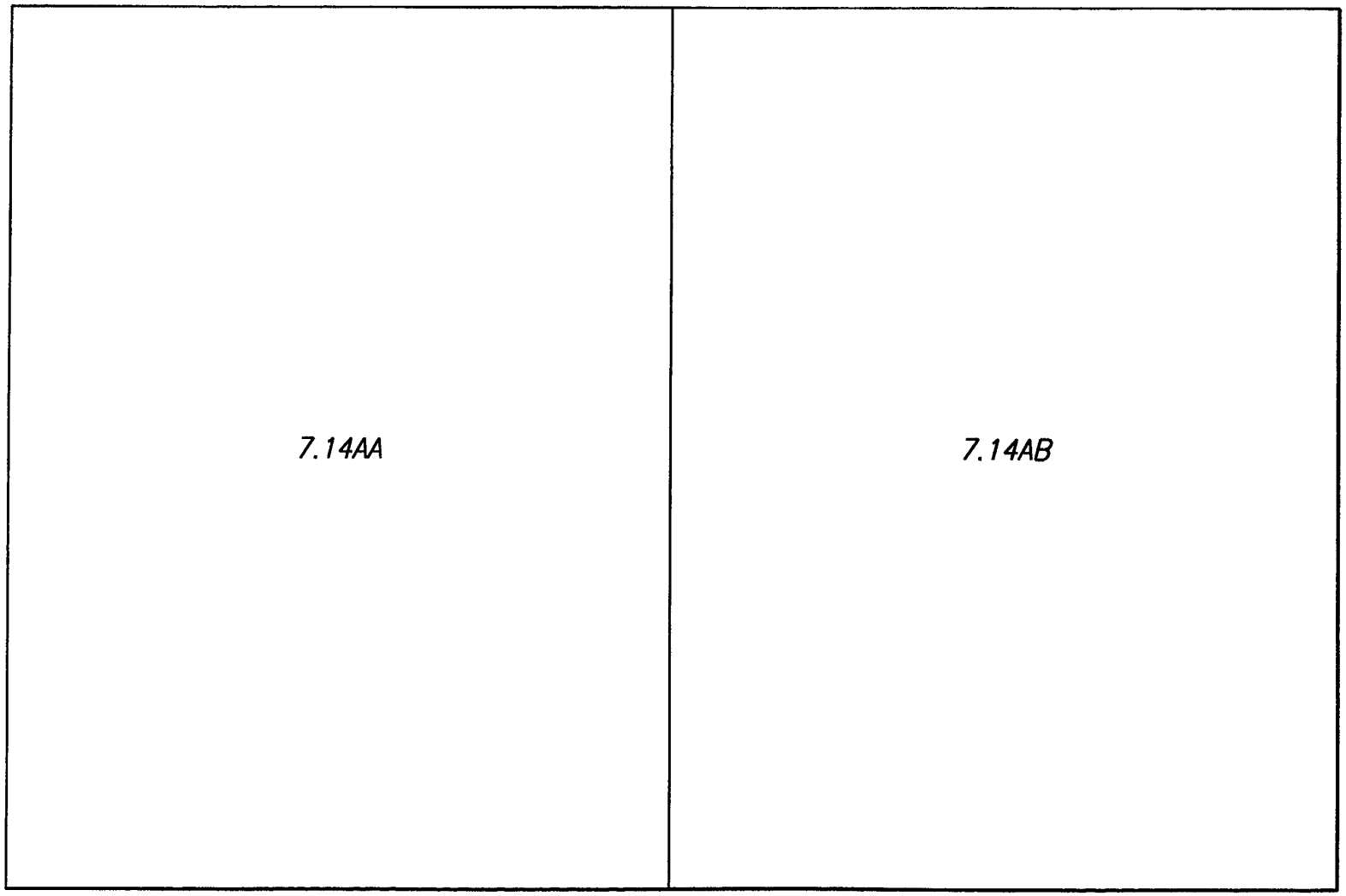
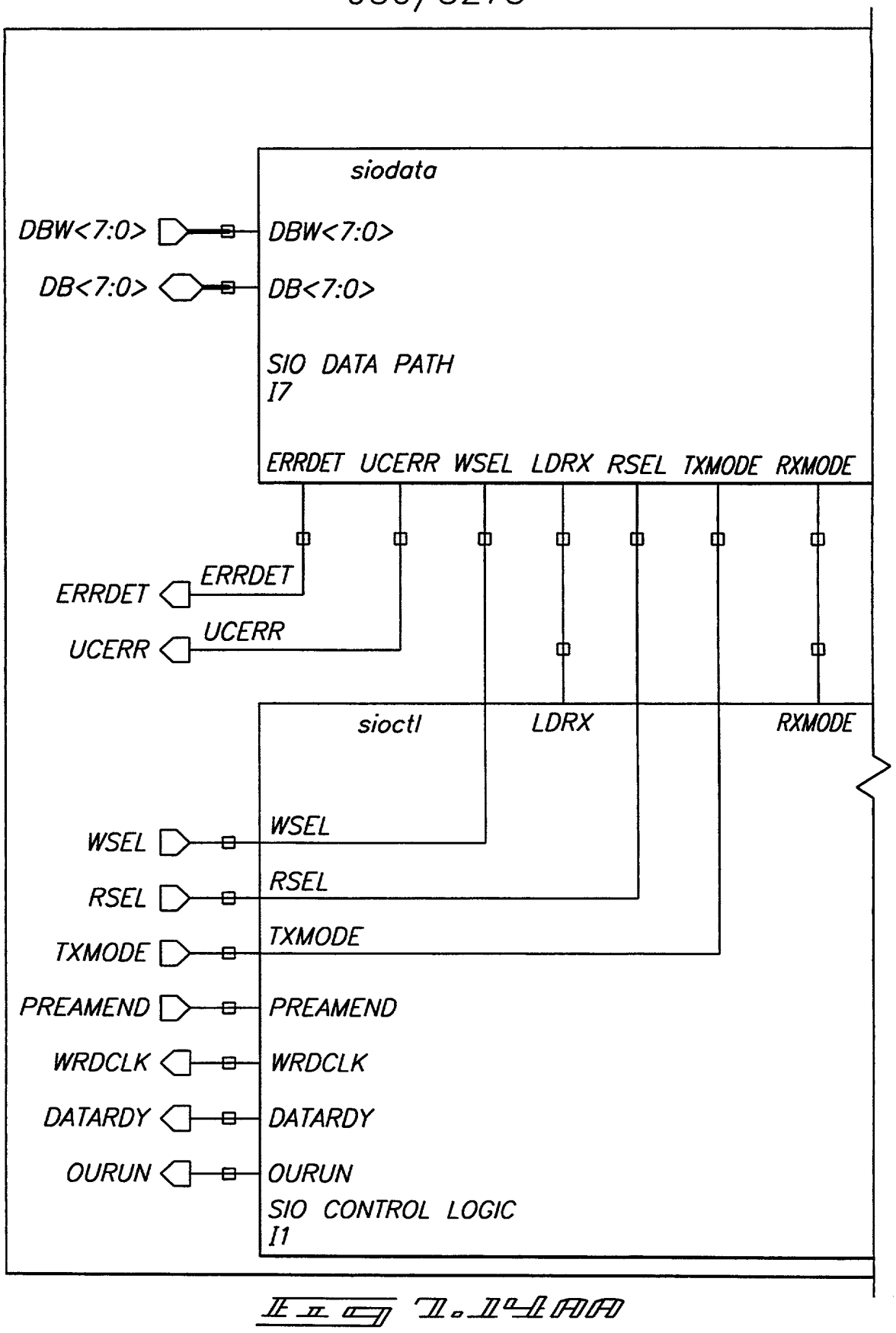


Fig 7.14

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Document Control Number 1358-930-3273

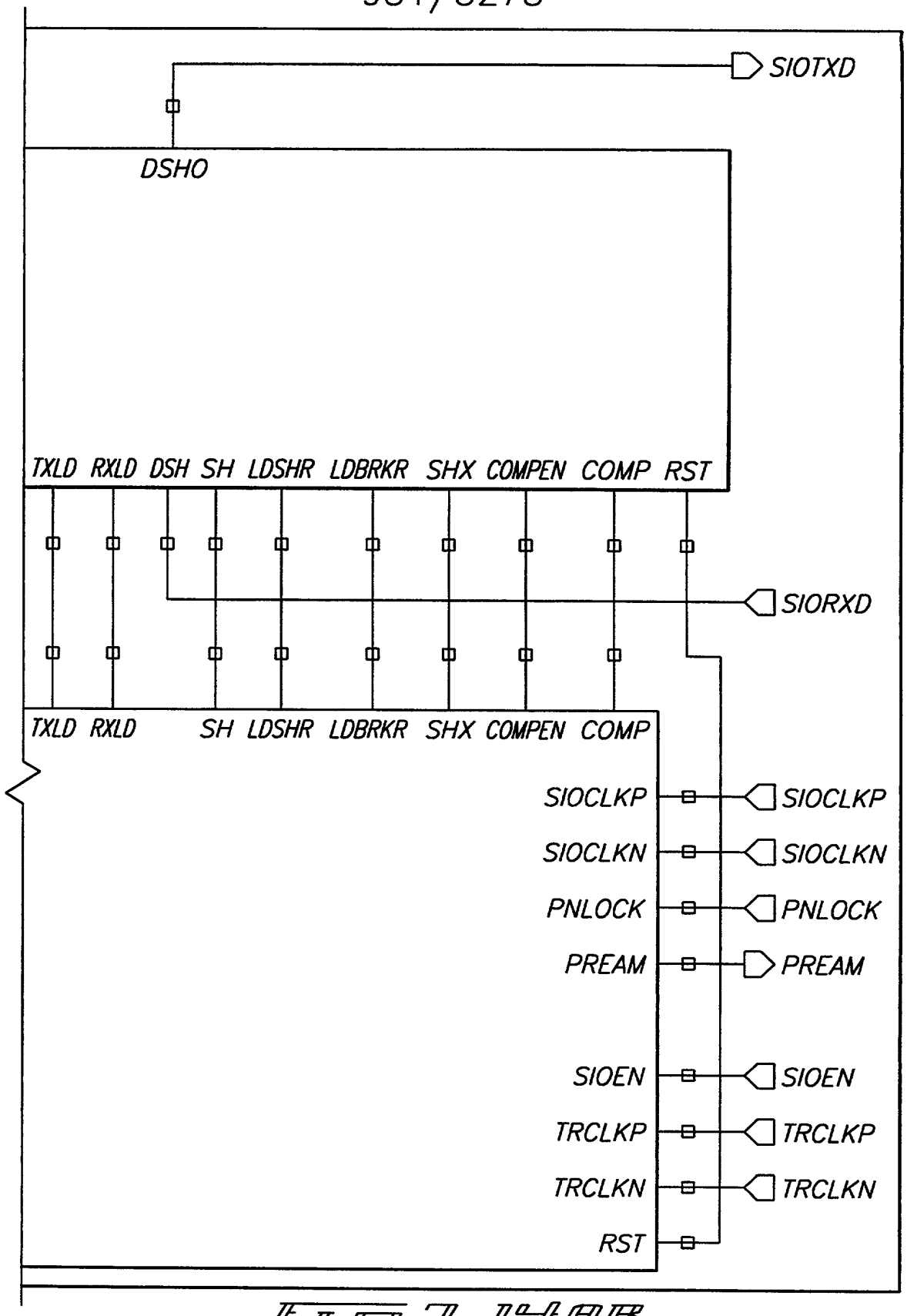

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SIOCLKN
PNLOCK
PREAM
SIOEN
TRCLKP
TRCLKN
RST
SIOCLKP
SIOCLKN
PNLOCK
PREAM
SIOEN
TRCLKP
TRCLKN

Fig. 2.14

7.1401AA	7.1401AB	7.1401AC	7.1401AD	7.1401AE	7.1401AF
7.1401BA	7.1401BB	7.1401BC	7.1401BD	7.1401BE	7.1401BF
7.1401CA	7.1401CB	7.1401CC	7.1401CD	7.1401CE	7.1401CF
7.1401DA	7.1401DB	7.1401DC	7.1401DD	7.1401DE	7.1401DF
7.1401EA	7.1401EB	7.1401EC	7.1401ED	7.1401EE	7.1401EF
7.1401FA	7.1401FB	7.1401FC	7.1401FD	7.1401FE	7.1401FF
7.1401GA	7.1401GB	7.1401GC	7.1401GD	7.1401GE	7.1401GF

Fig. 7.1401

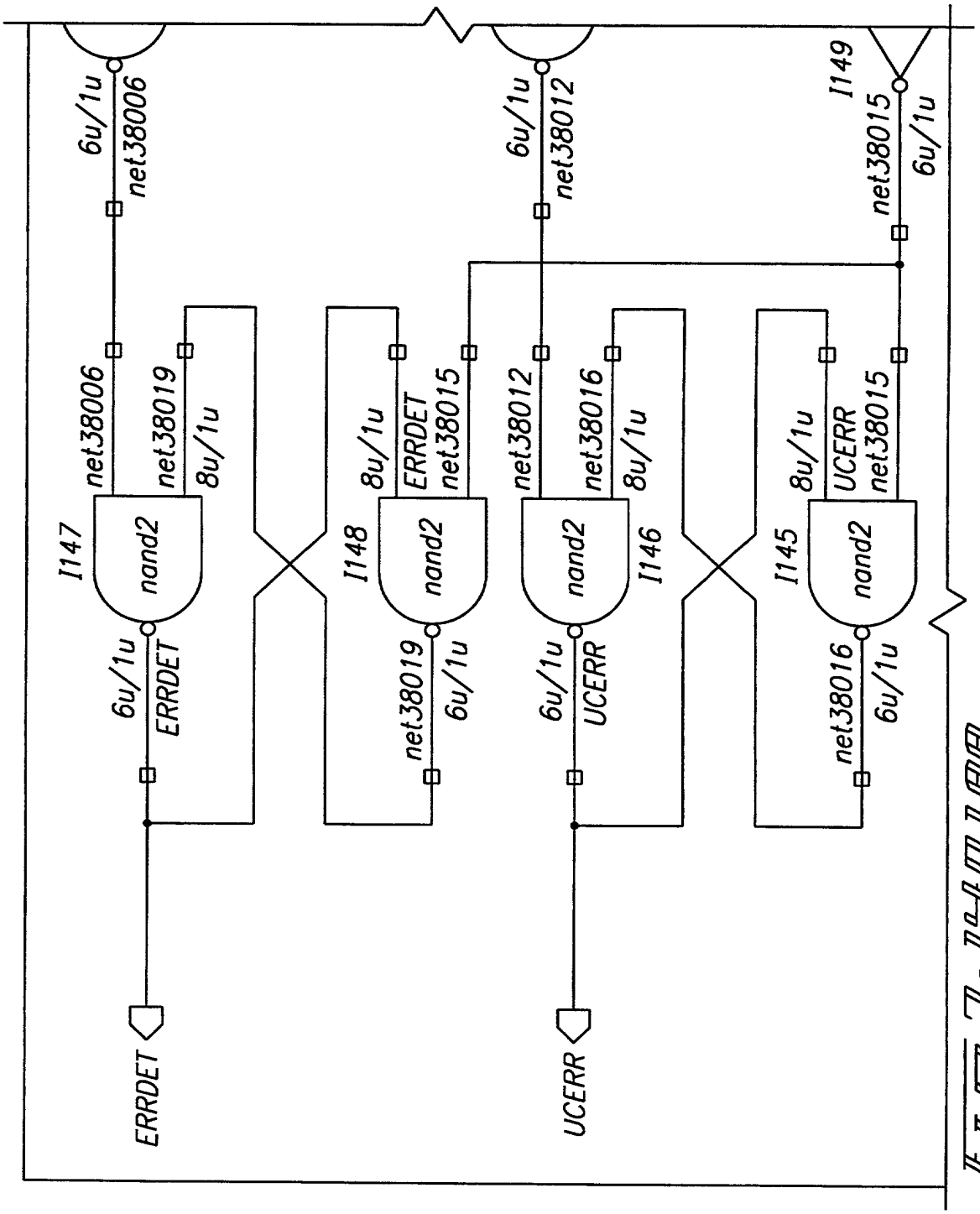
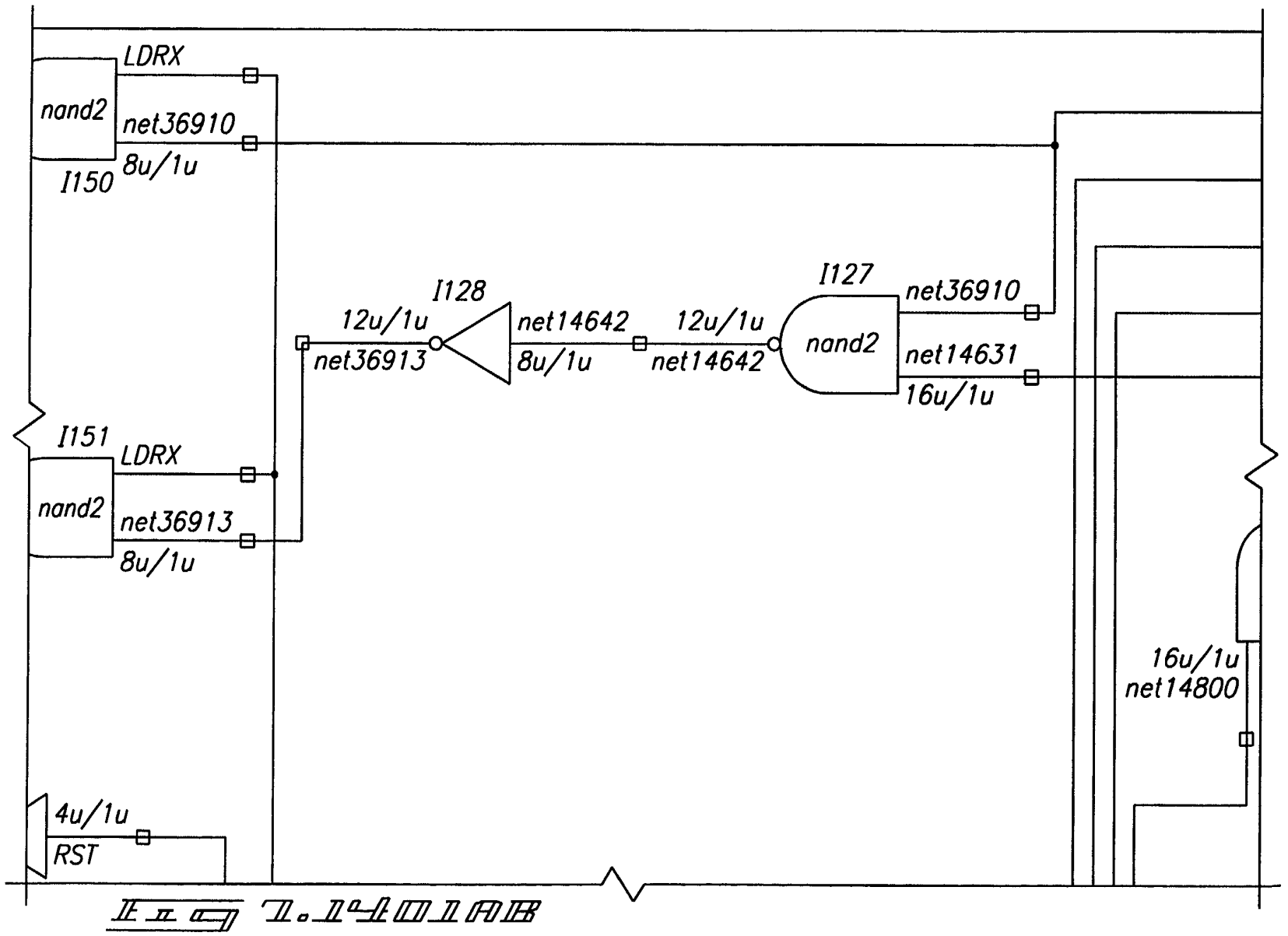
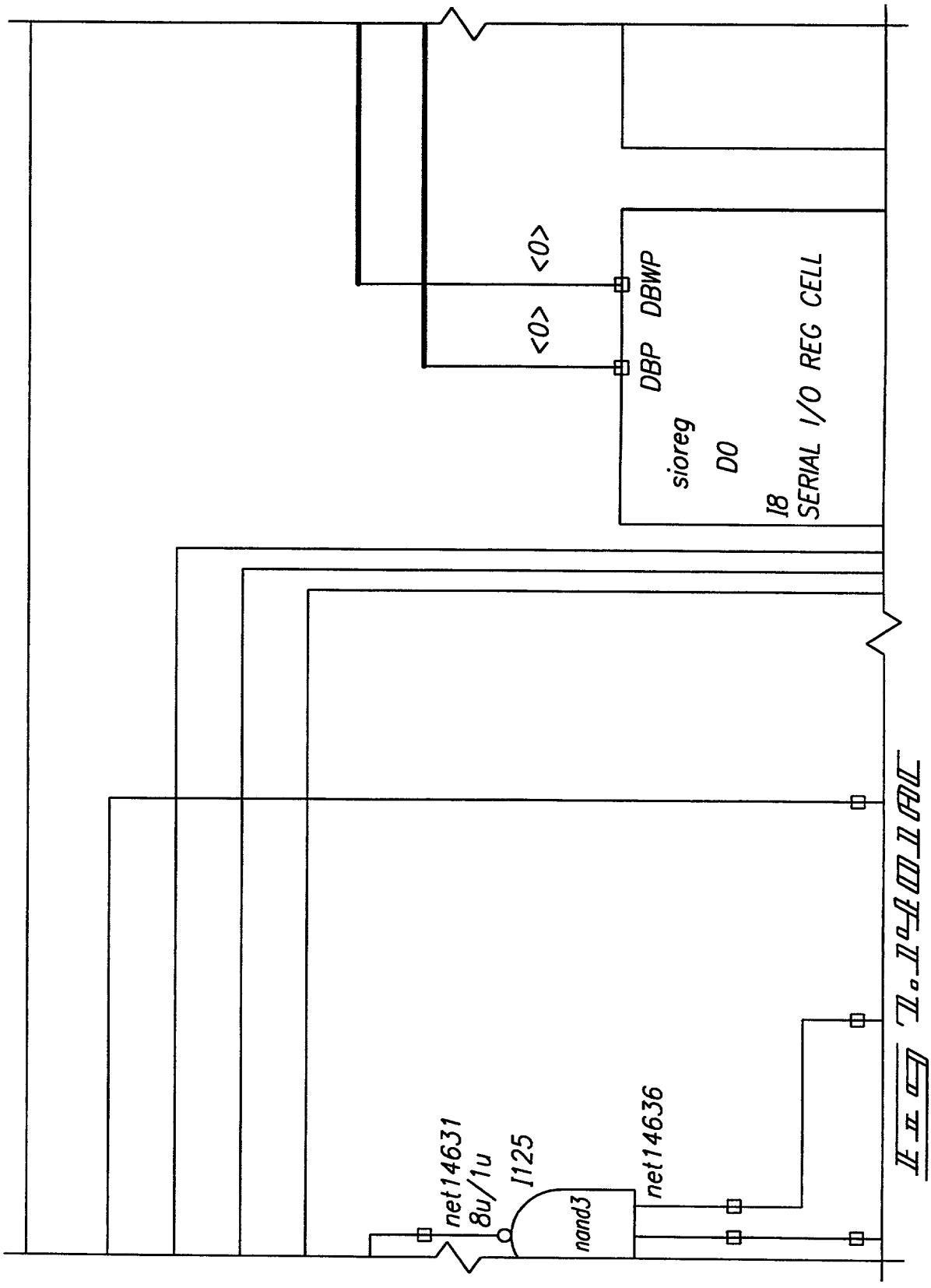

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net38019
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net38016
8u/1u
6u/1u
UCERR
UCERR
I145
nand2
8u/1u
UCERR
net38015
net38016
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I149
net38015
6u/1u

FIG 1.14A

EP0722860


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I150
I128
12u/1u
net14642
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net36910
net14631
16u/1u
I151
LDRX
nand2
net36913
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SERIAL I/O REG CELL
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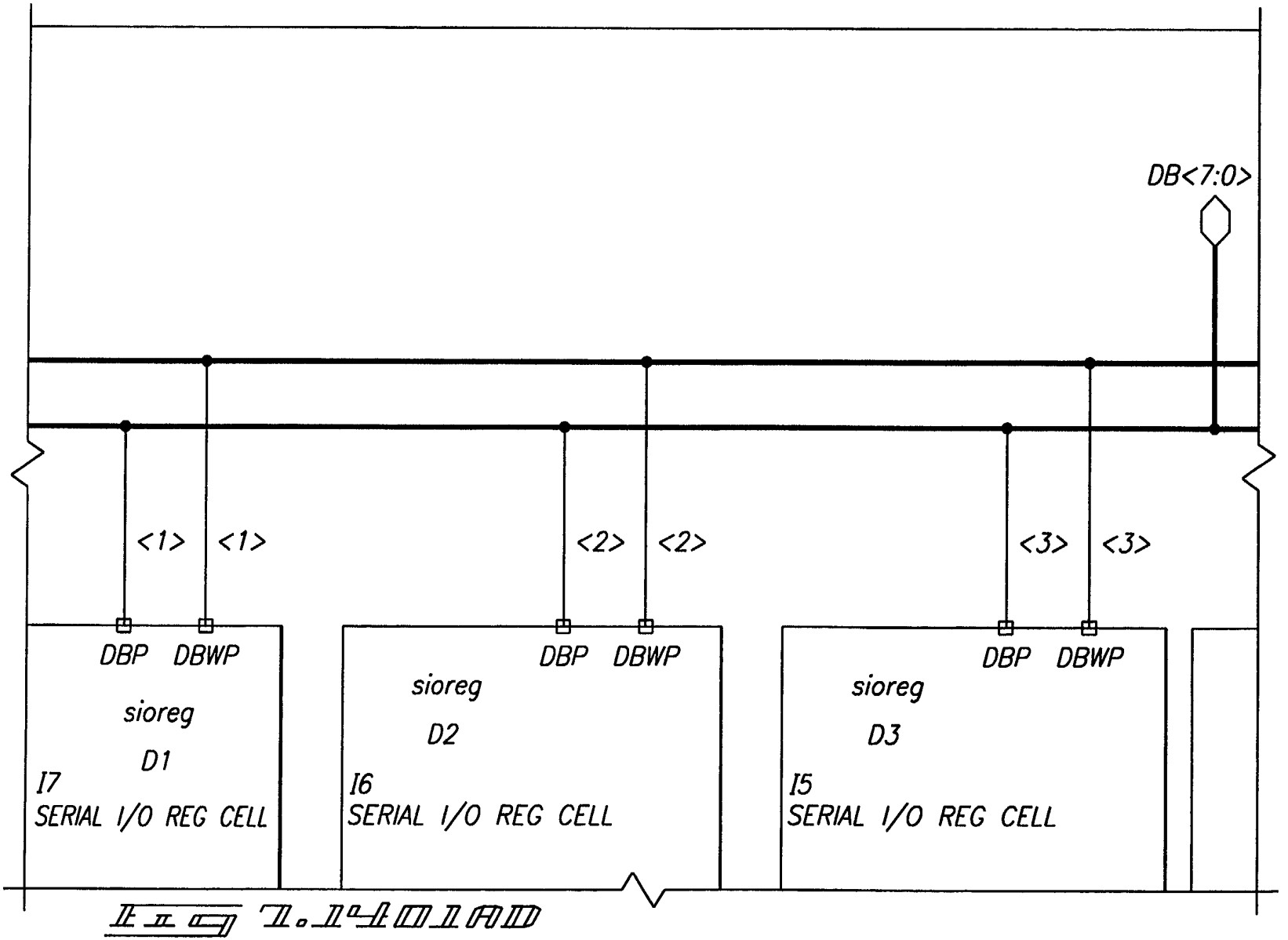


Fig 2.14a

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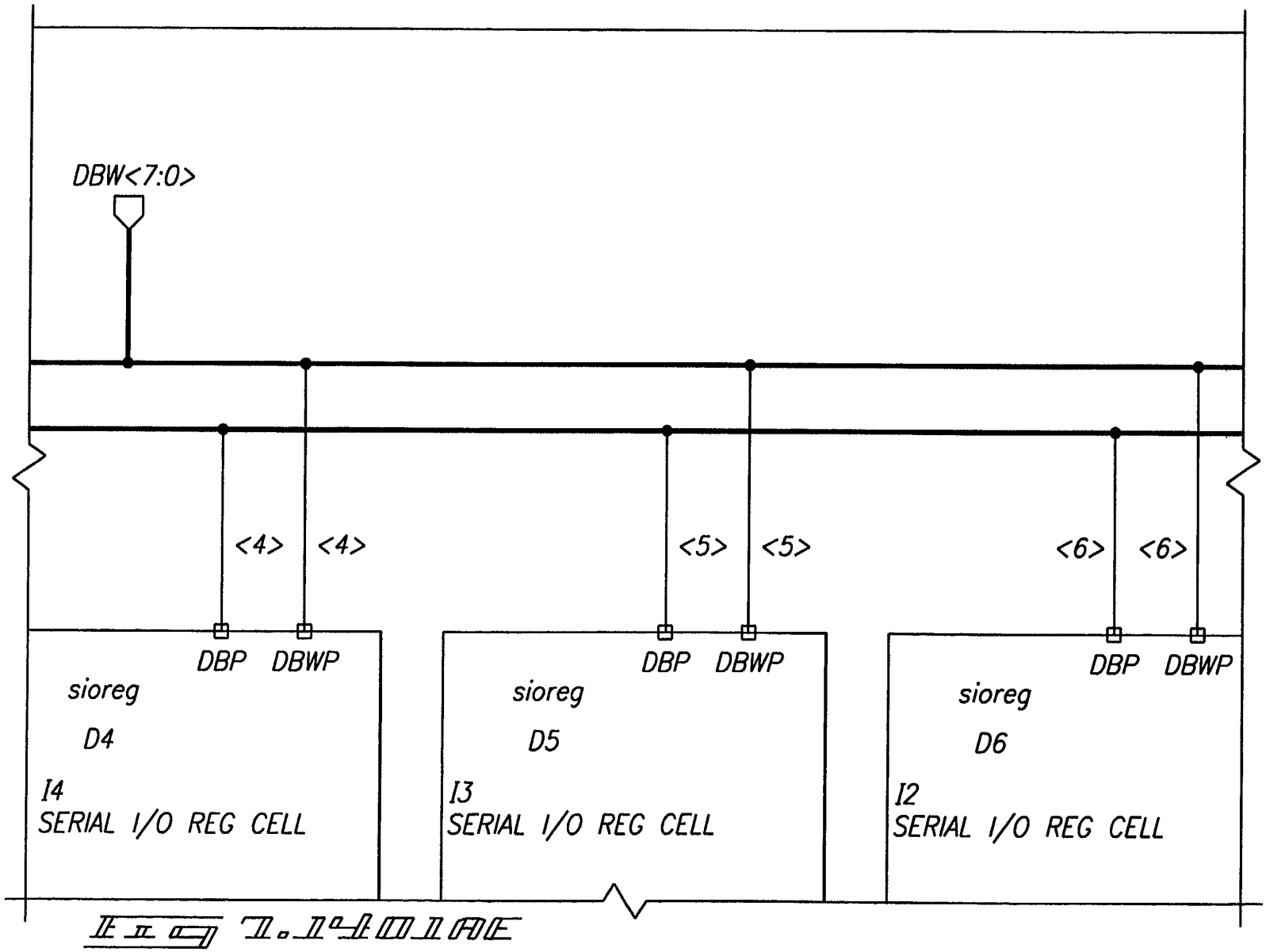

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I3
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sioreg
D6
I2
SERIAL I/O REG CELL

Fig 2.14a

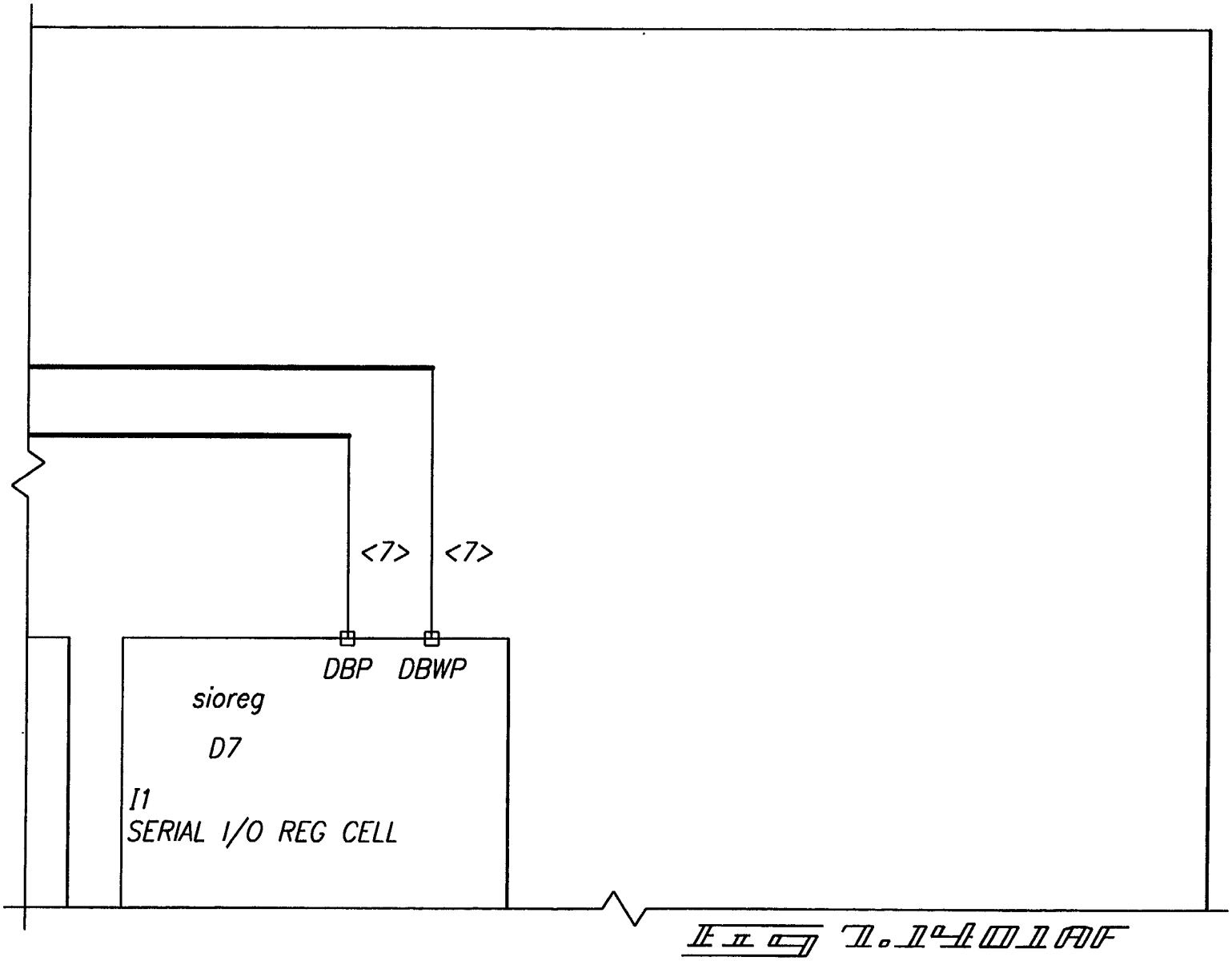
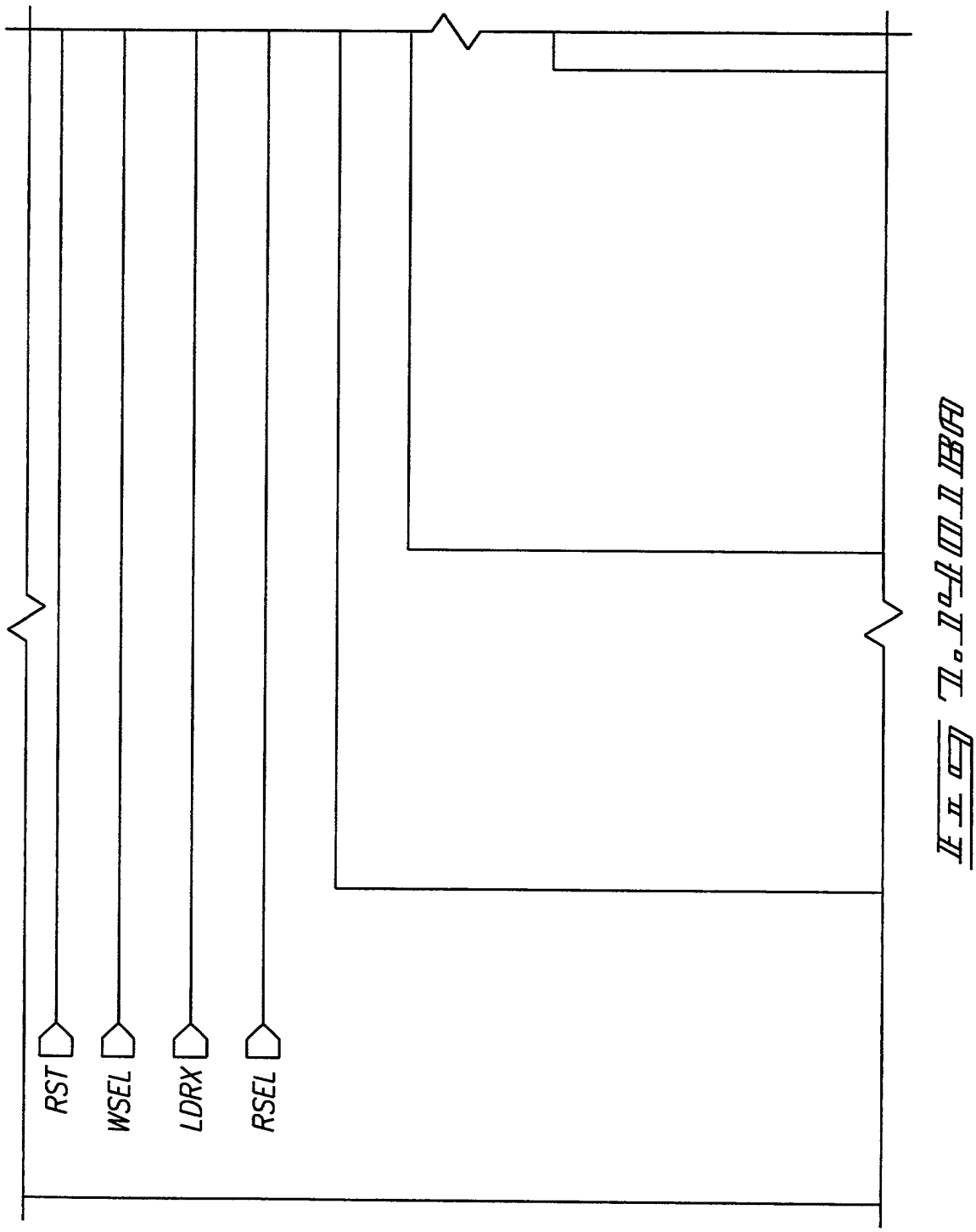
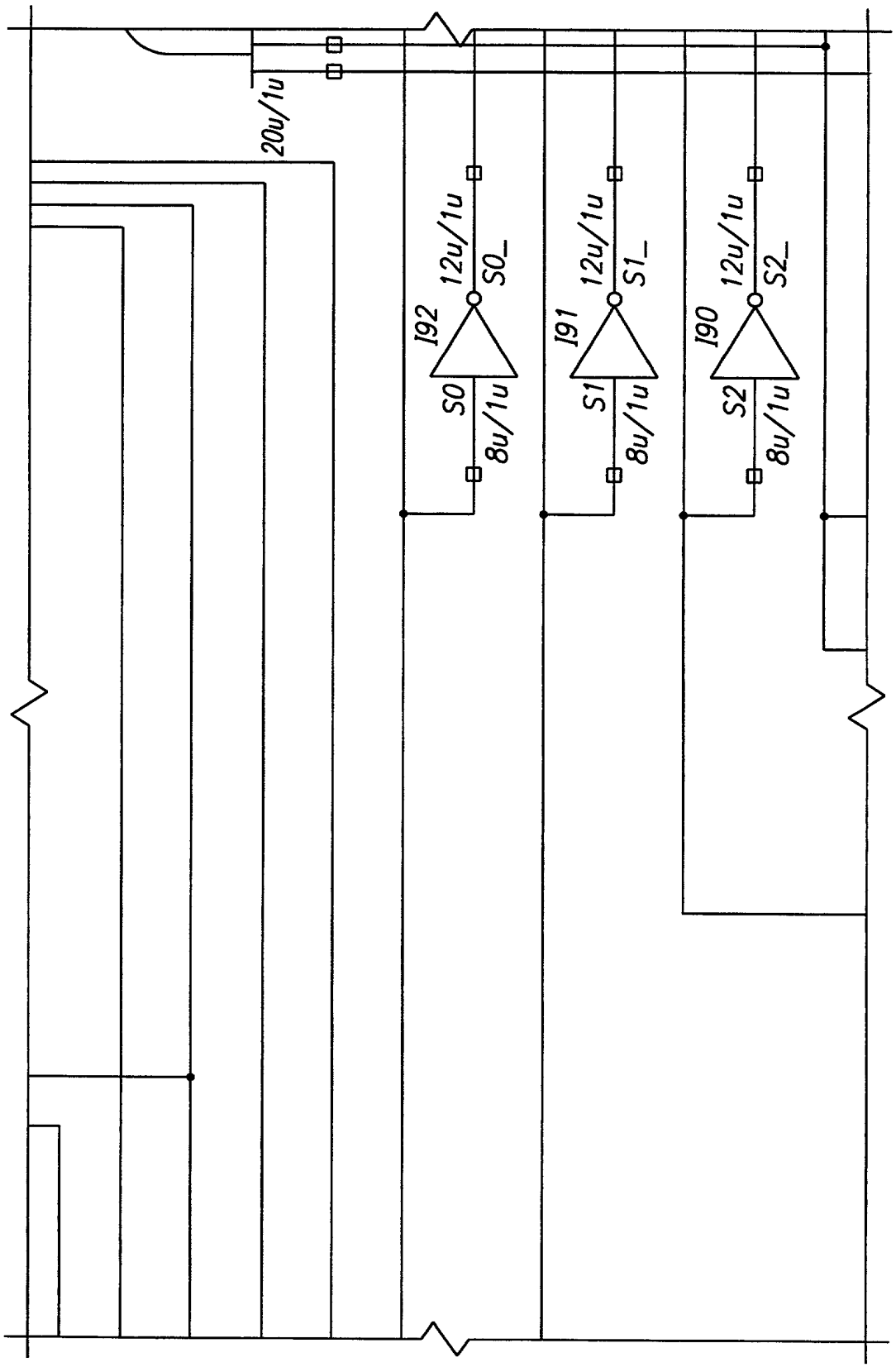


Fig 7.14a

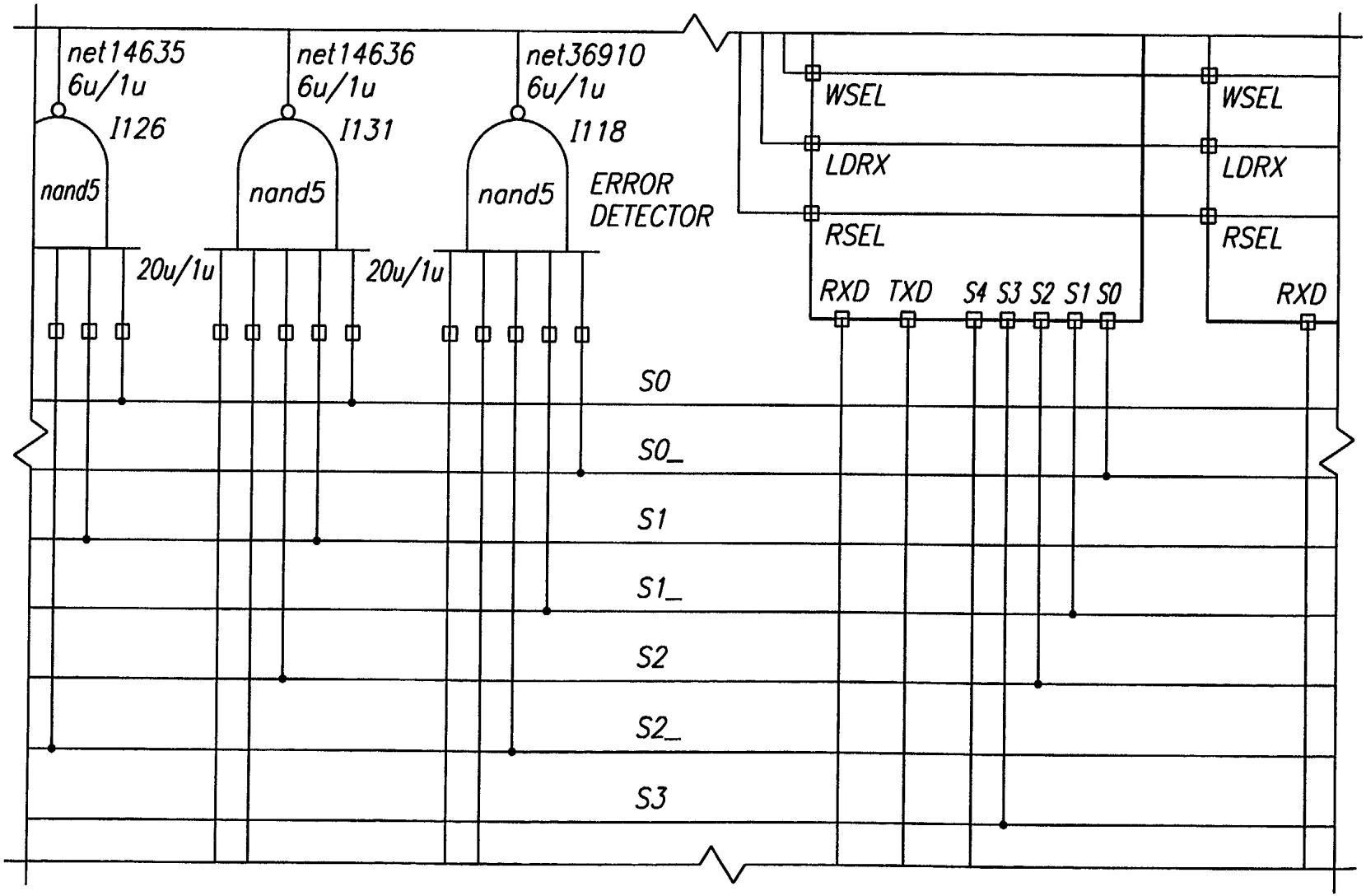


Patent Publication



Фиг. 14

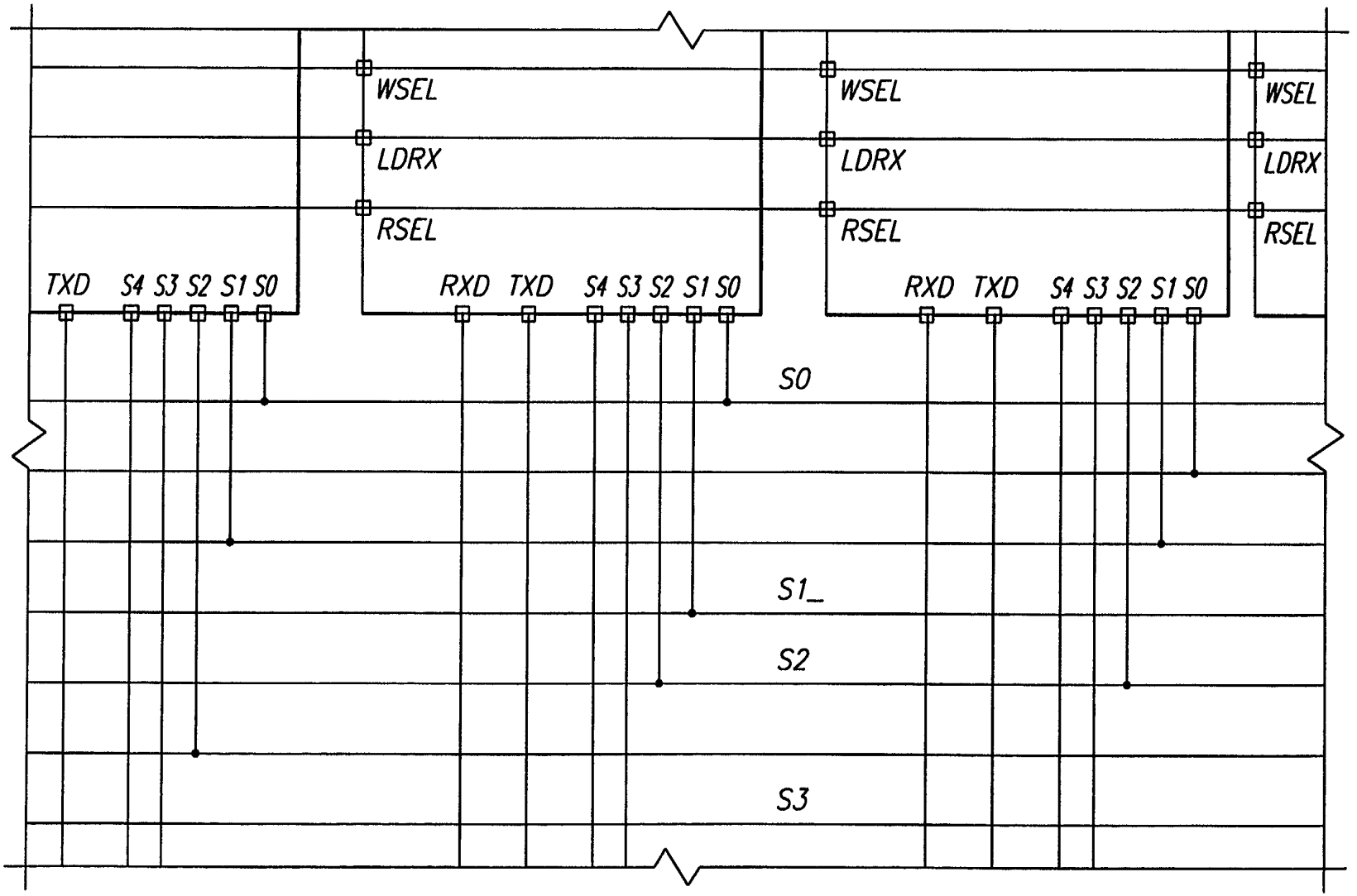
ТОЛКАЧ - 2002



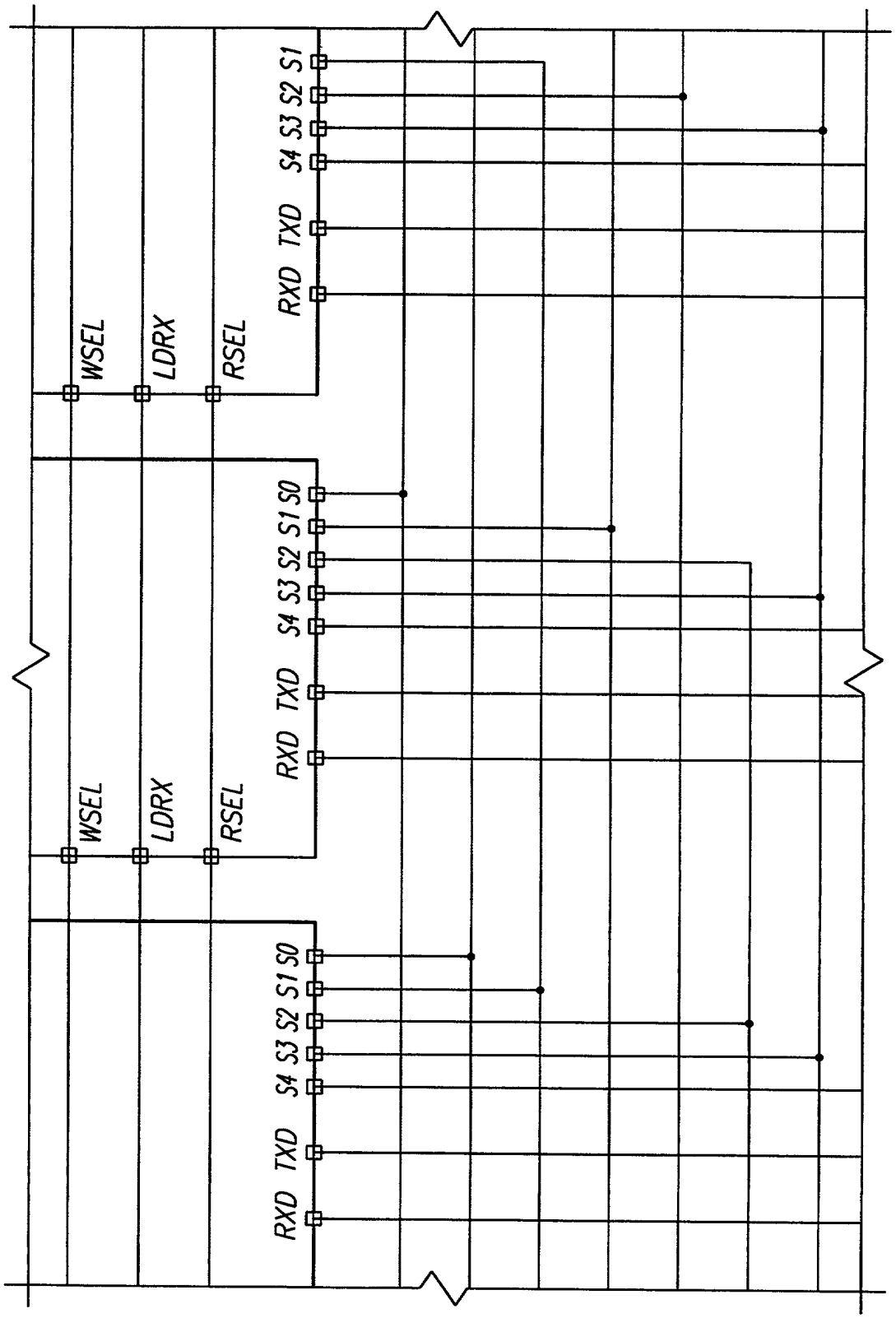
941/3273

Fig 2.1a

ID1190 E902286

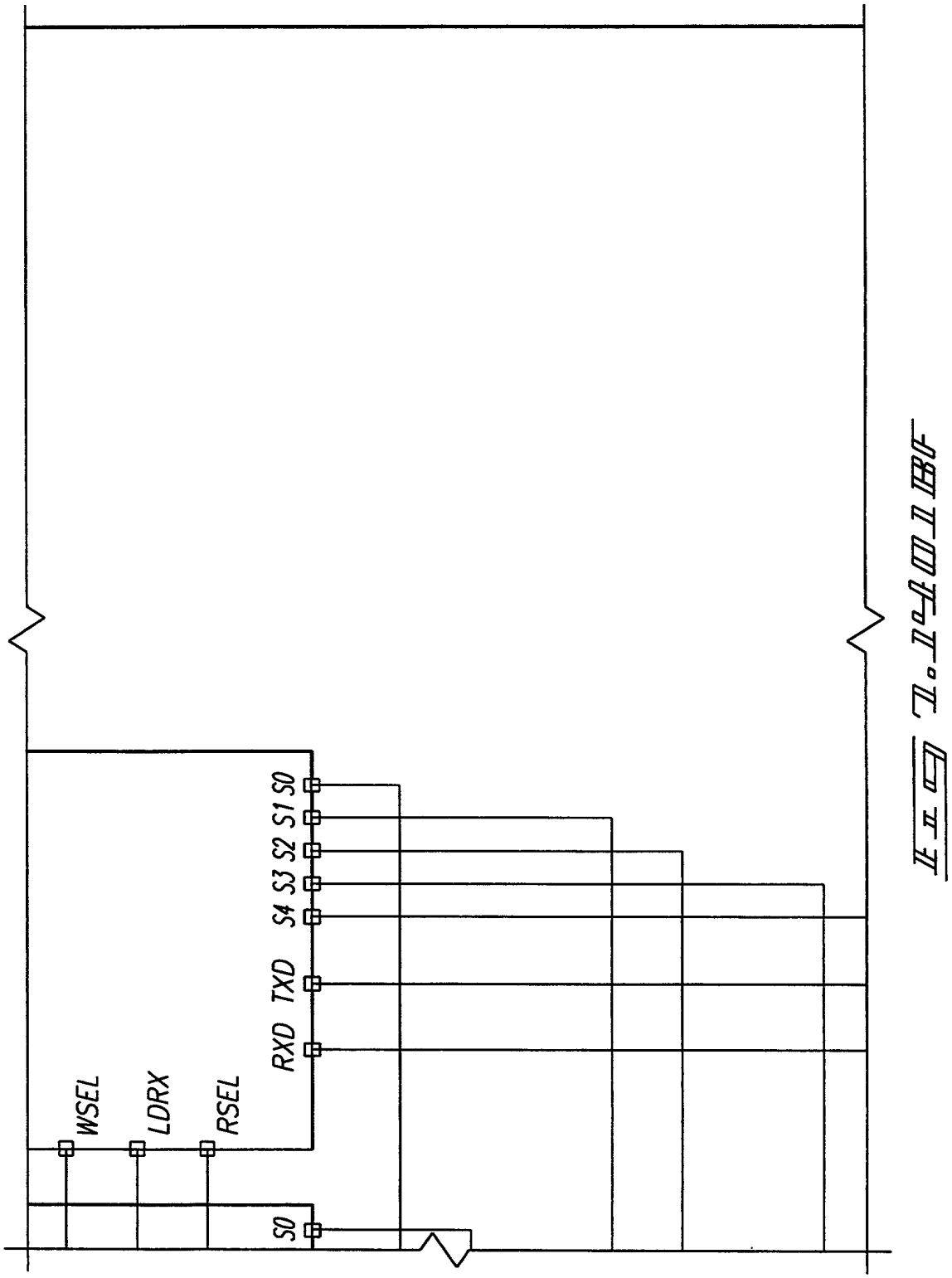


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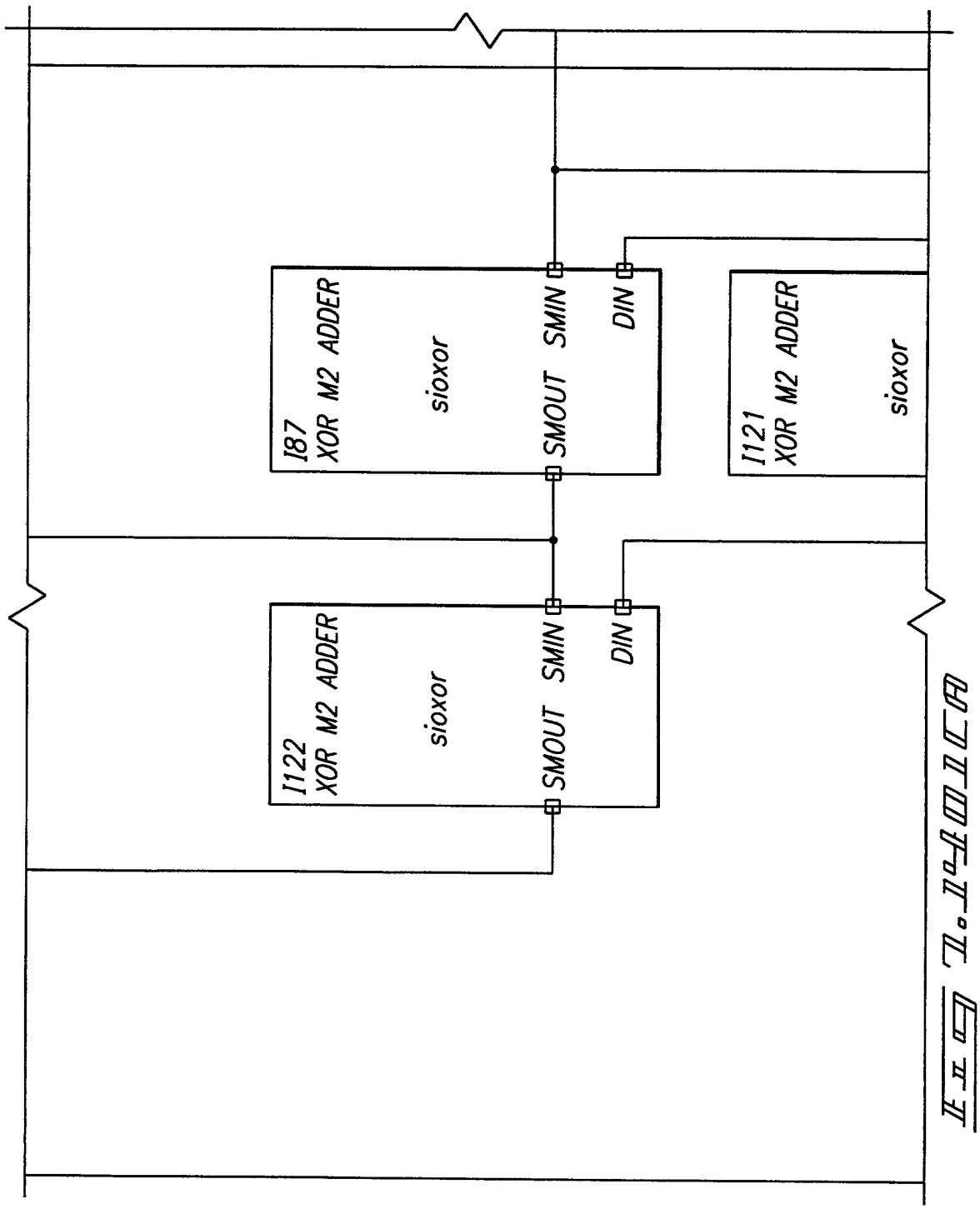
Фиг. 14

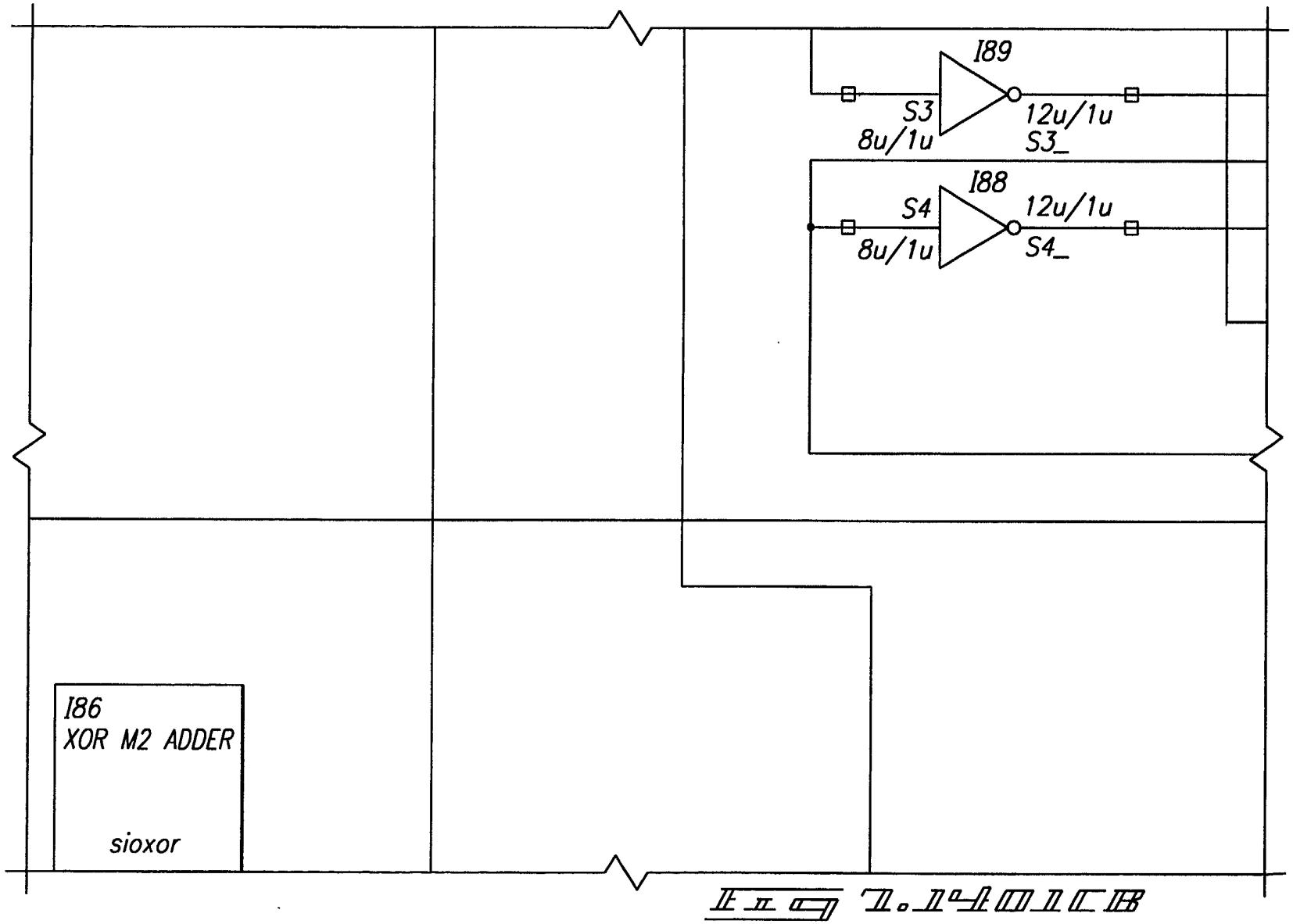
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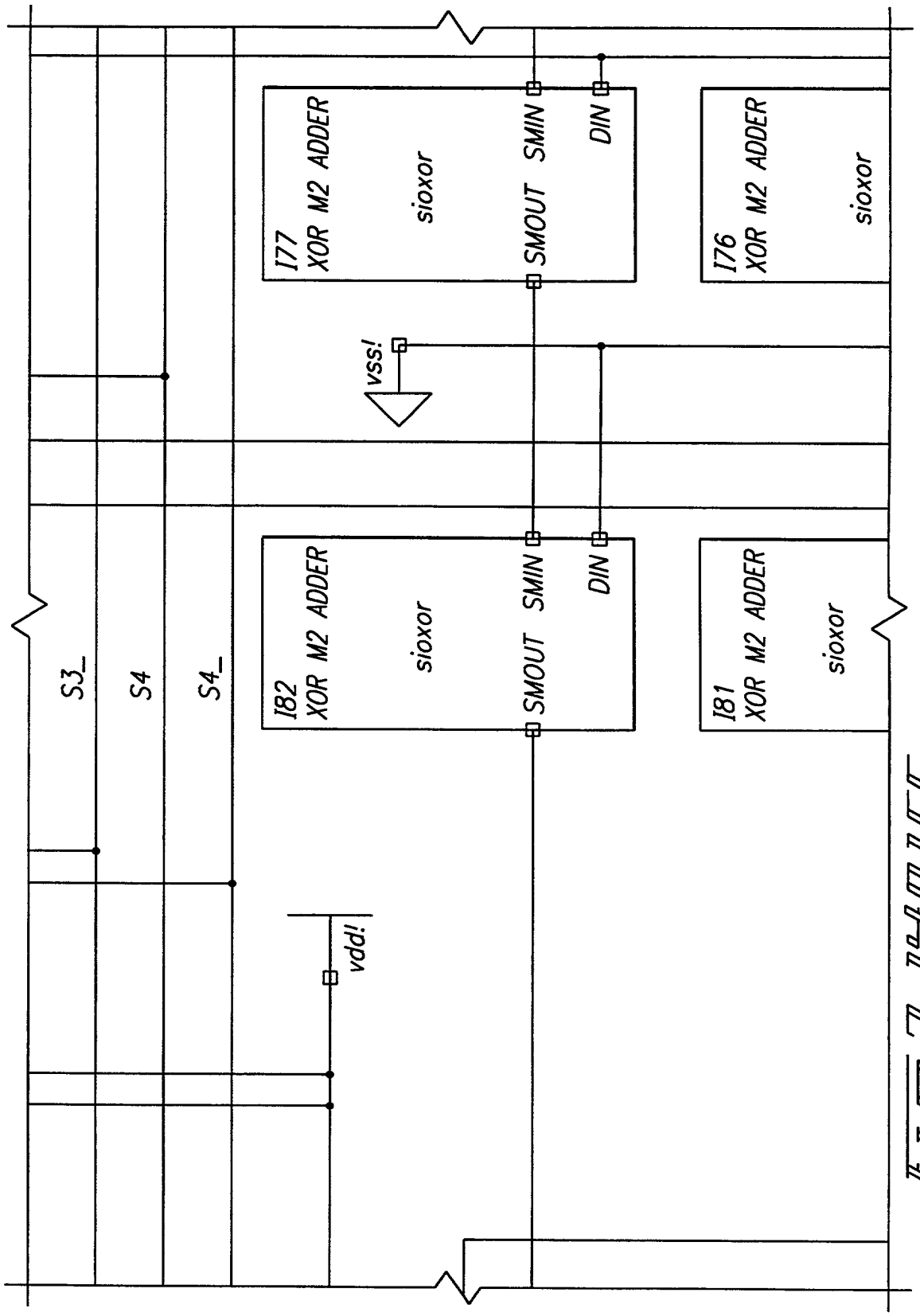
Patent Application





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Fig 7.14 (IDT79D)



Фиг. 6

Patent application

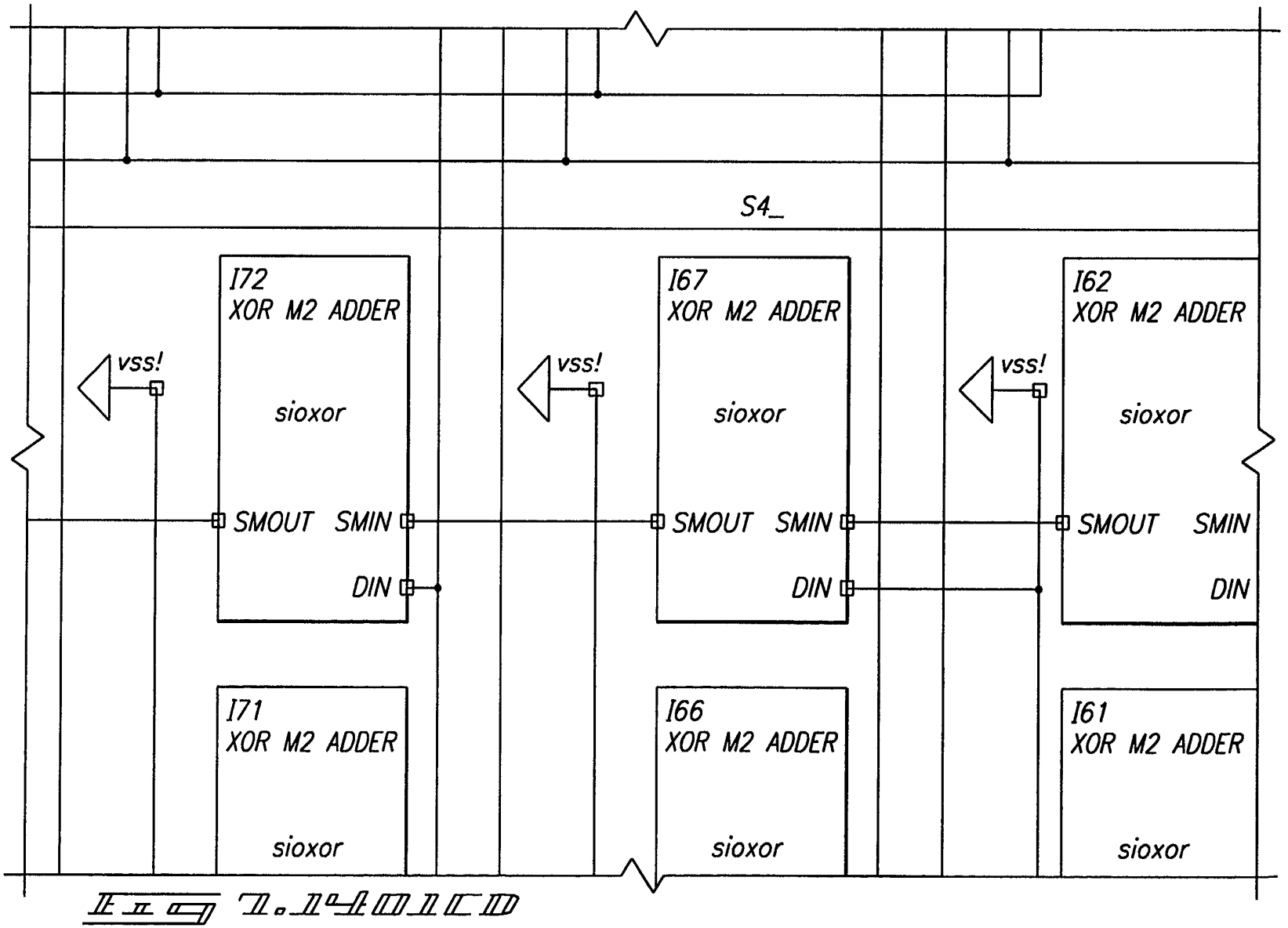
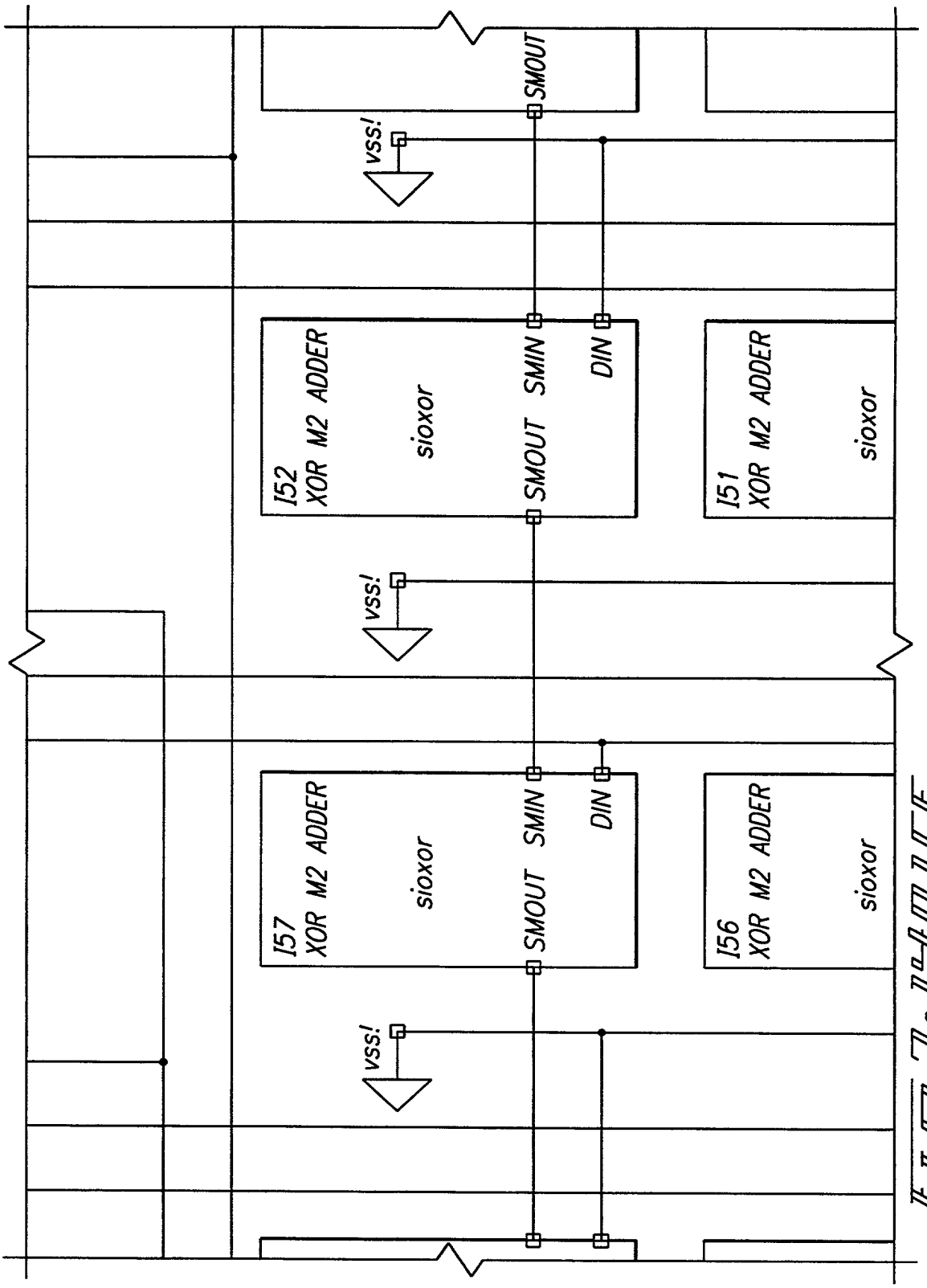

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SMIN
DIN
I62
XOR M2 ADDER
sioxor
vss!
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I66
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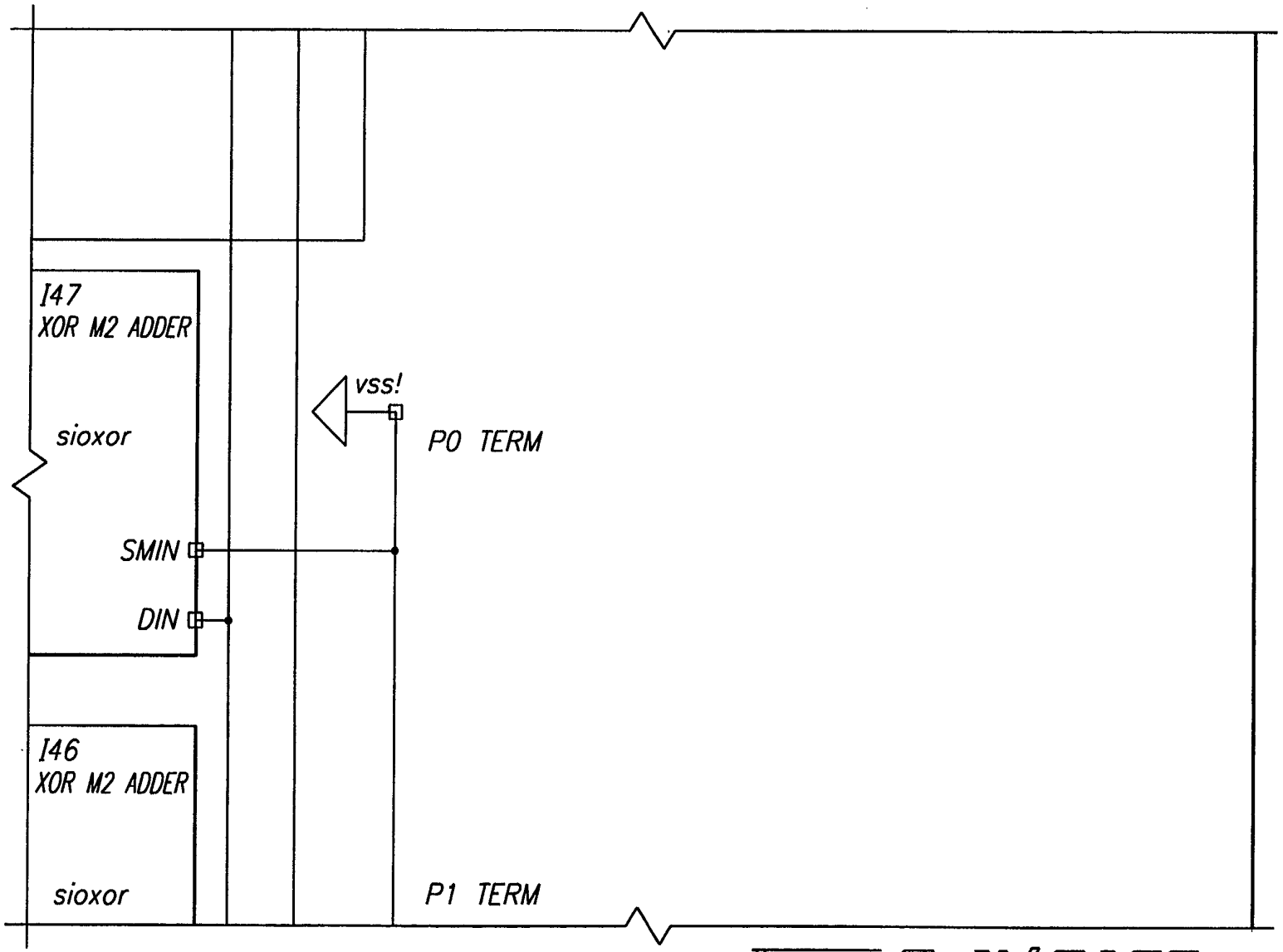
Fig 1.14a



Фиг. 5

ТОЛКАЧЕВ Е.Ю. 2002

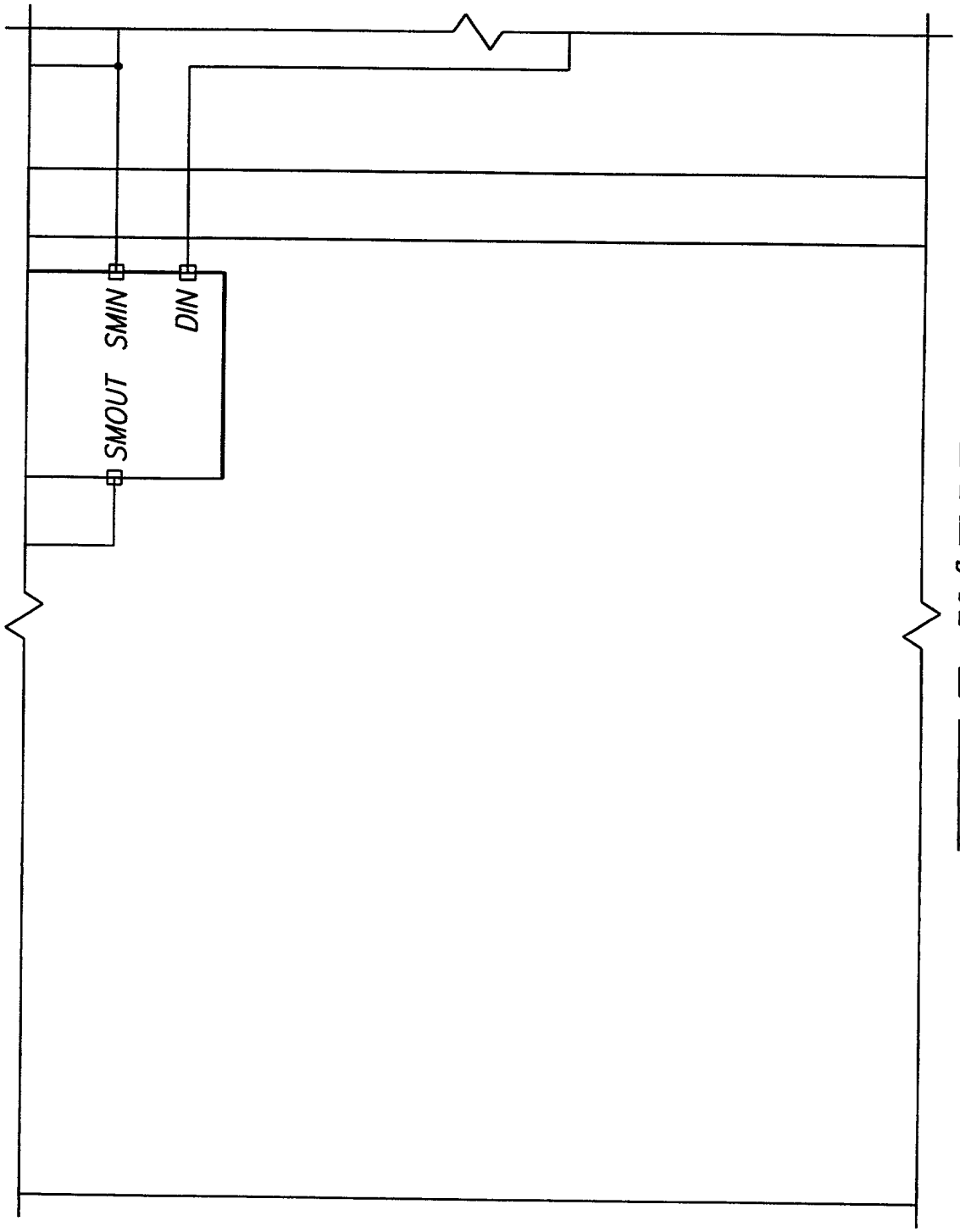
EP 0 390 286 A2



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Fig 2.14a

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Фиг. 1

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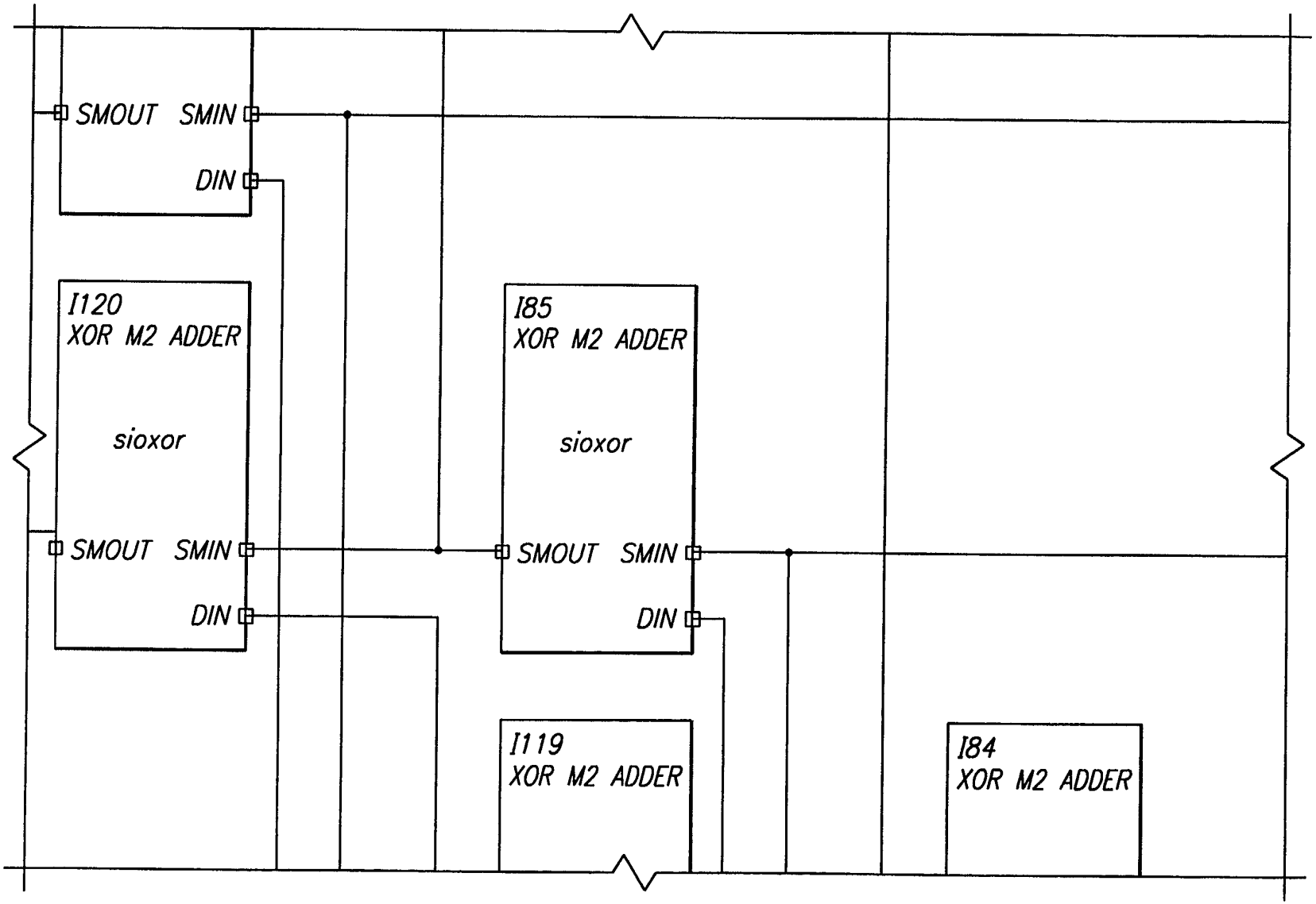

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952/3273

Fig 7.1-4010B

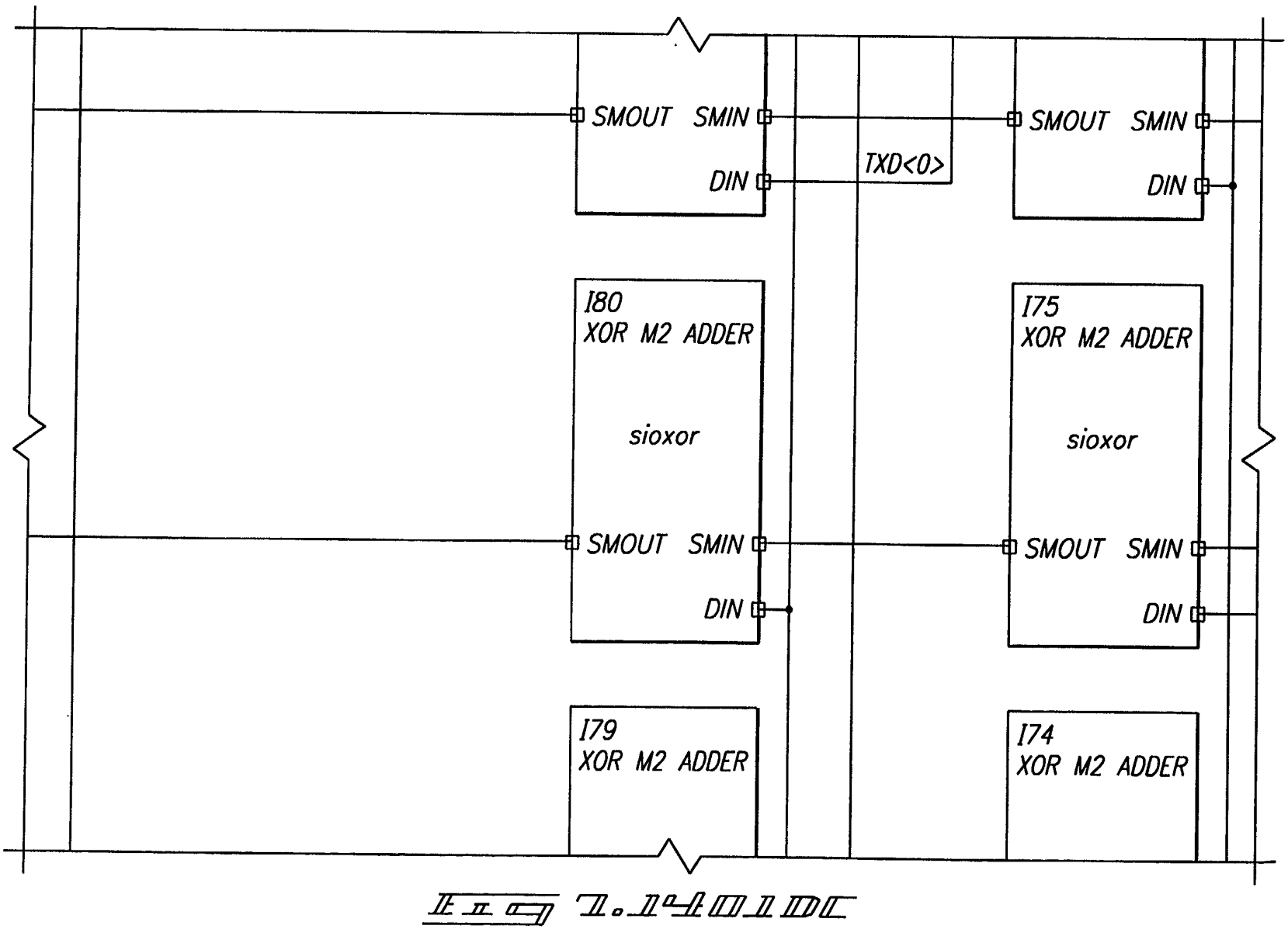

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XOR M2 ADDER
I74
XOR M2 ADDER
953/3273

Fig 7.14a

EP 0 502 786 A1

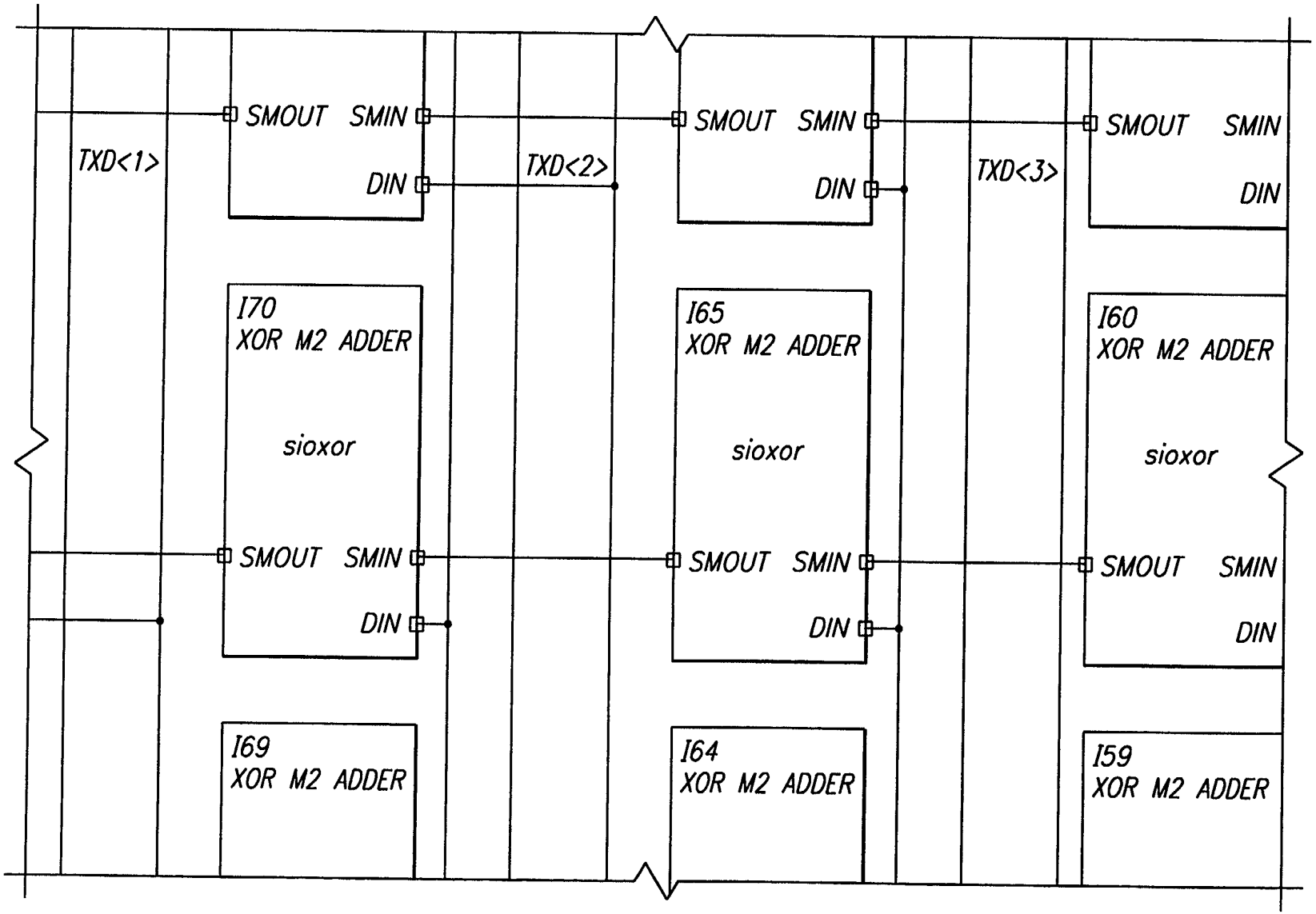
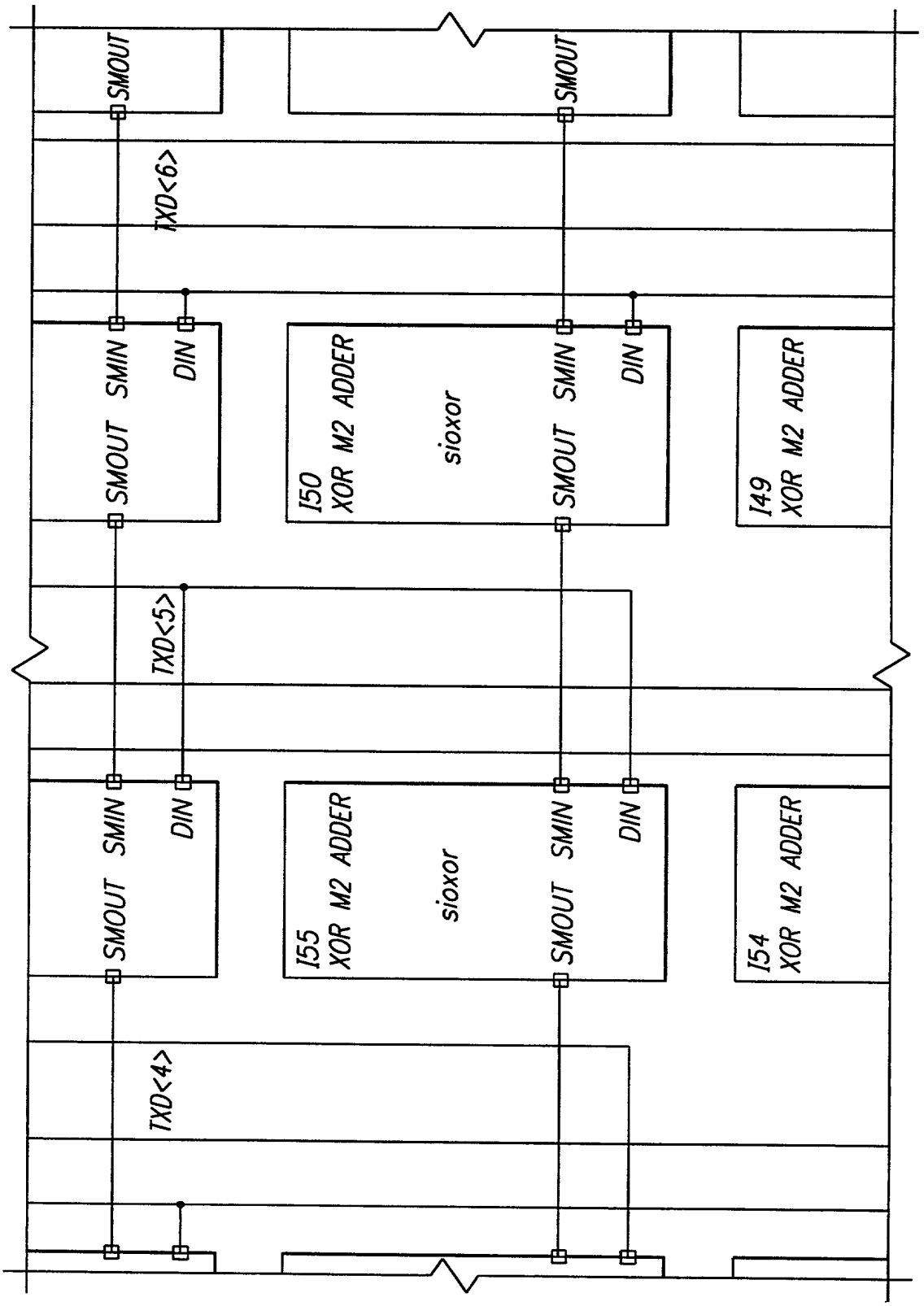


Fig 7.1d/1b

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Фиг. 14

EP 1 176 520 A2

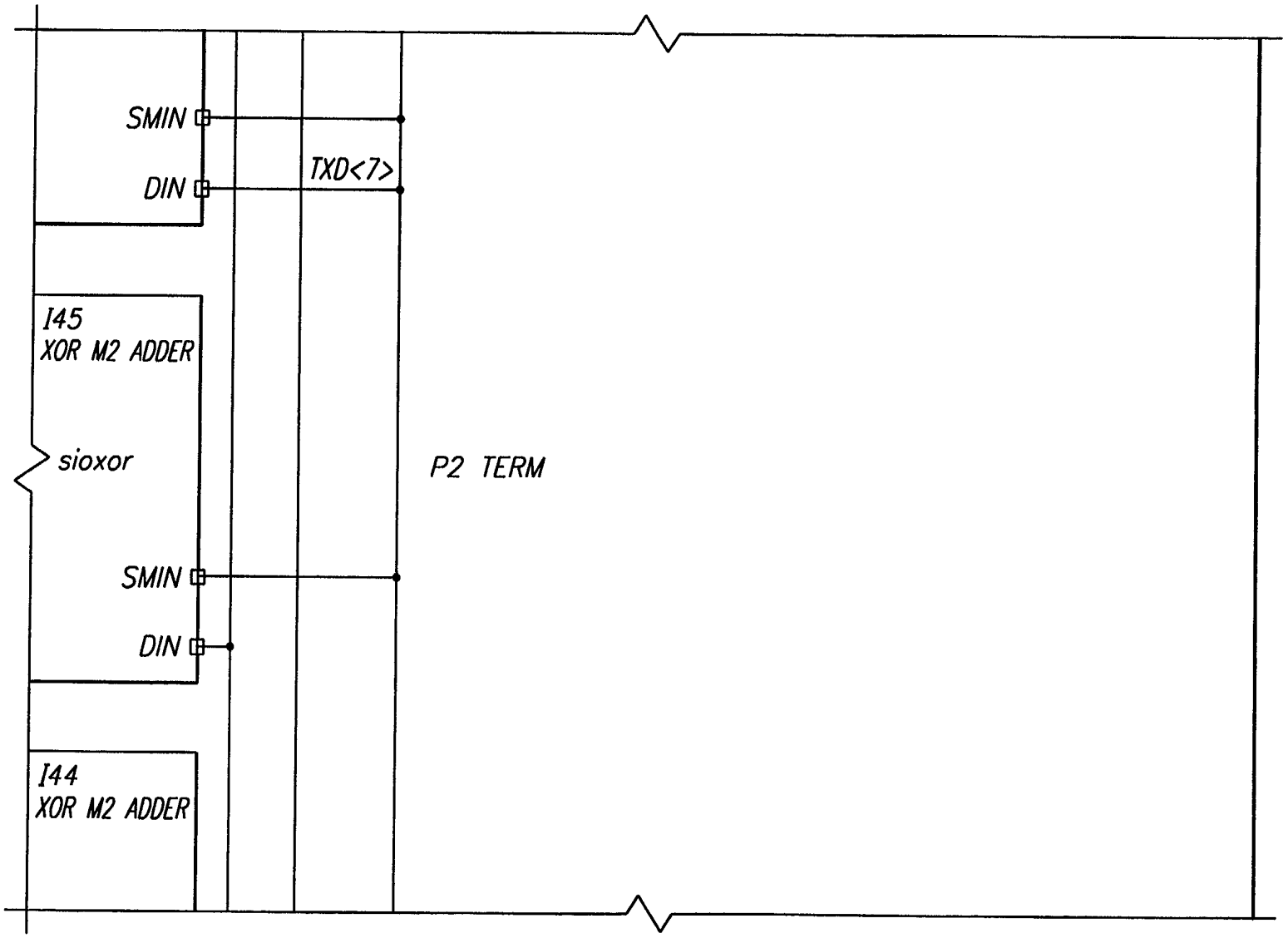
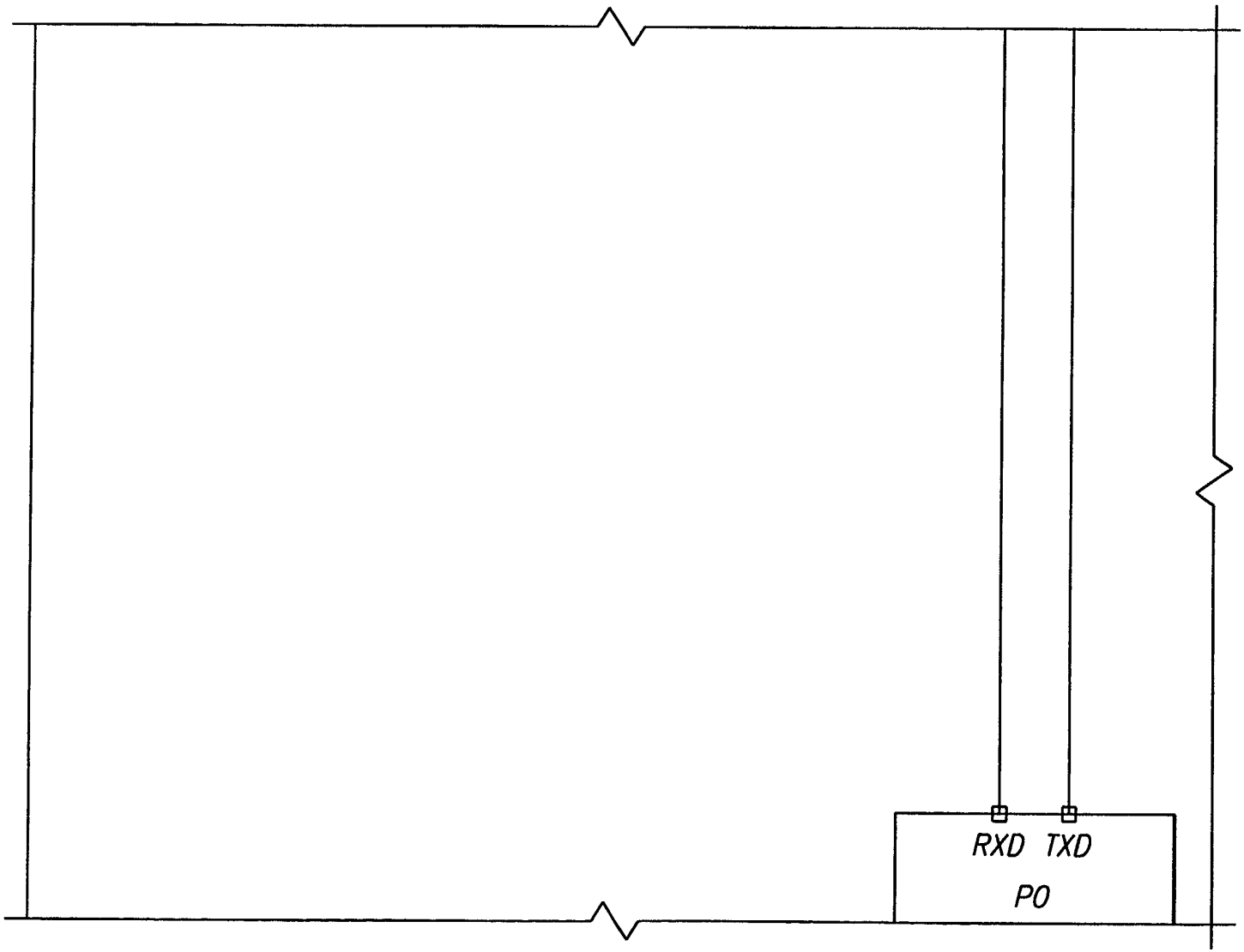


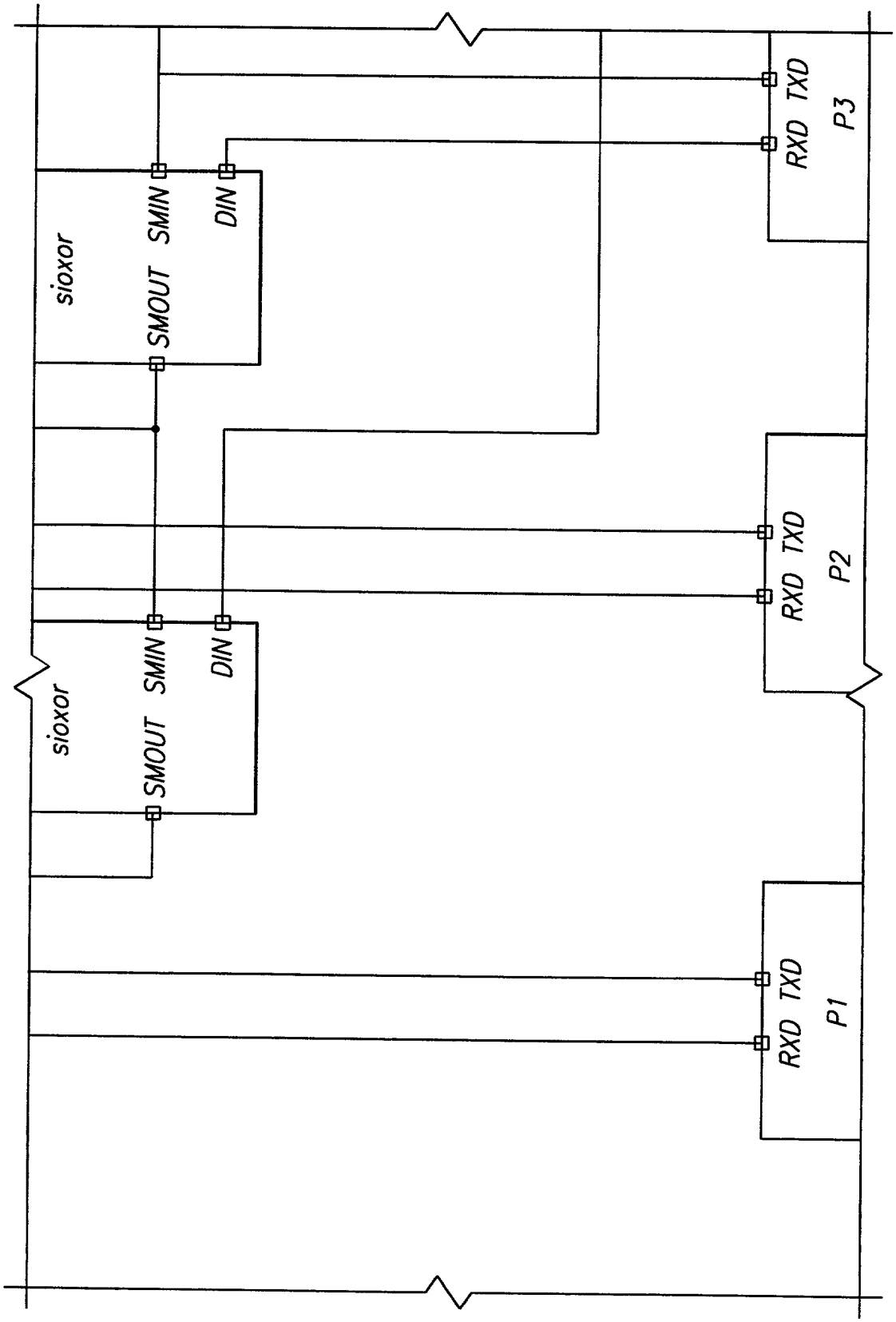
Fig 7.14001DF

ЮТТЭП "Е90232860



Ед 7.14011ЕА

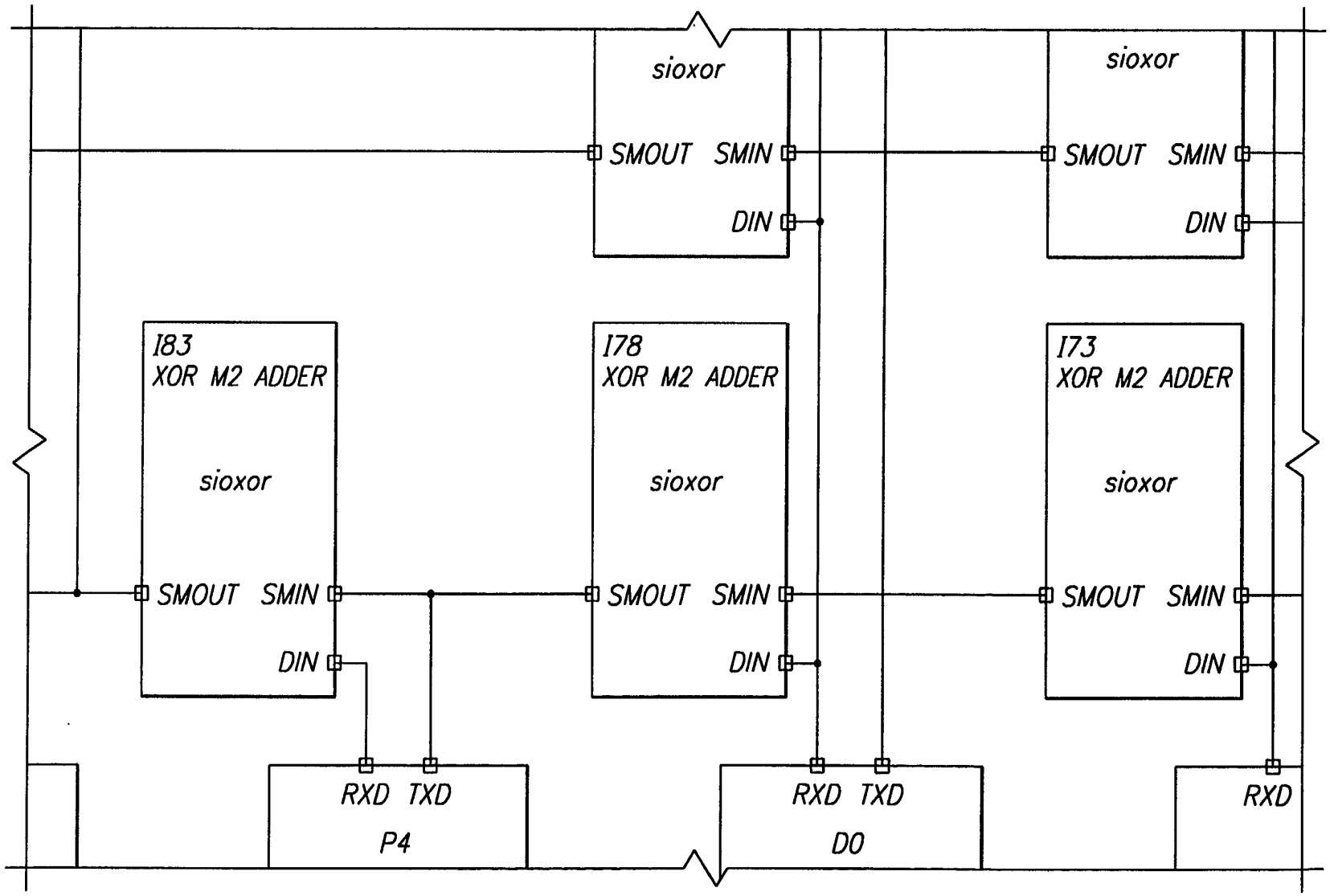
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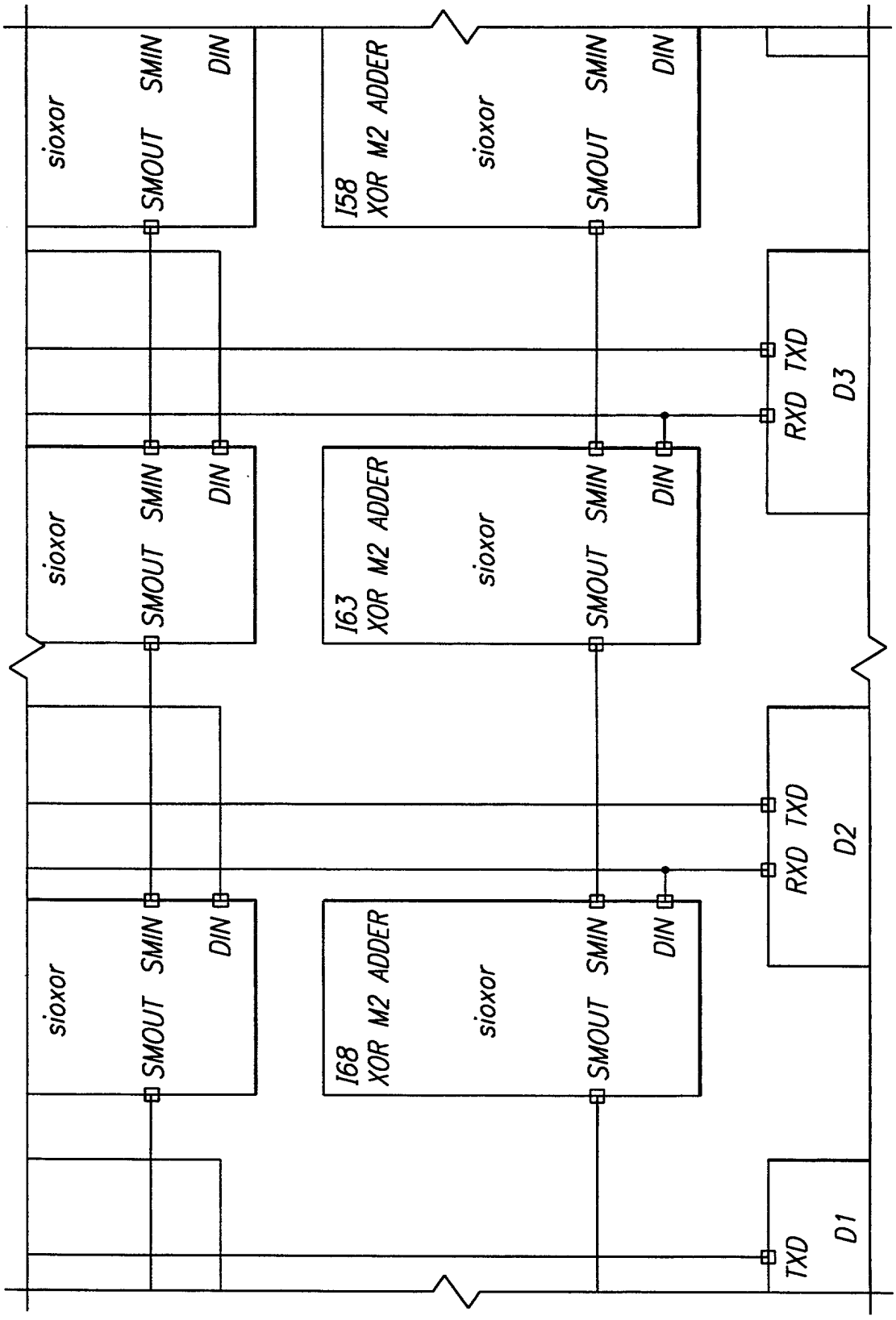
EP 0 772 326 A2

EP 0 232 860



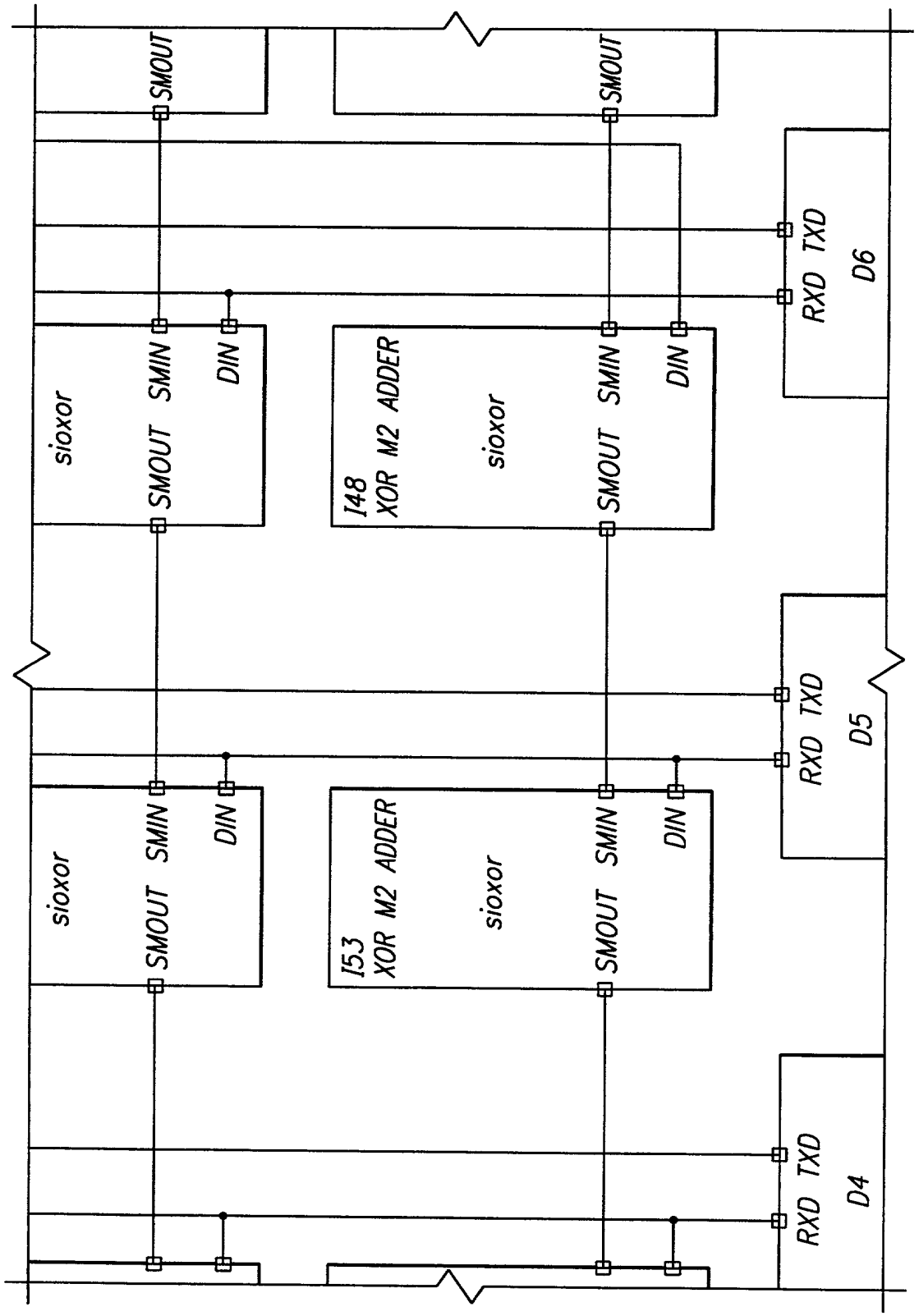
959/3273

Fig 11.14



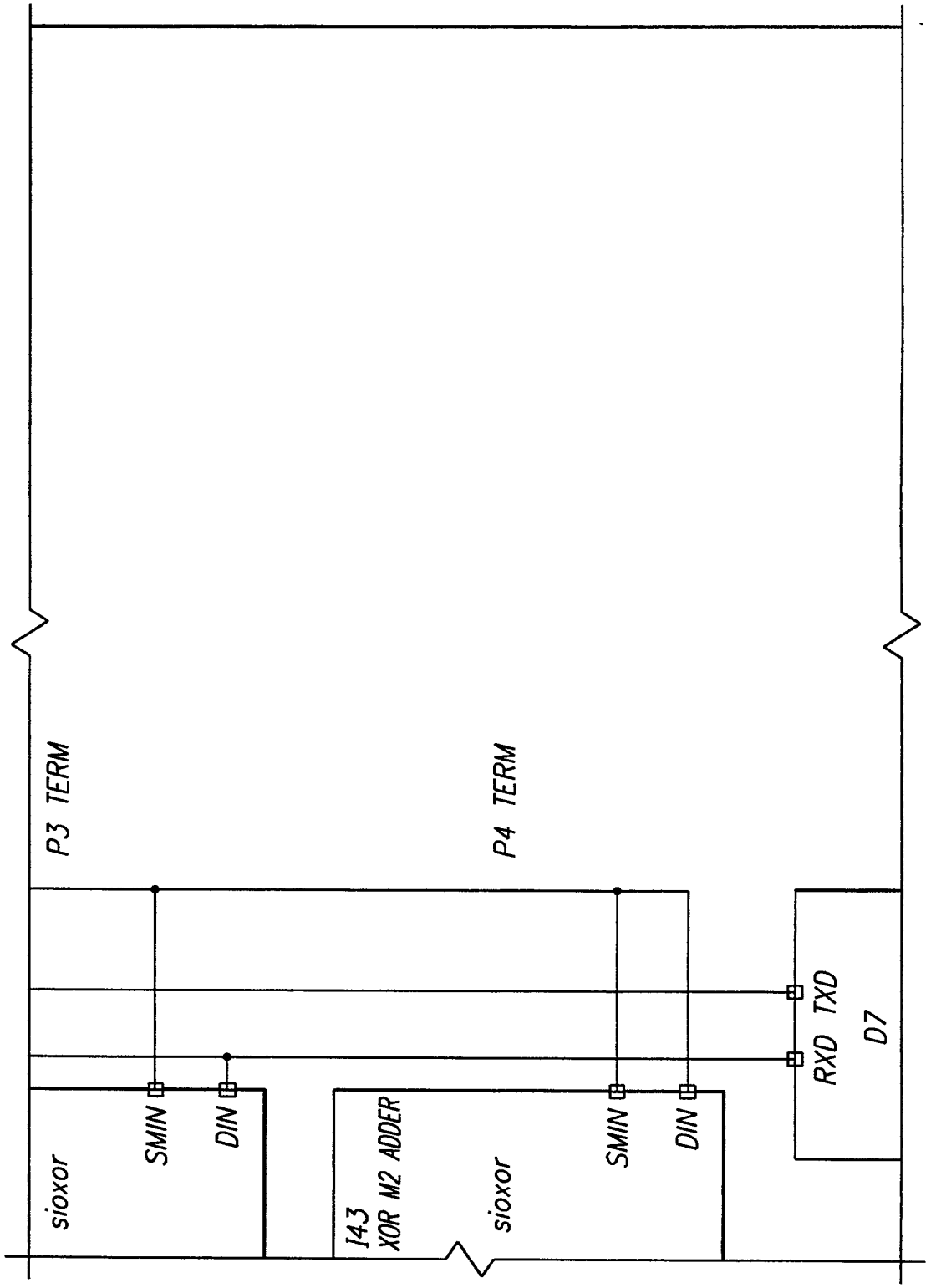
Фиг. 14

Patent application publication


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D5
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DIN
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RXD TXD
D4

Фиг. 11

EP 0 962 846 A2



Фиг. 1

Replacement Sheet

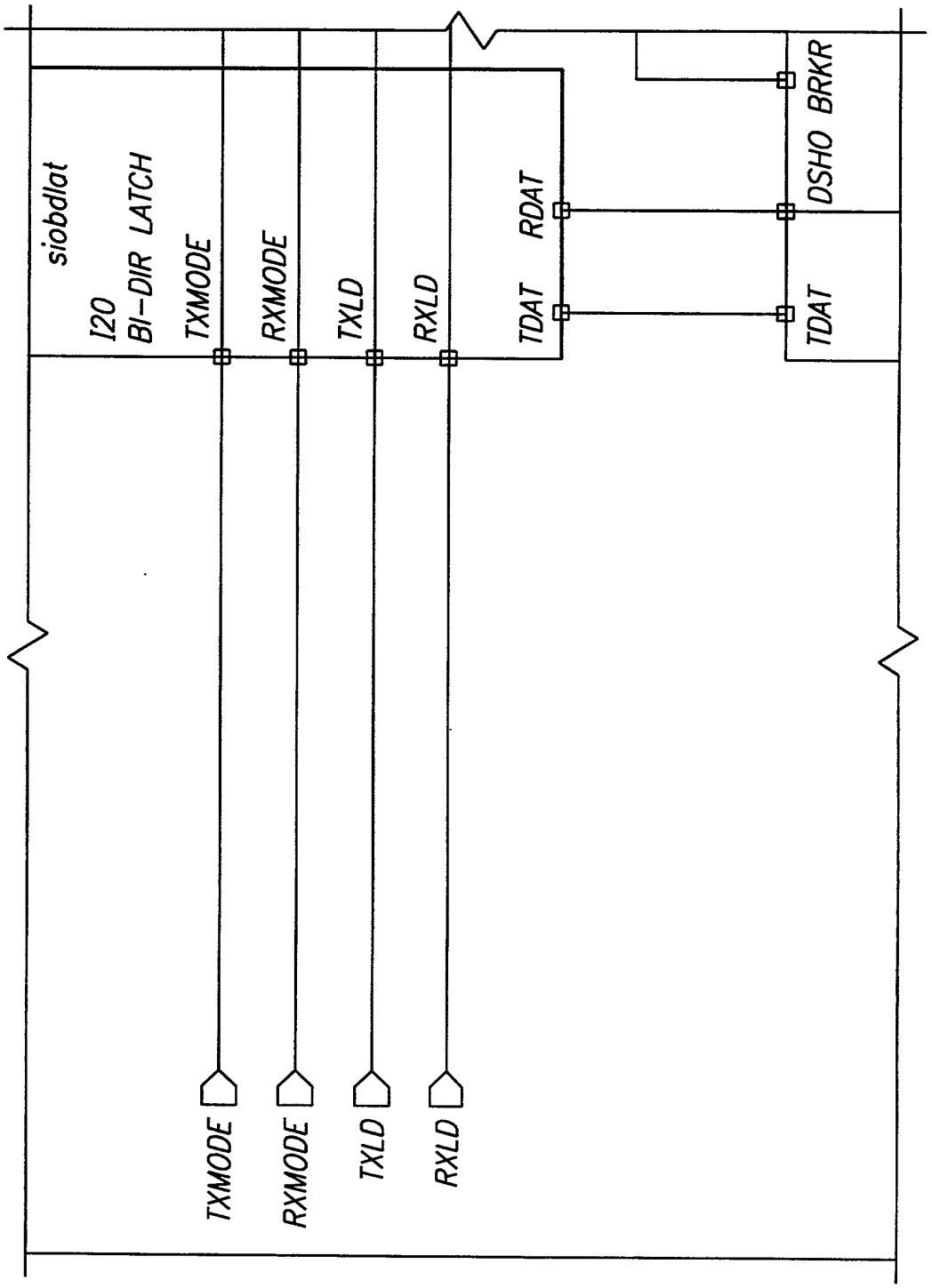
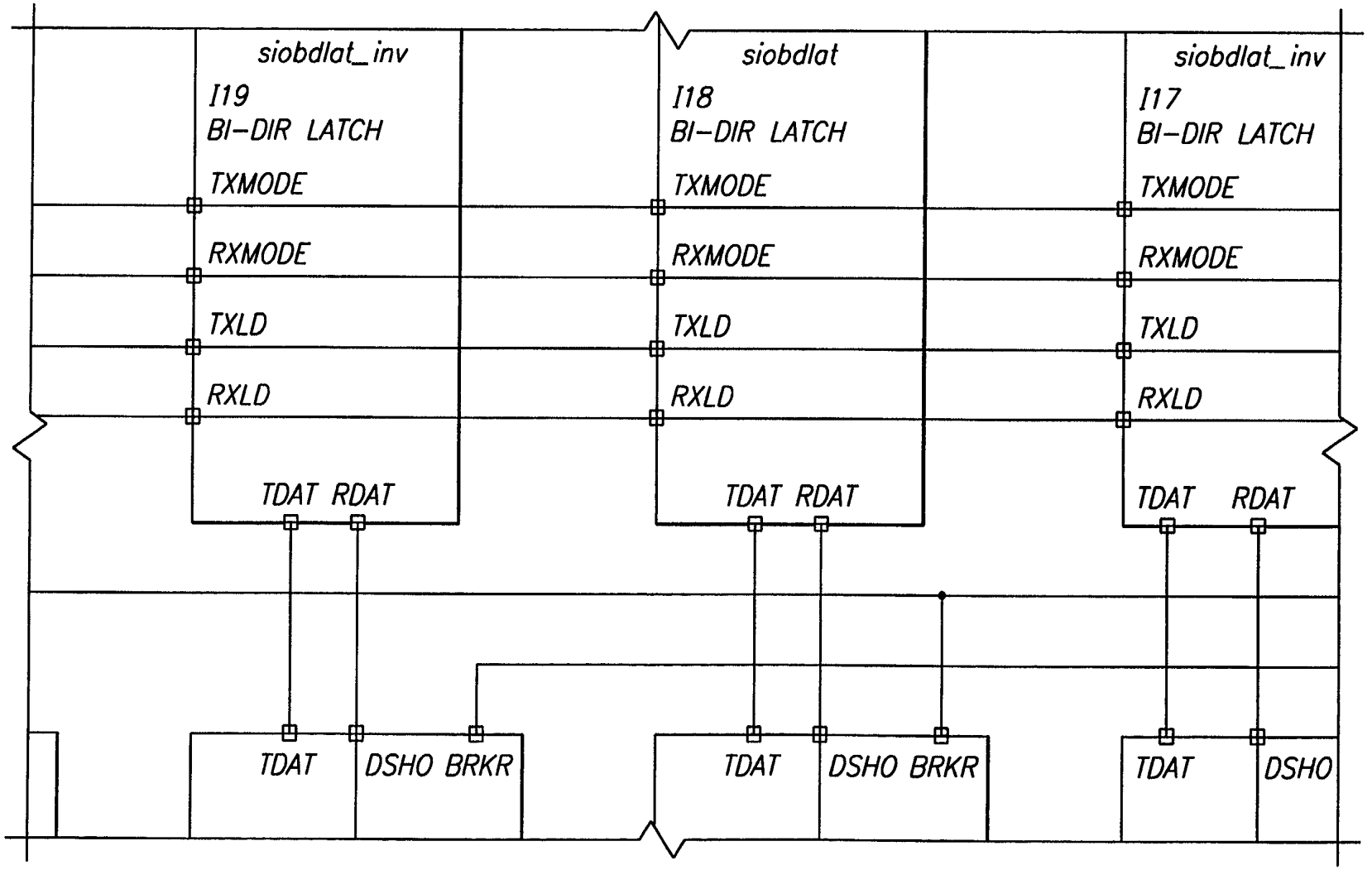
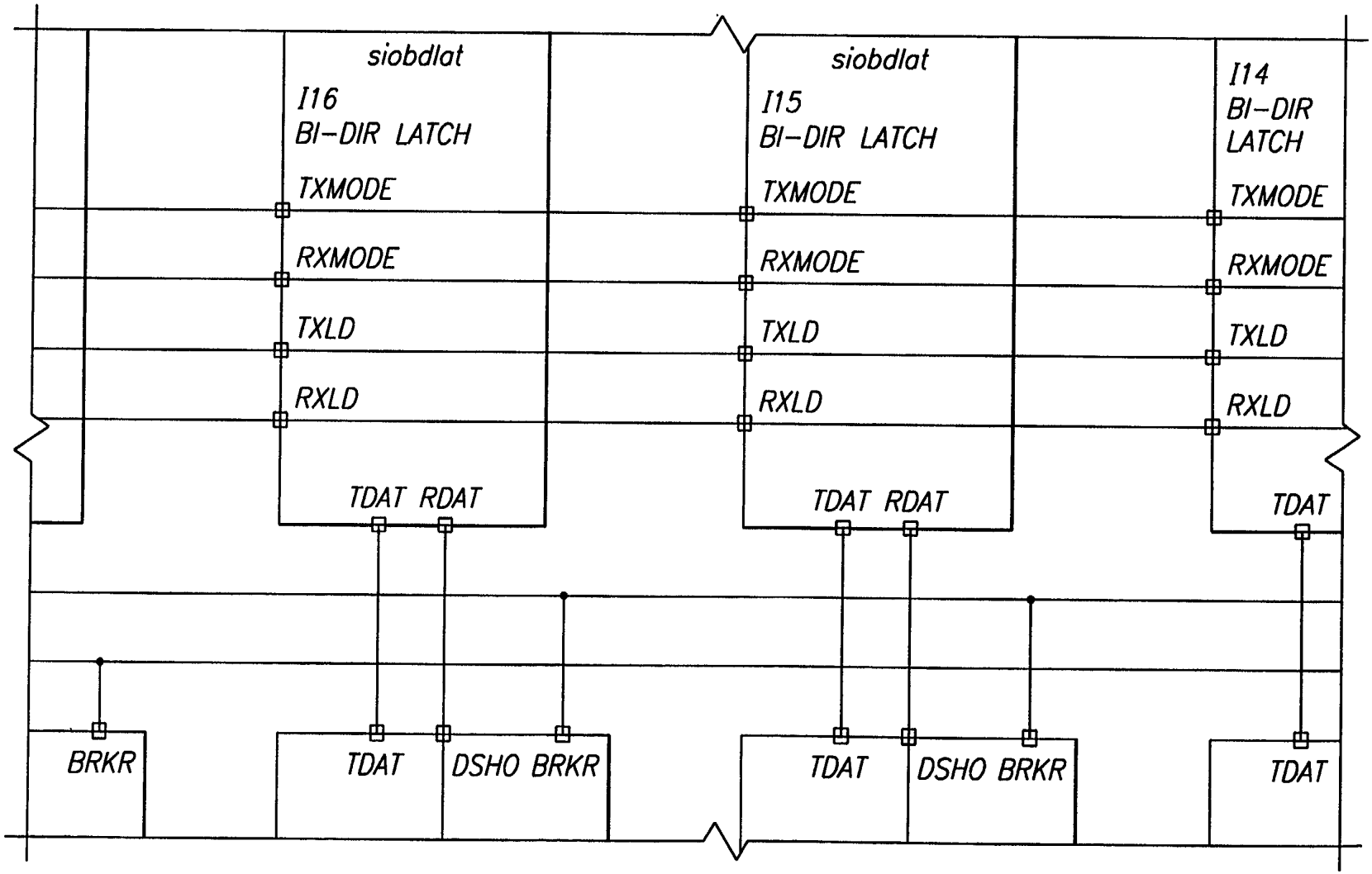


Fig 11.14(IFA)



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Fig 7.14(b)



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Fig 7.14MIFC

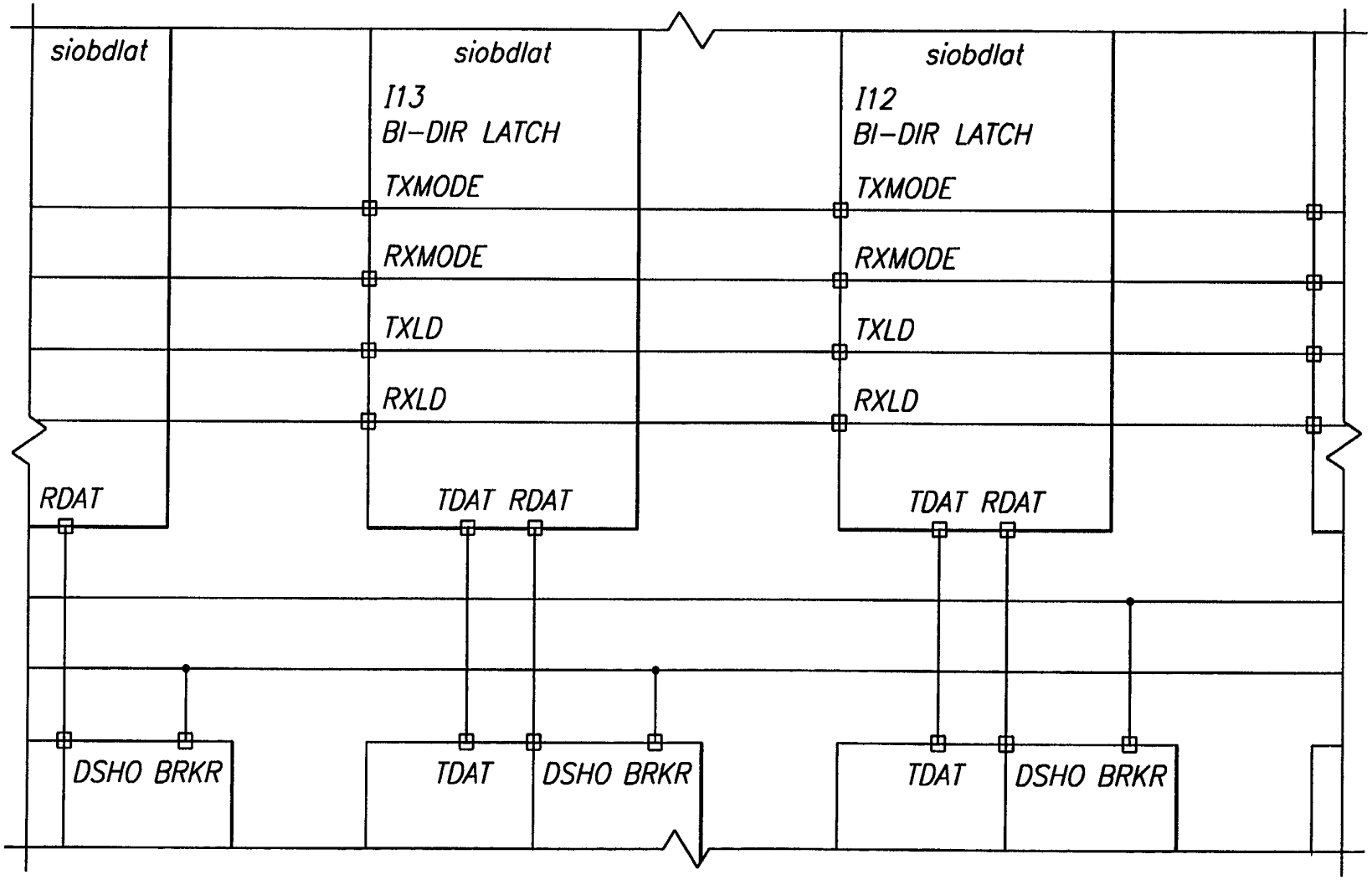


Fig 7.14001FD

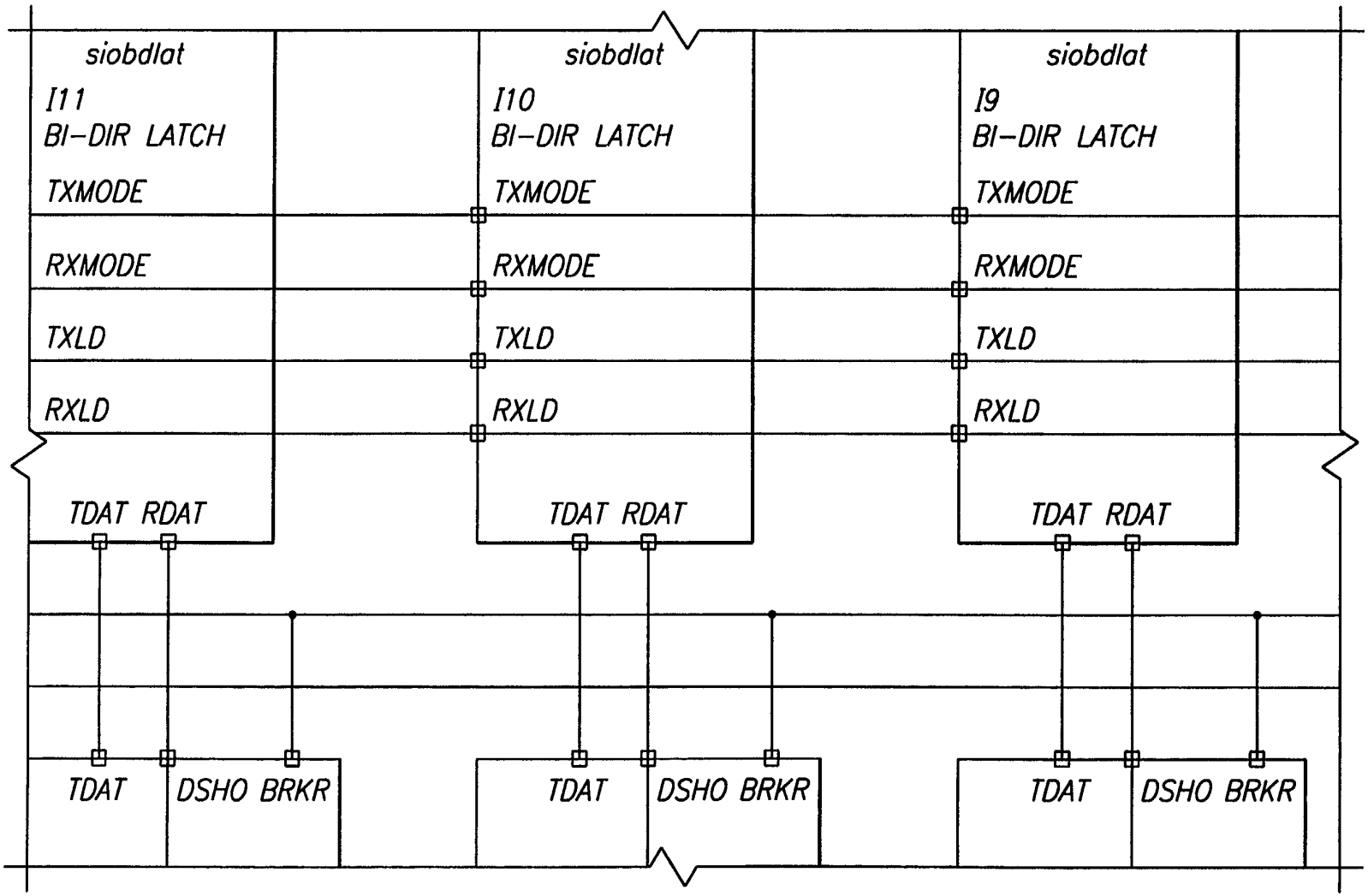


Fig 7.14-40IFE

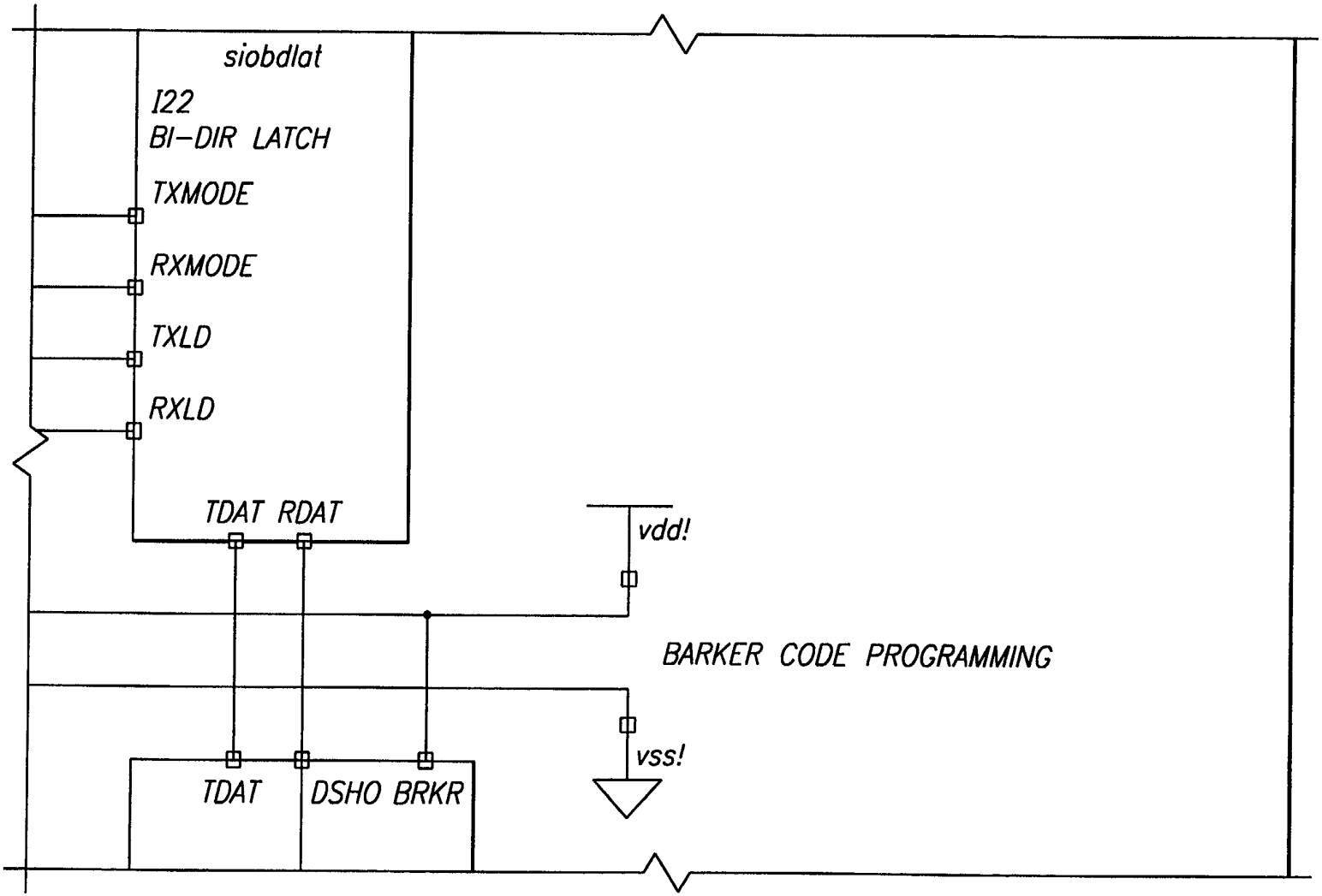

siobdlat
I22
BI-DIR LATCH
TXMODE
RXMODE
TXLD
RXLD
TDAT RDAT
vdd!
BARKER CODE PROGRAMMING
vss!
TDAT
DSHO BRKR

Fig 7.14 OFF

EP 0 523 860

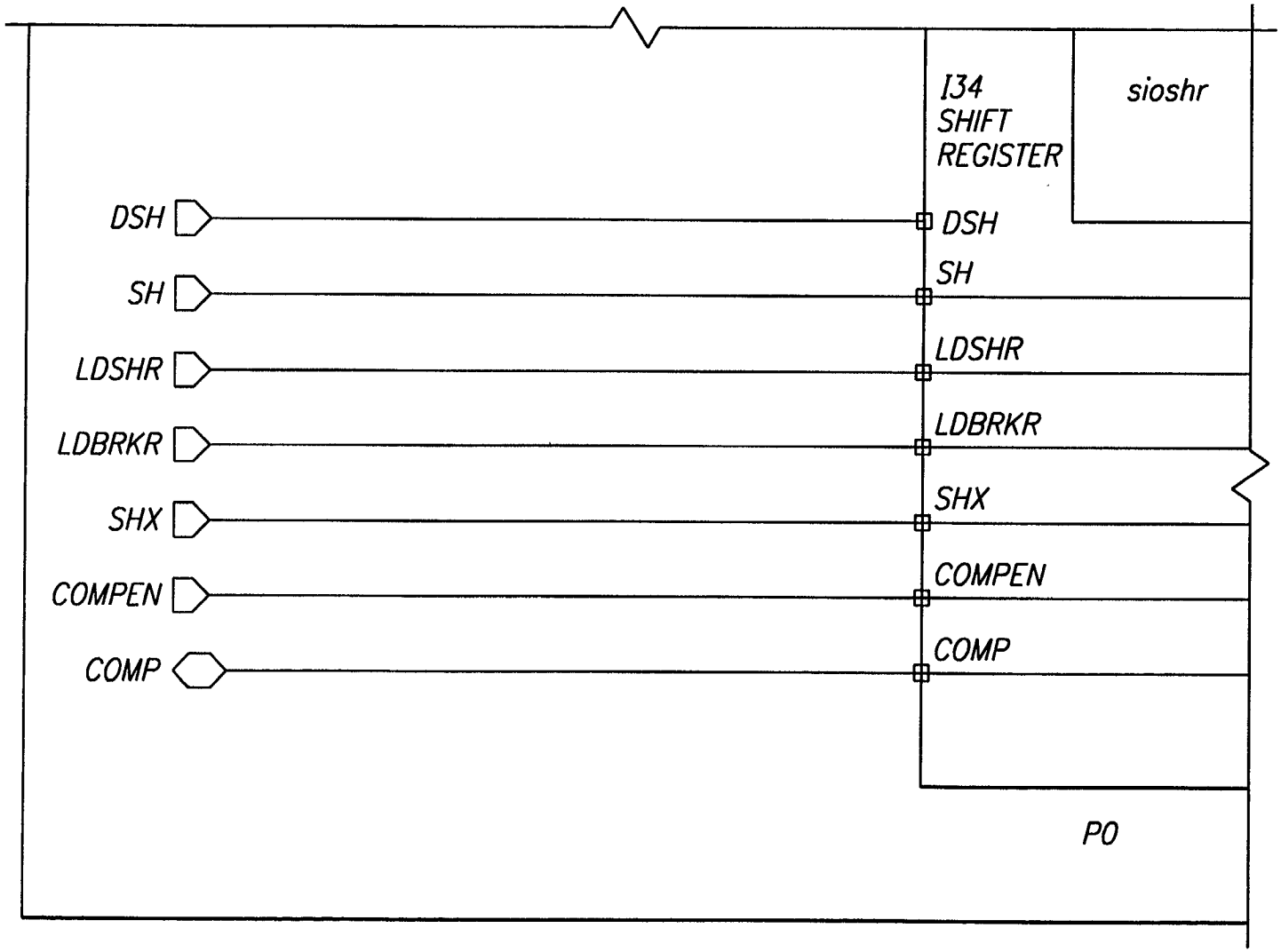
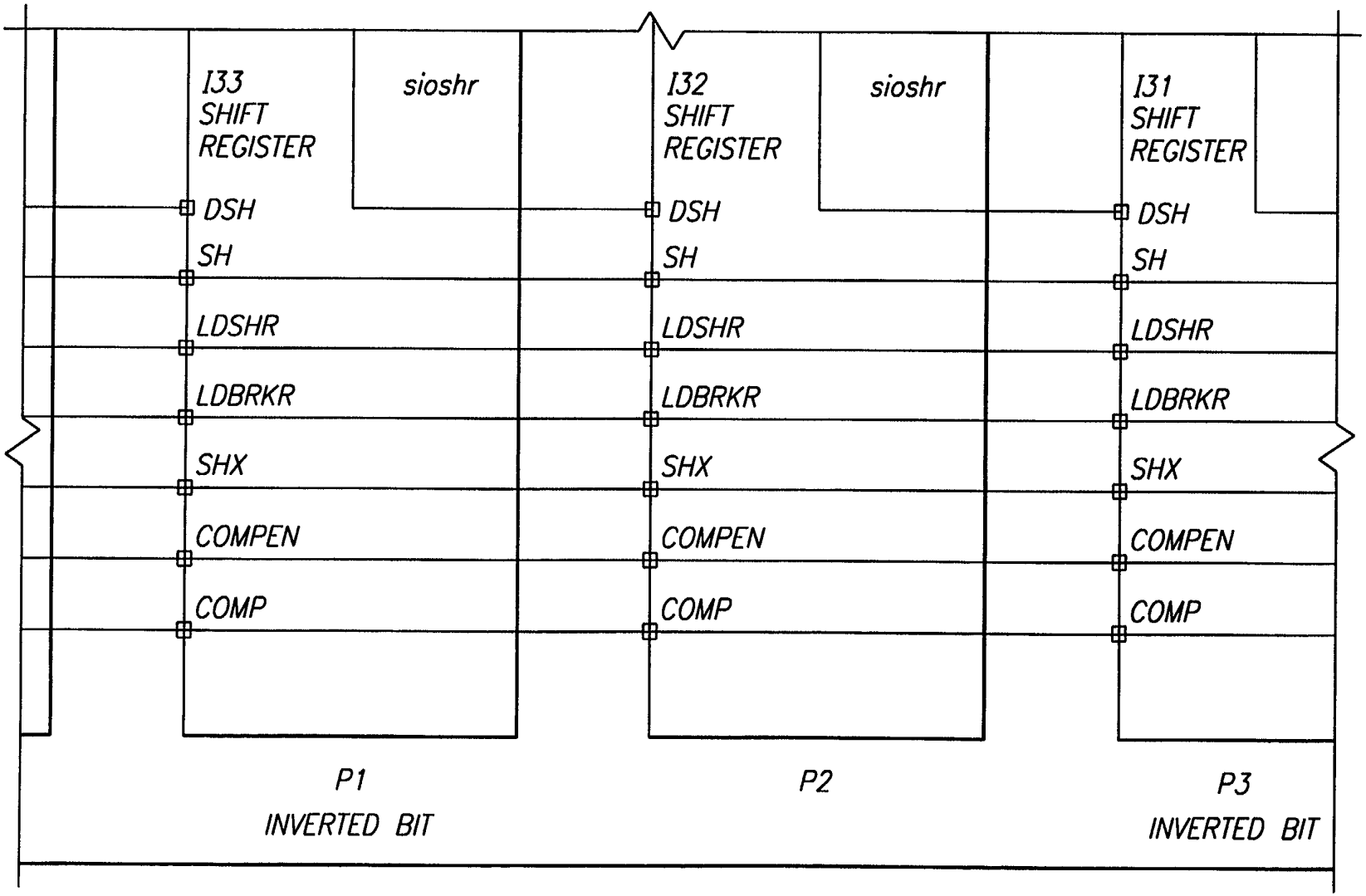


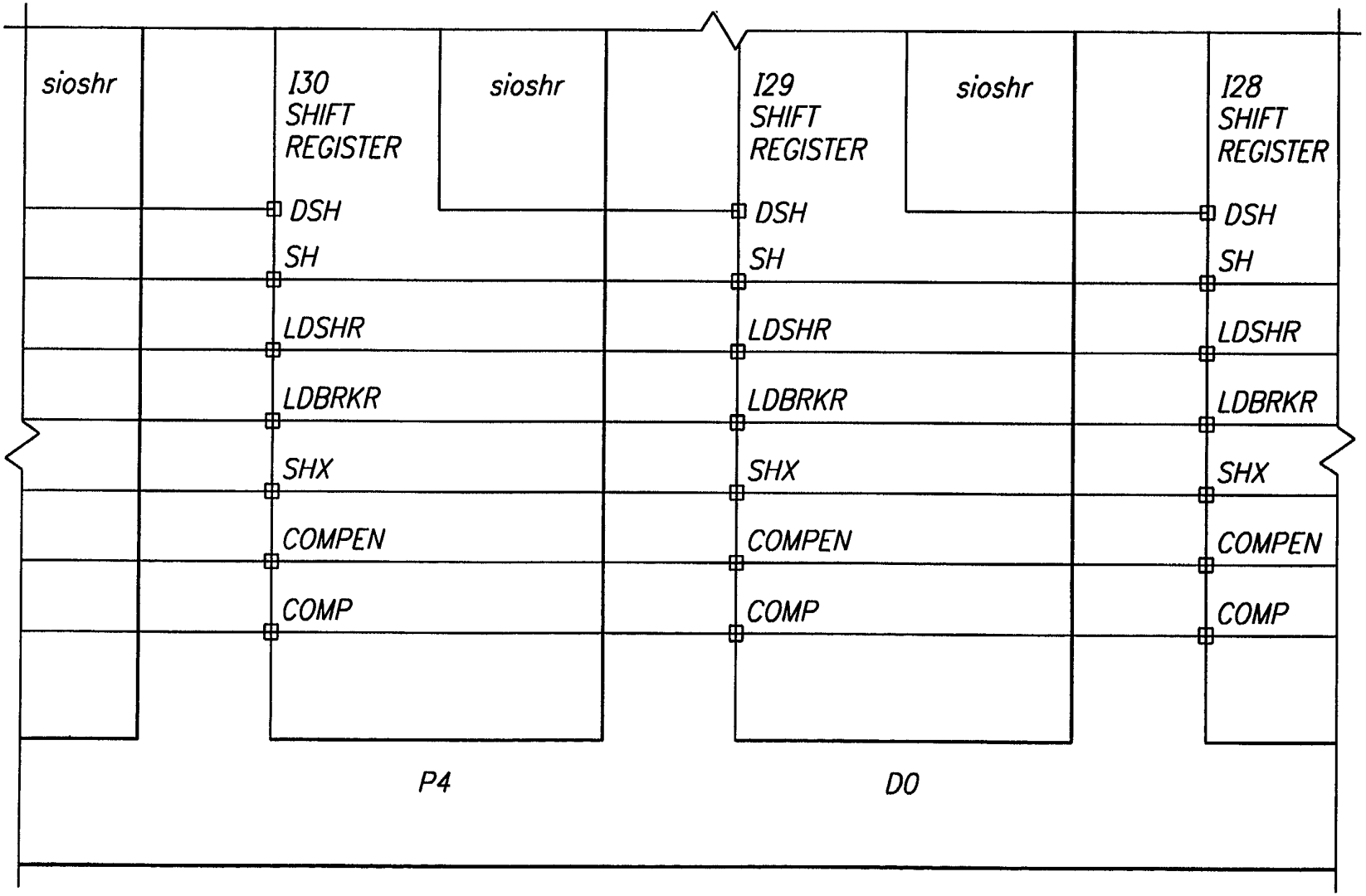
Fig 7.14010GA



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Fig 7.14010GB

IDT190 E9D22B60



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Fig 1.14001GC

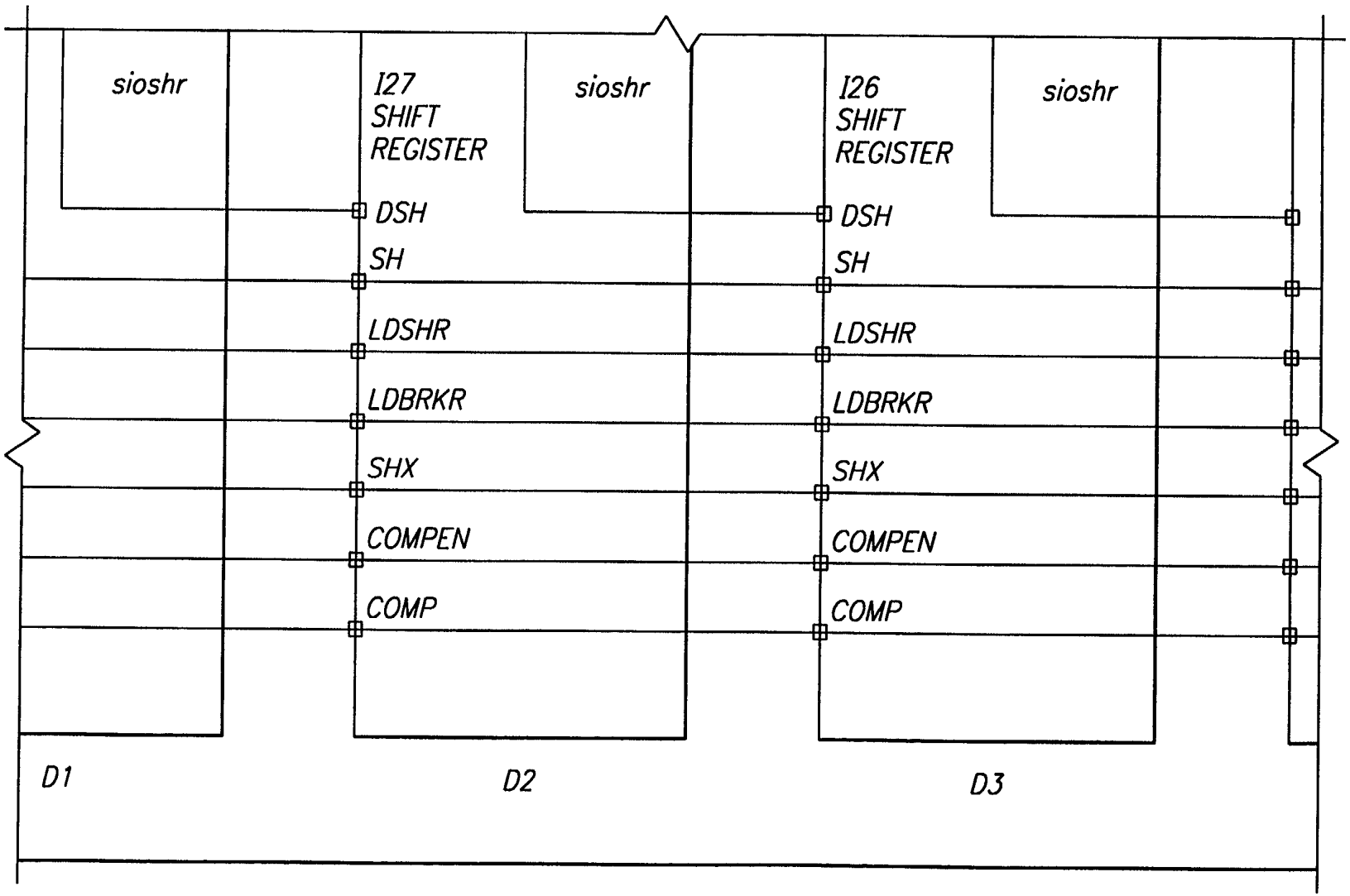

sioshr
I27
SHIFT
REGISTER
sioshr
I26
SHIFT
REGISTER
sioshr
DSH
SH
LDSHR
LDBRKR
SHX
COMPEN
COMP
DSH
SH
LDSHR
LDBRKR
SHX
COMPEN
COMP
D1
D2
D3

Fig 7.14016D

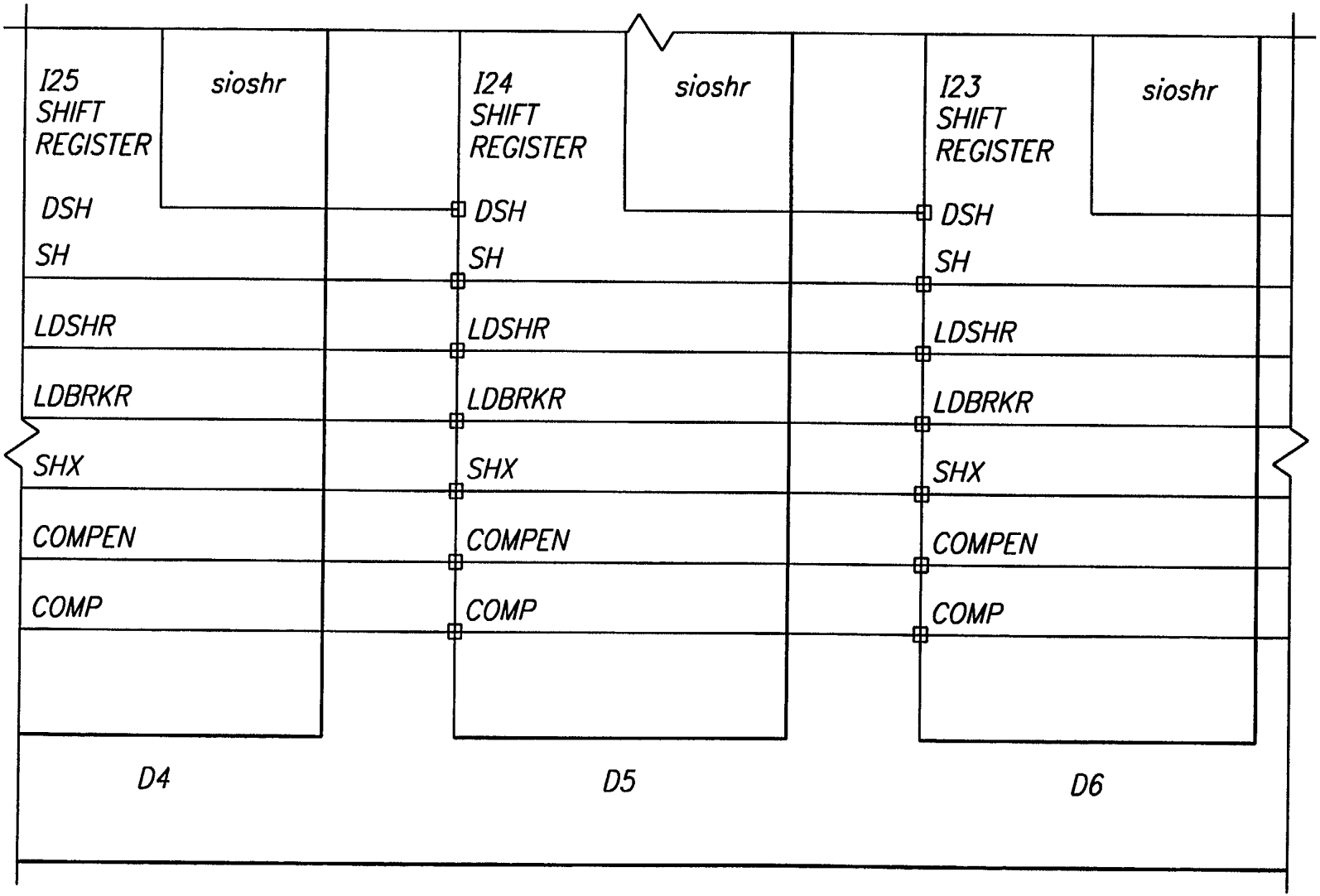
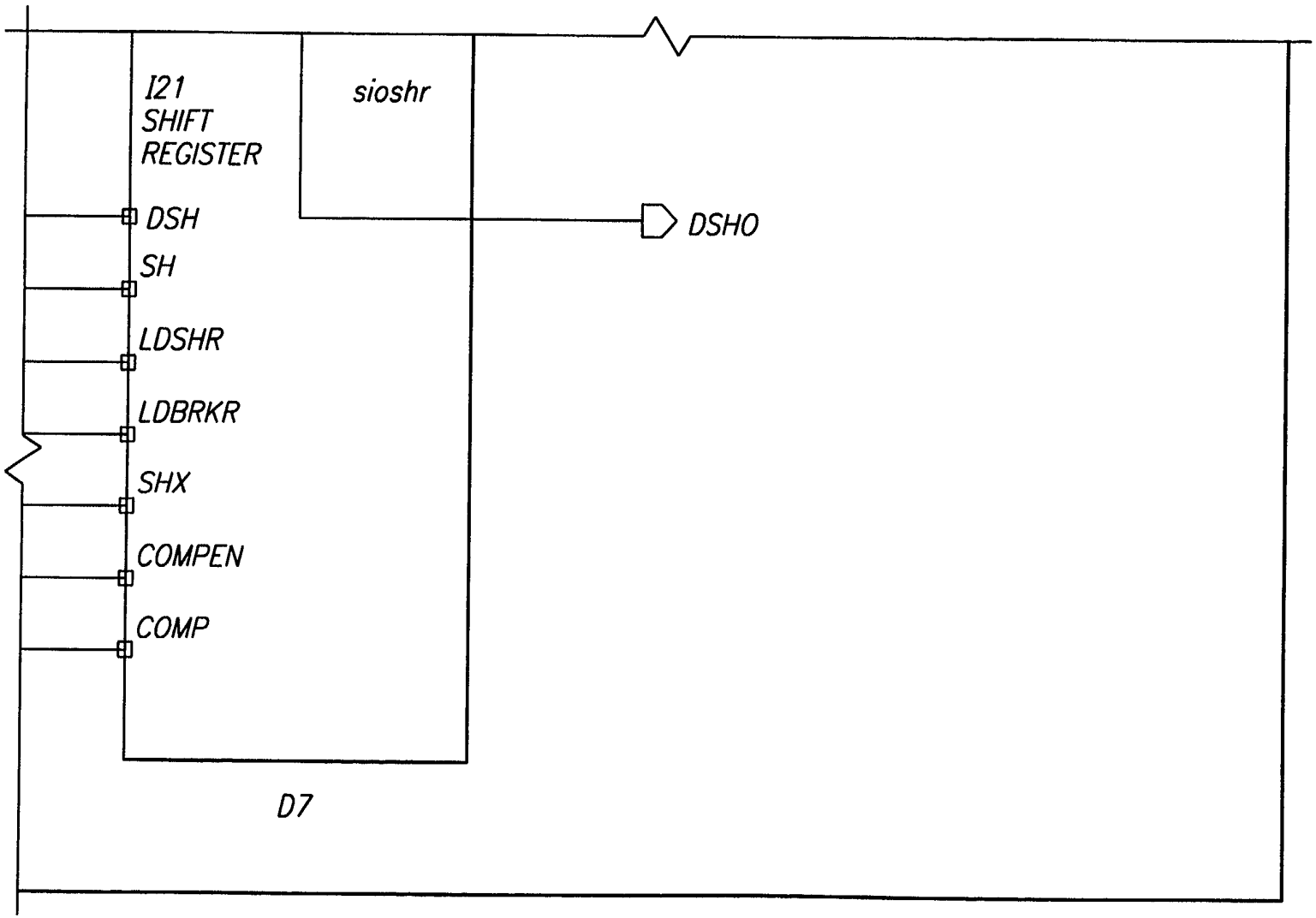

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SHIFT
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sioshr
I24
SHIFT
REGISTER
sioshr
I23
SHIFT
REGISTER
sioshr
DSH
SH
LDSHR
LDBRKR
SHX
COMPEN
COMP
D4
D5
D6

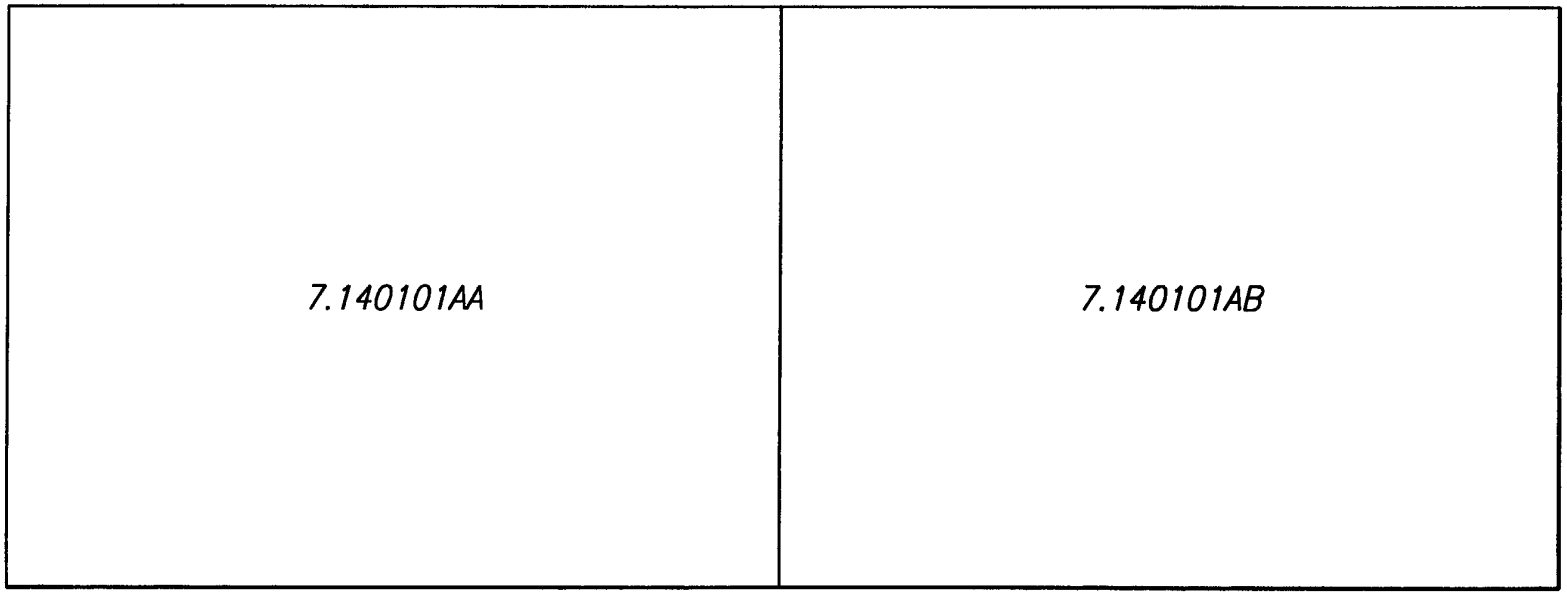
Fig 1.14016E



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Fig 1.14010F

ТОТЭП "Е90238Б"



Лист 7.140101

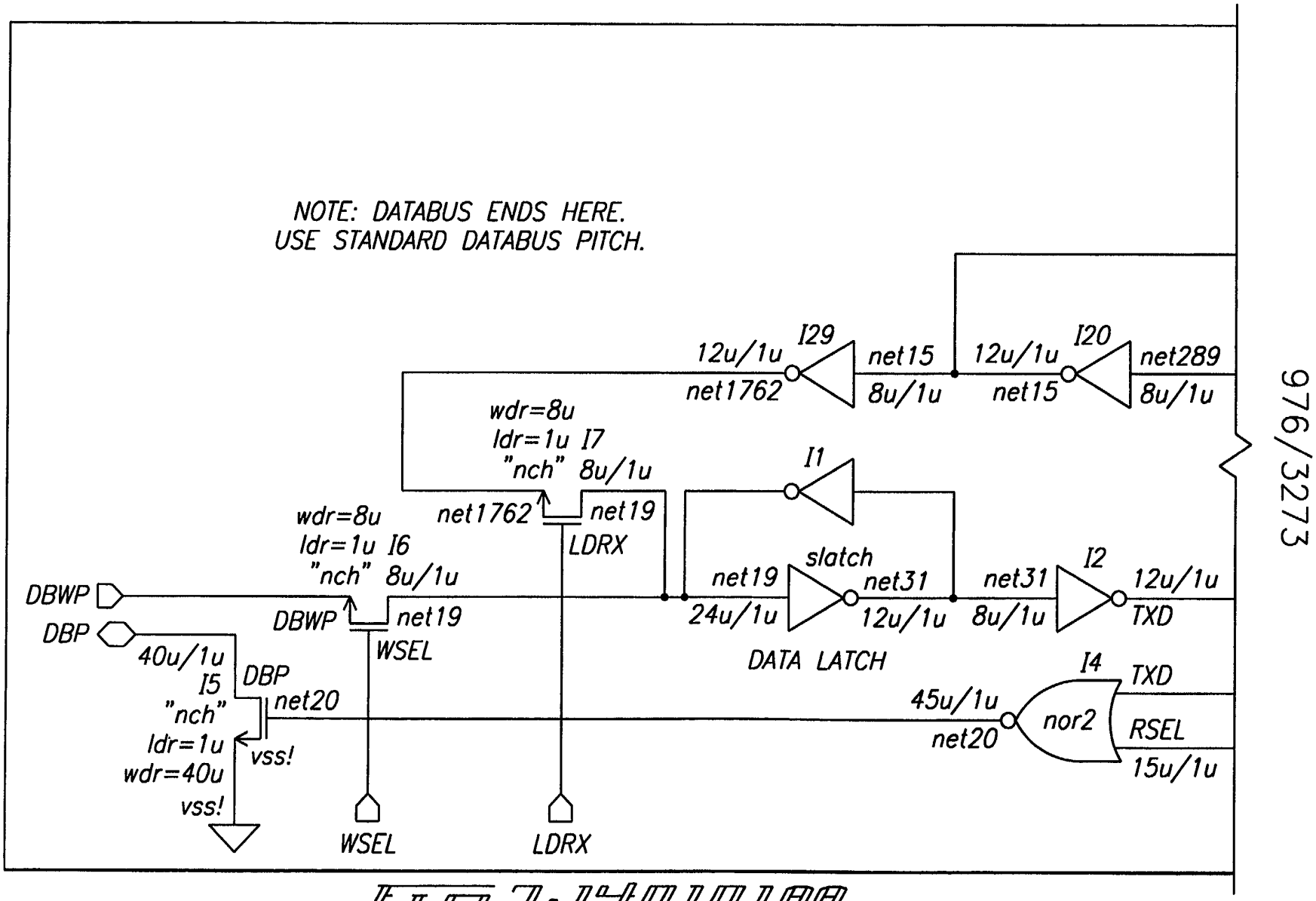


Fig 7.14a1001AA

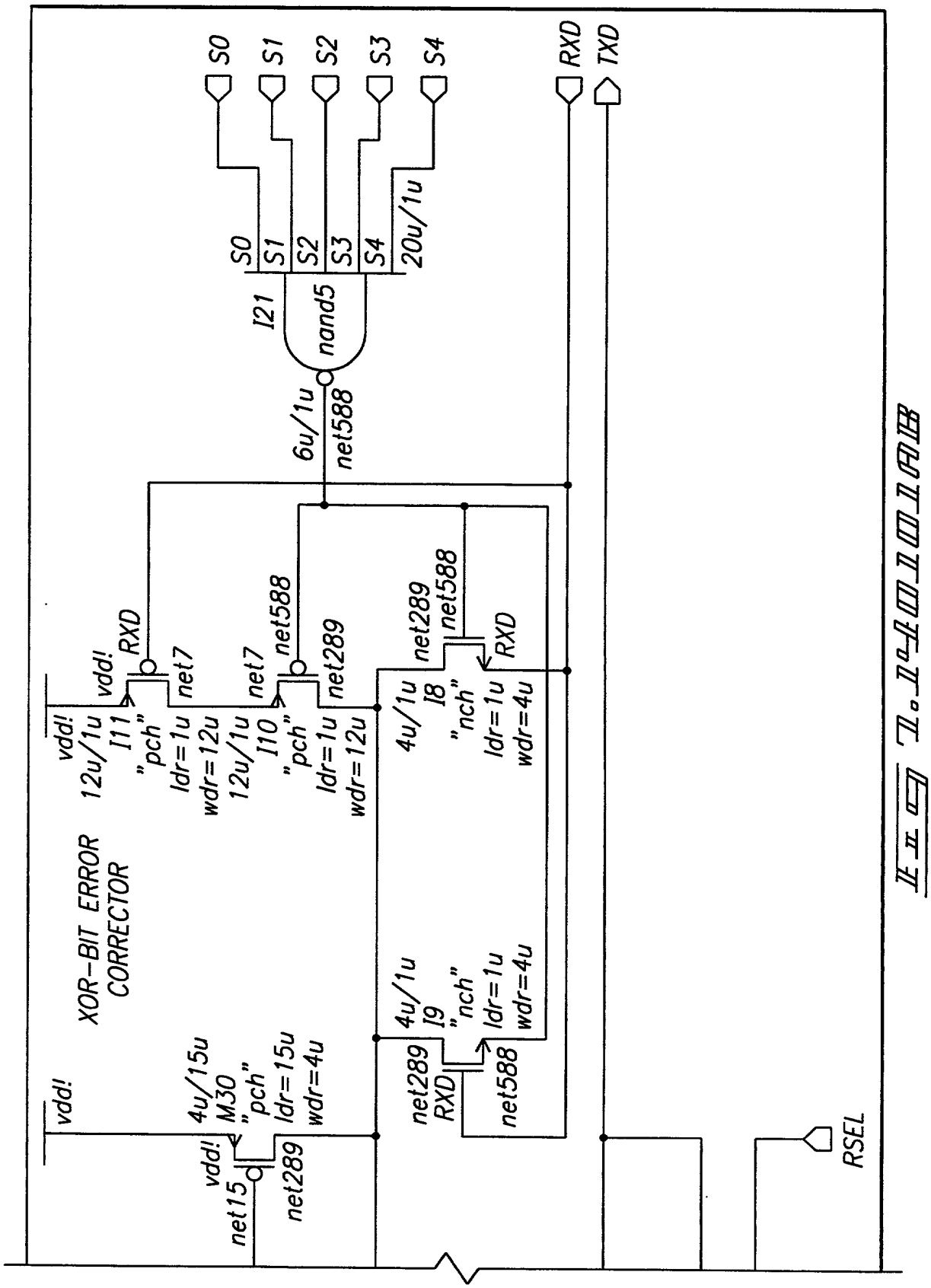


FIG 1 (PRIOR ART)

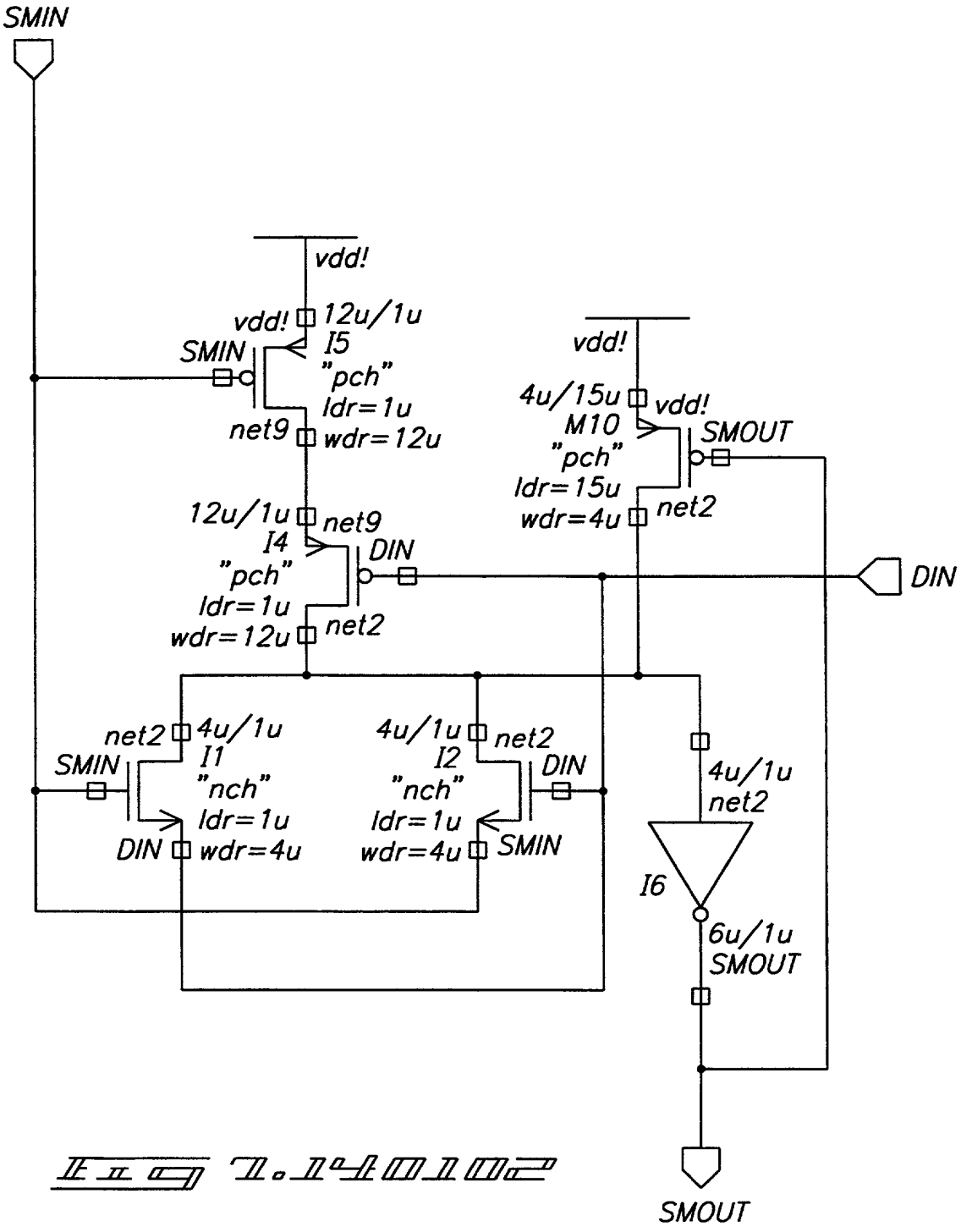

SMIN
vdd!
vdd!
12u/1u
I5
"pch"
ldr=1u
wdr=12u
SMIN
net9
vdd!
4u/15u
M10
"pch"
ldr=15u
wdr=4u
vdd!
SMOUT
net2
12u/1u
I4
"pch"
ldr=1u
wdr=12u
net9
DIN
net2
DIN
net2
4u/1u
I1
"nch"
ldr=1u
wdr=4u
SMIN
DIN
4u/1u
I2
"nch"
ldr=1u
wdr=4u
net2
DIN
SMIN
4u/1u
net2
I6
6u/1u
SMOUT
SMOUT

Fig 7.14M102

IDI190"E902286D

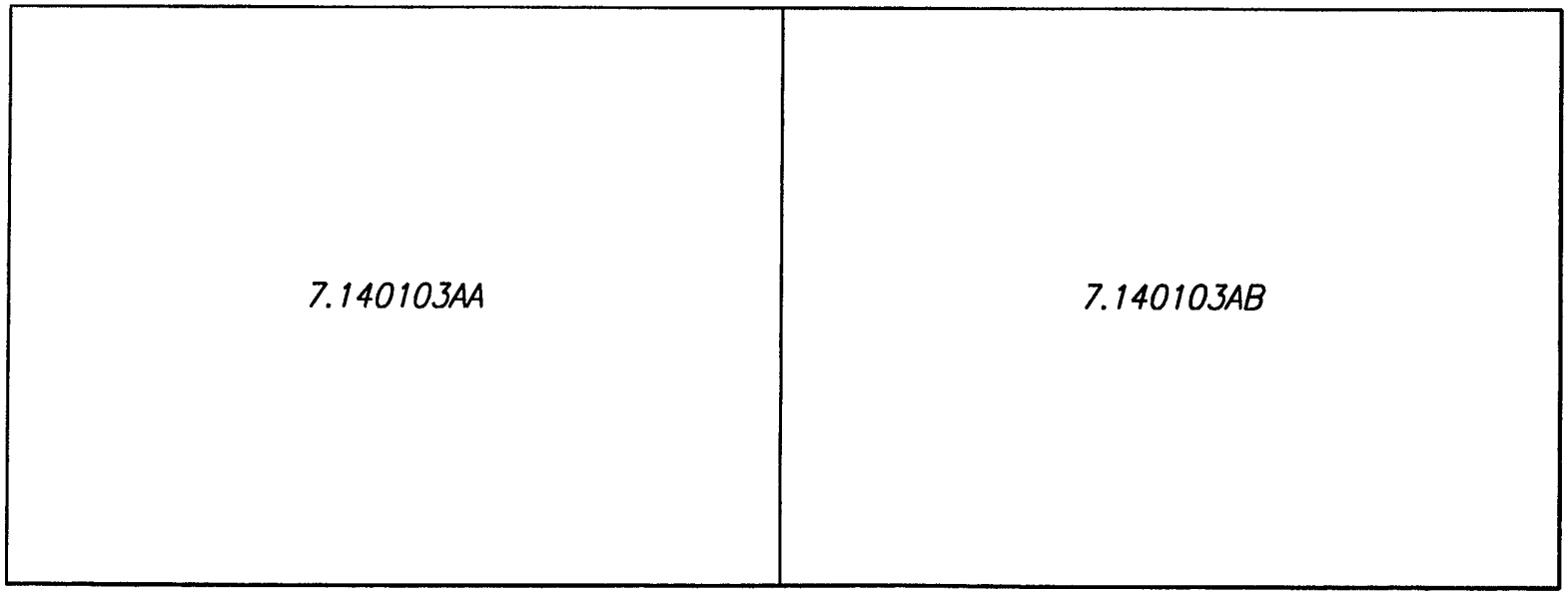


Fig 7.140103

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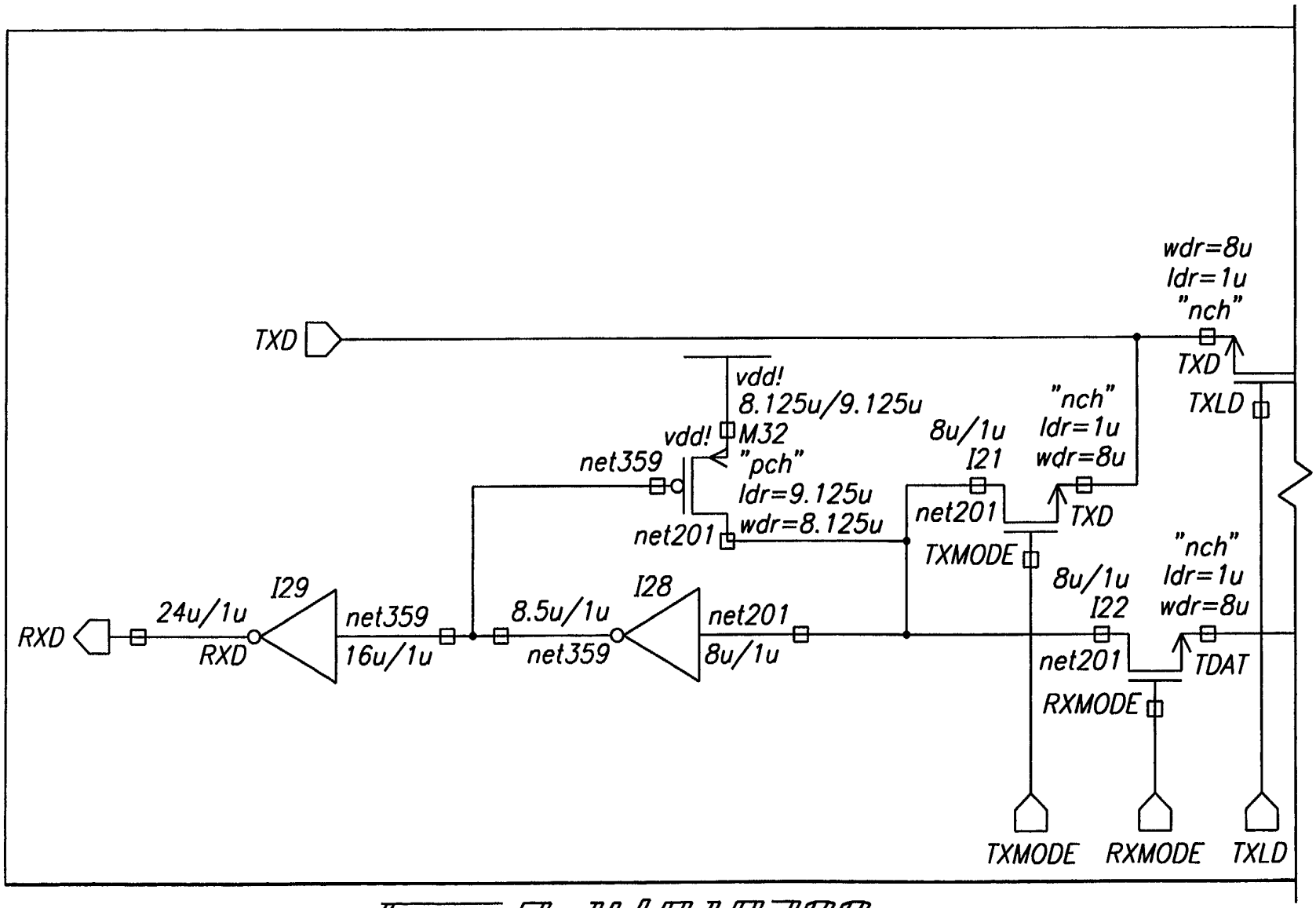
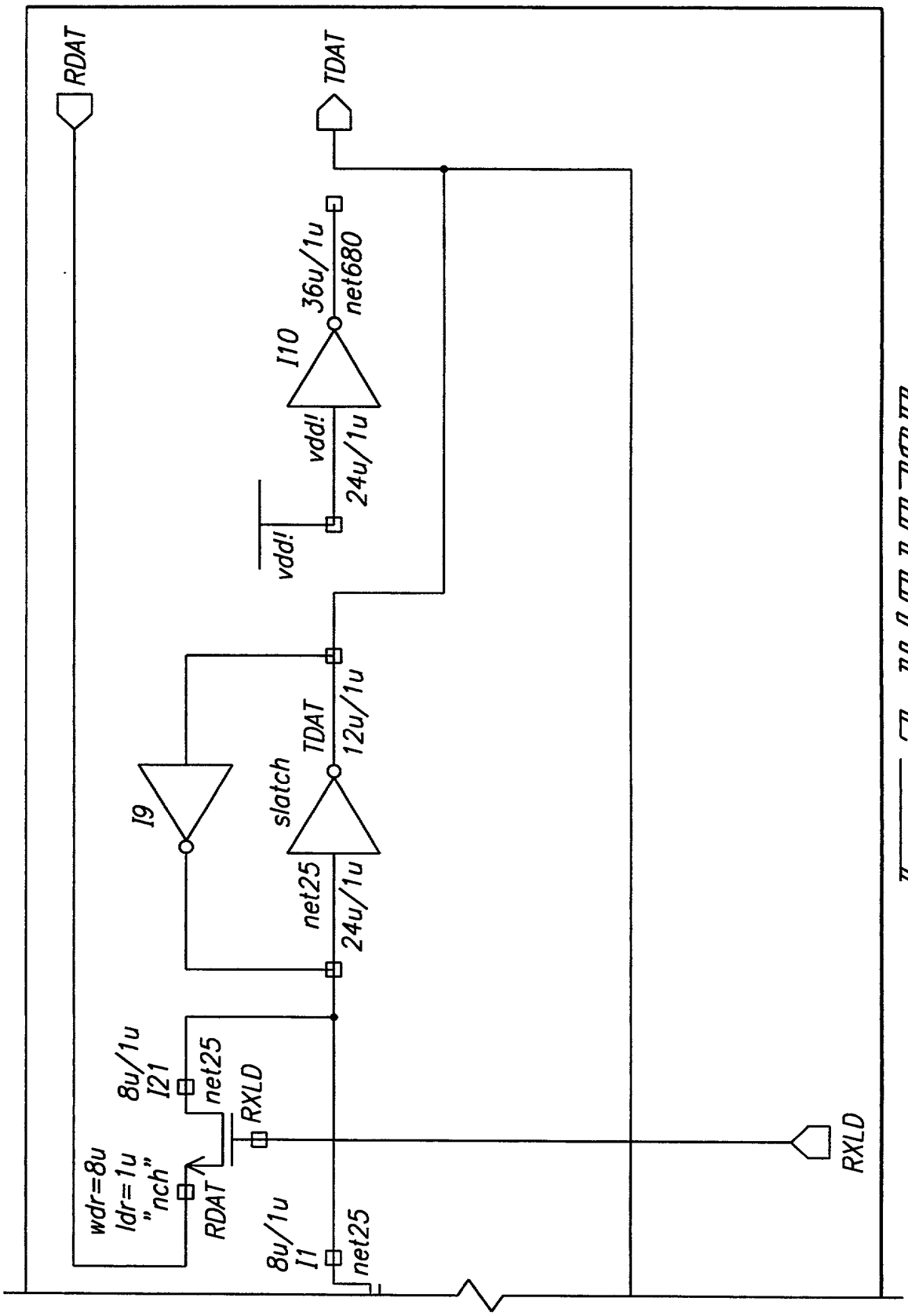

TXD
wdr=8u
ldr=1u
"nch"
TXD
TXLD
vdd!
8.125u/9.125u
vdd!
M32
"pch"
ldr=9.125u
wdr=8.125u
net359
net201
8u/1u
I21
"nch"
ldr=1u
wdr=8u
net201
TXD
TXMODE
"nch"
ldr=1u
wdr=8u
8u/1u
I22
net201
TDAT
RXMODE
I29
24u/1u
RXD
RXD
net359
16u/1u
8.5u/1u
net359
I28
net201
8u/1u
TXMODE
RXMODE
TXLD
980/3273

Fig 1.1


RDAT
TDAT
I10
36u/1u
net680
vdd!
24u/1u
vdd!
I9
slatch
TDAT
12u/1u
net25
24u/1u
8u/1u
I21
net25
RXLD
wdr=8u
ldr=1u
"nch"
RDAT
8u/1u
I1
net25
RXLD

Фиг.11

T0T190' E90228A6D

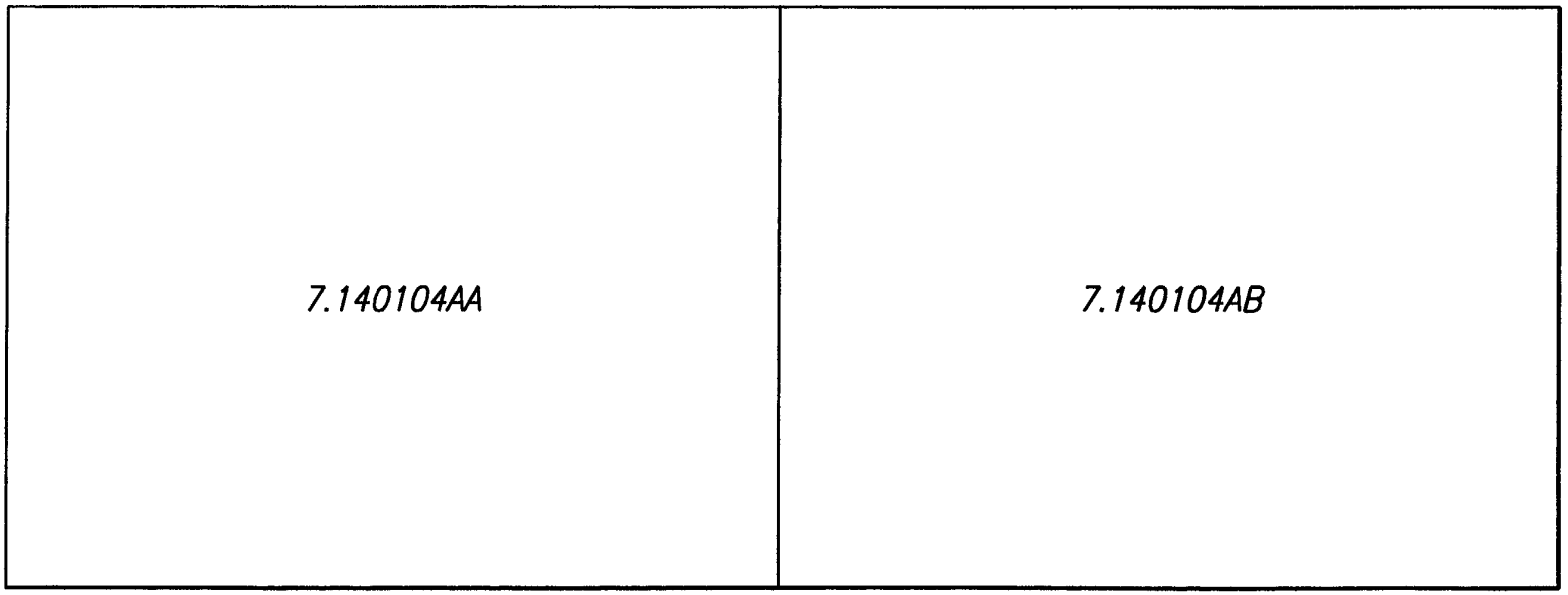


Fig 7.140104

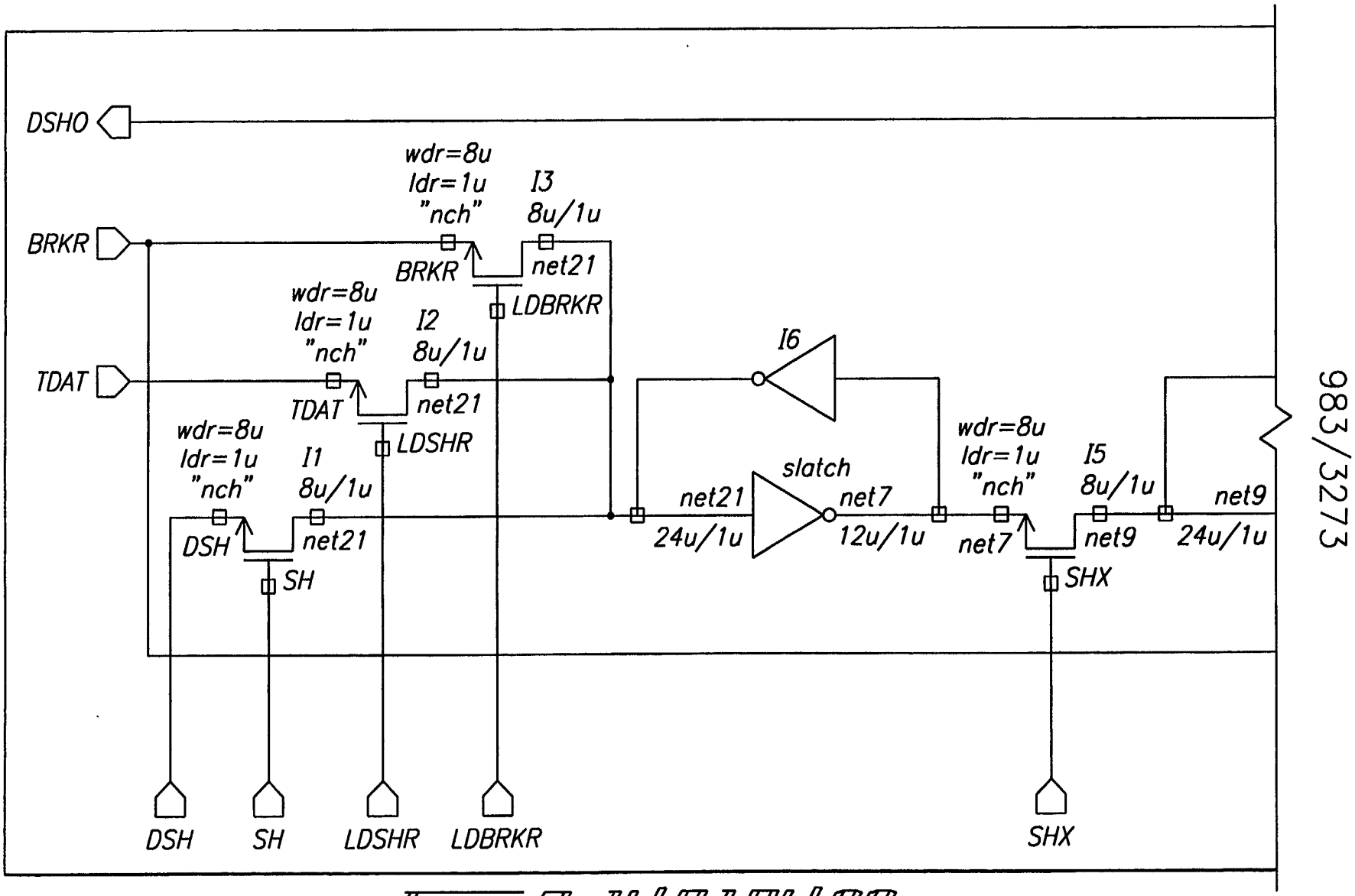
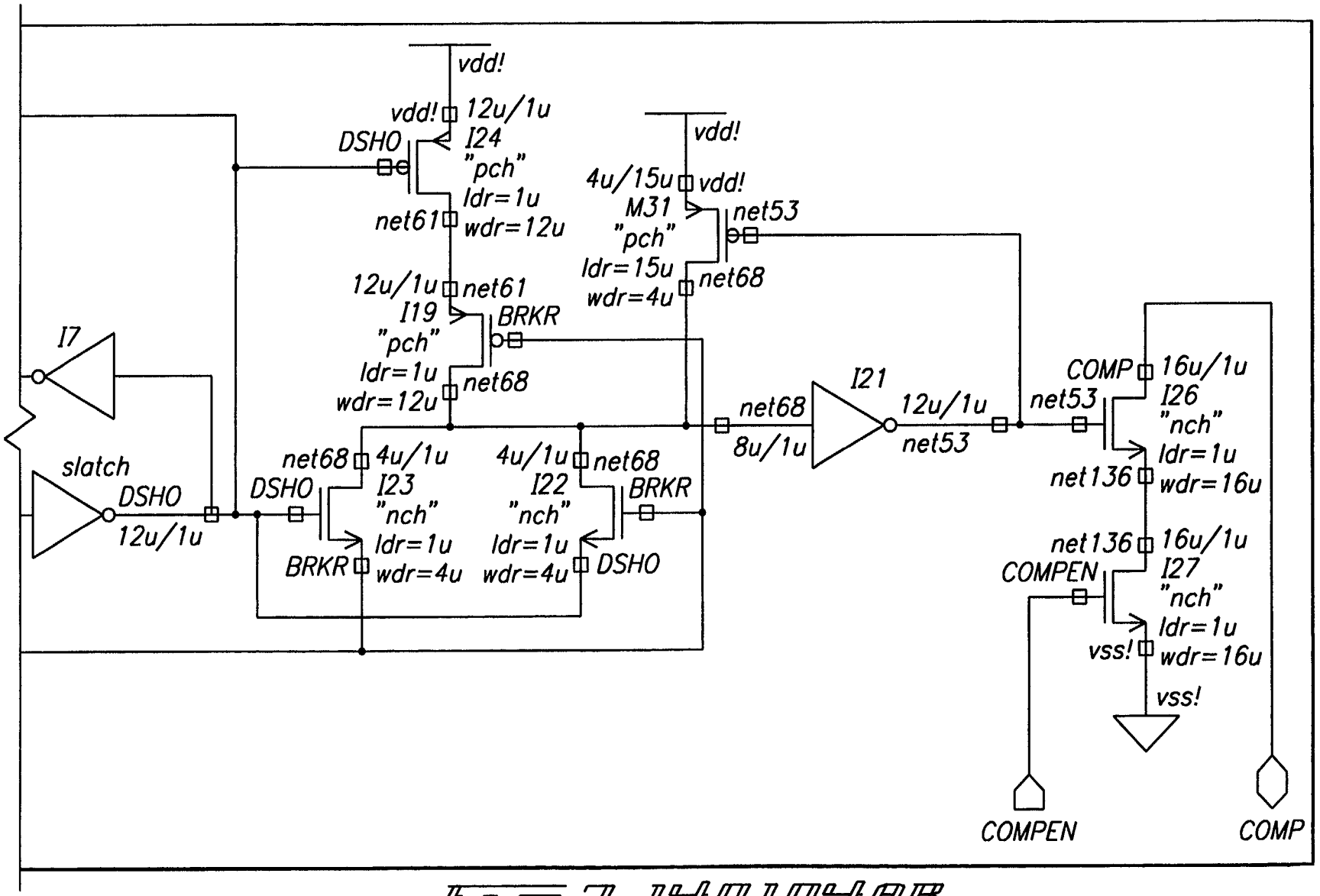


Fig 7.14010040



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Fig 7.1401401AB

Exh 7.140105

Tuesday, 26 October 2010 09:22:26

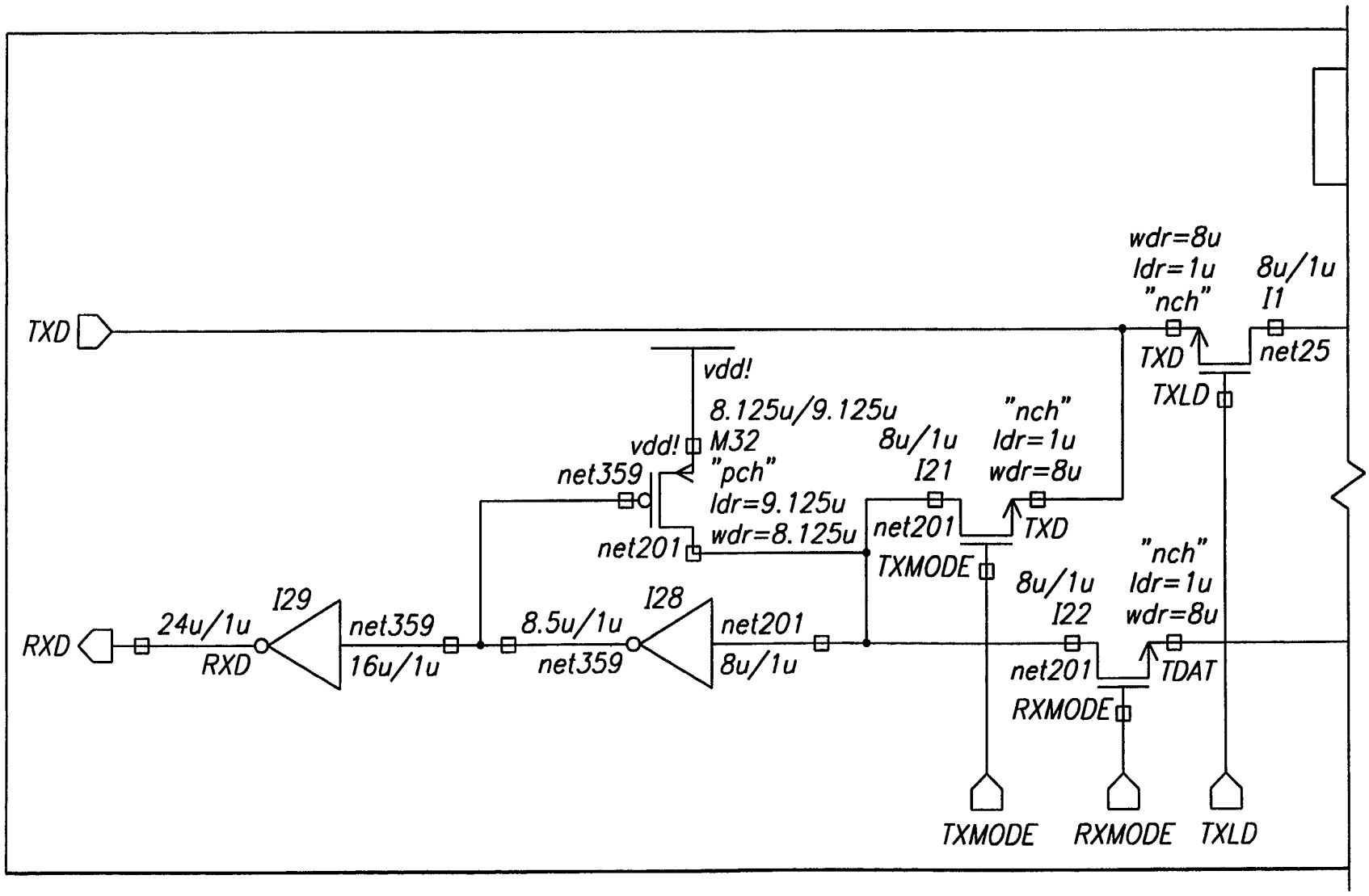
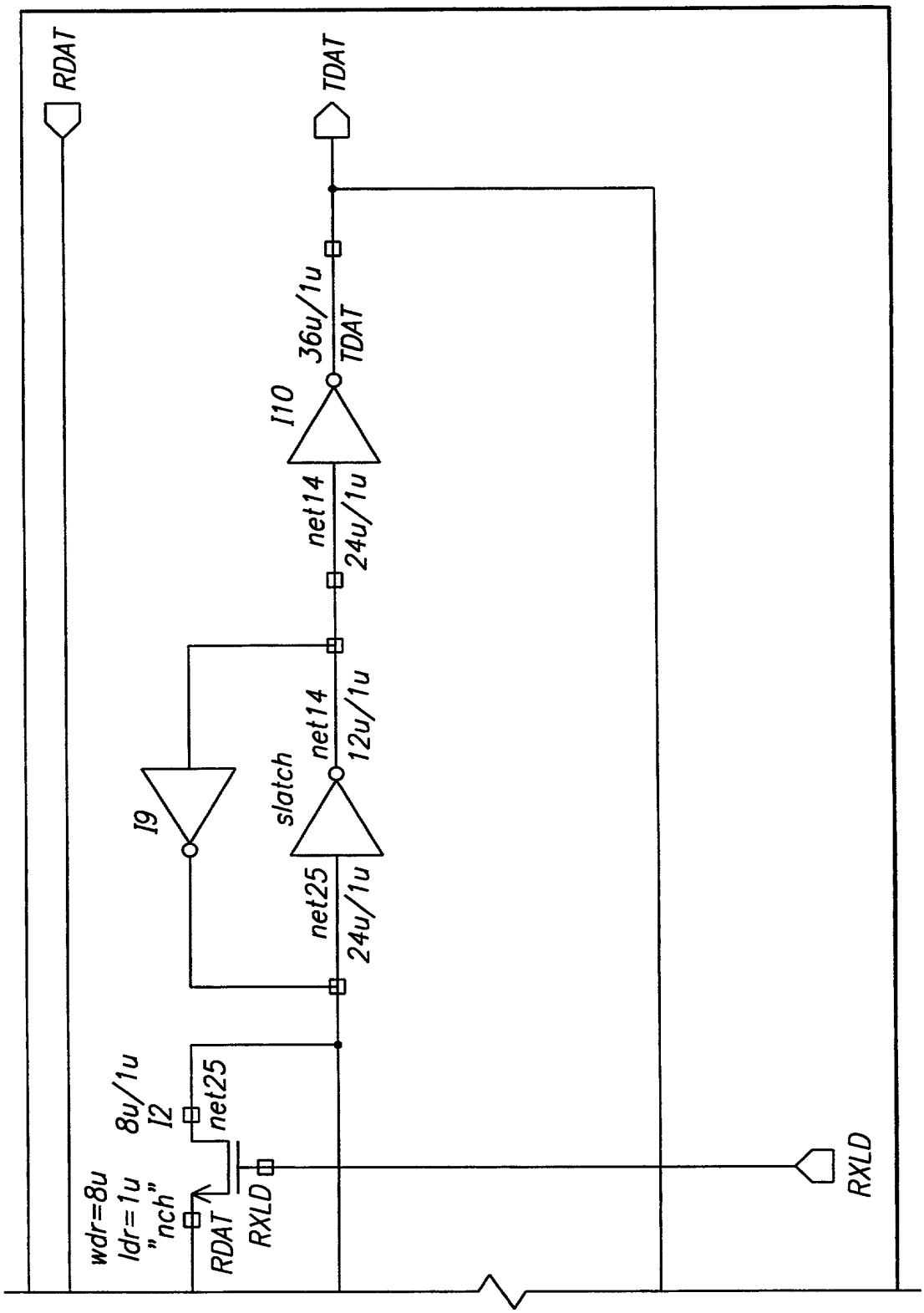


Fig 1.14010SAA



Фиг. 14

1111 Sun Feb 22 2004

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7.1402BA	7.1402BB	7.1402BC	7.1402BD	7.1402BE	7.1402BF	7.1402BG	7.1402BH	7.1402BI
7.1402CA	7.1402CB	7.1402CC	7.1402CD	7.1402CE	7.1402CF	7.1402CG	7.1402CH	7.1402CI
7.1402DA	7.1402DB	7.1402DC	7.1402DD	7.1402DE	7.1402DF	7.1402DG	7.1402DH	7.1402DI
7.1402EA	7.1402EB	7.1402EC	7.1402ED	7.1402EE	7.1402EF	7.1402EG	7.1402EH	7.1402EI

Fig 7.1402

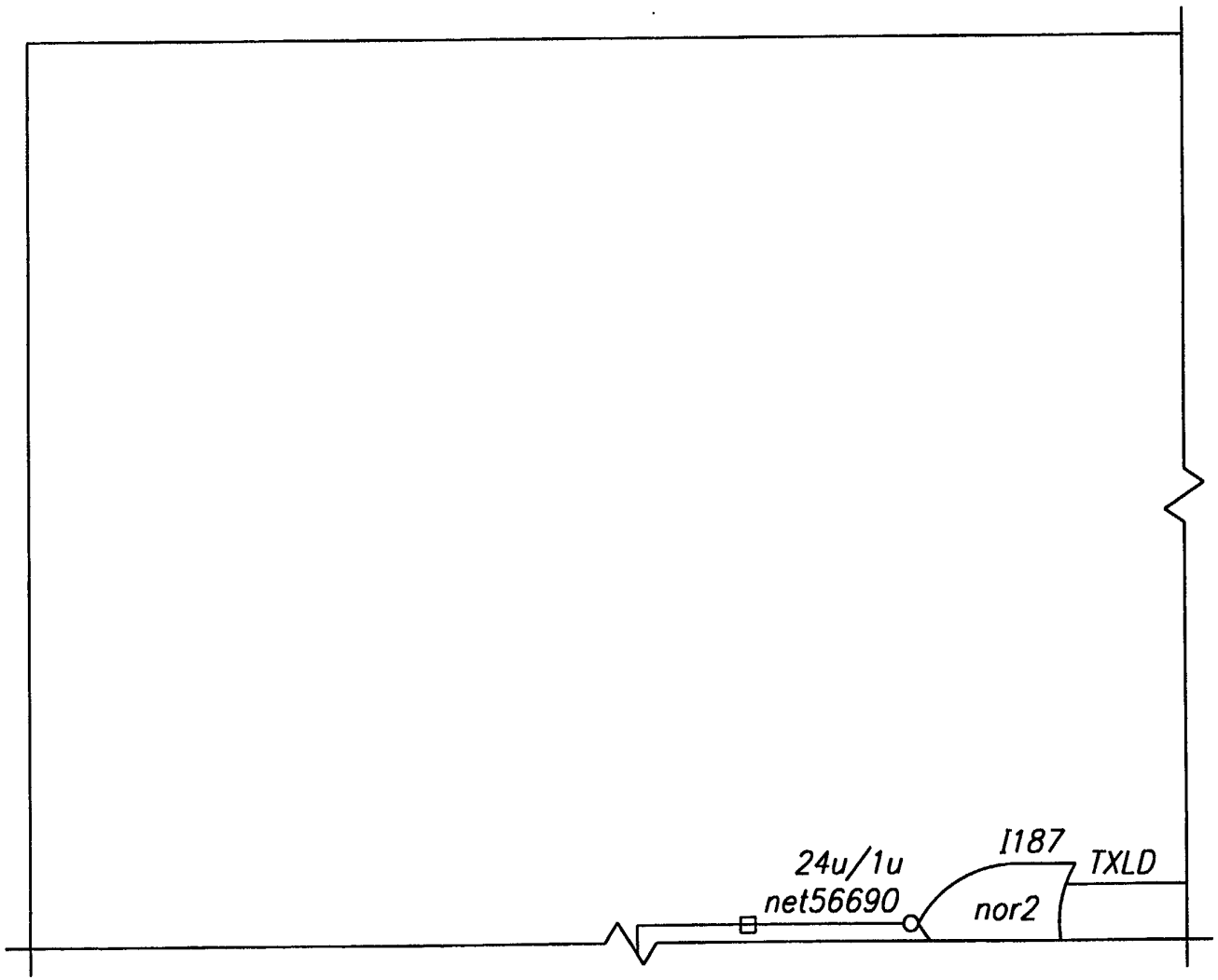
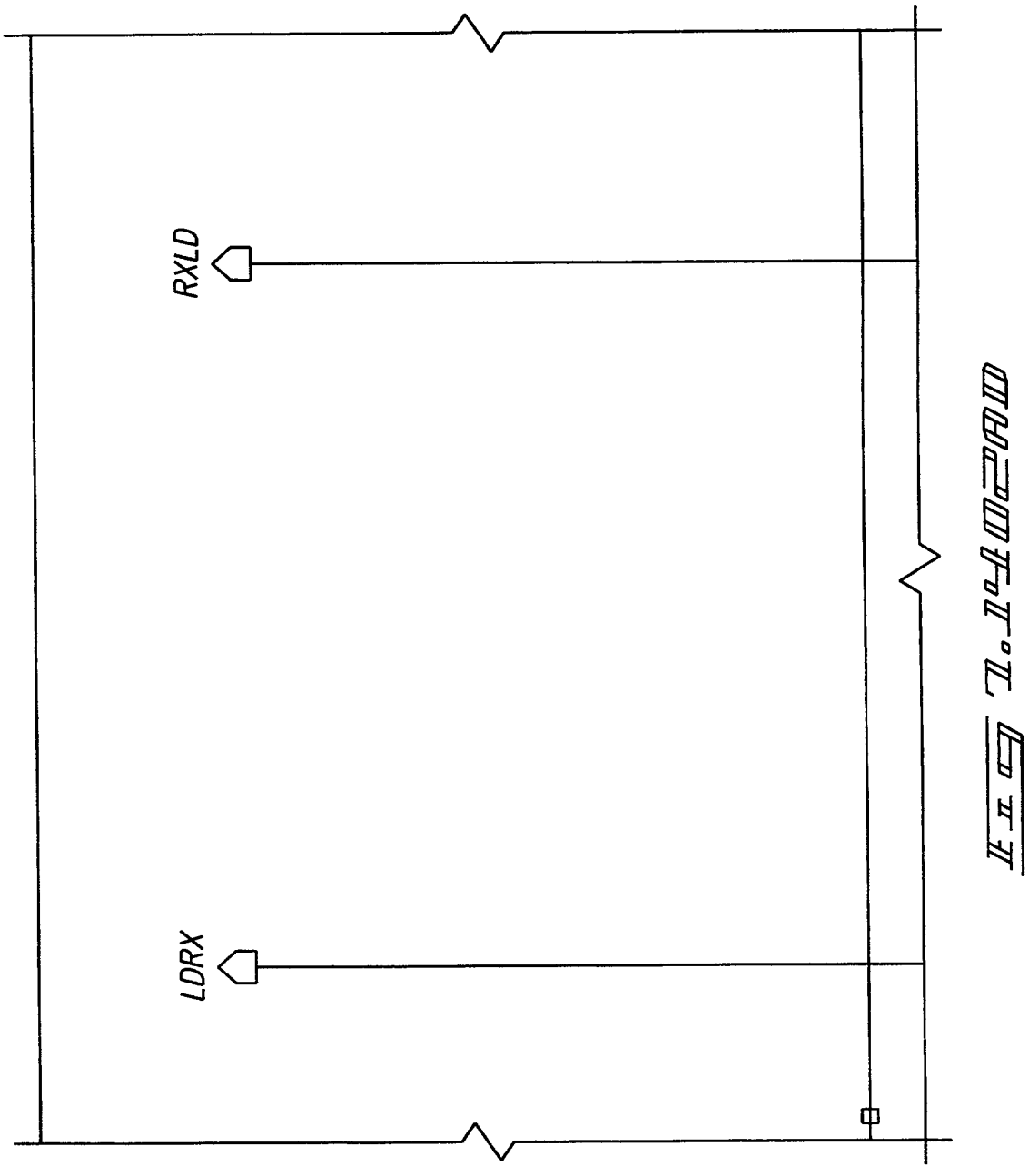


Fig 1.14020AC


RXLD
LDRX
Fig 1

TOTTOO"E9D23868

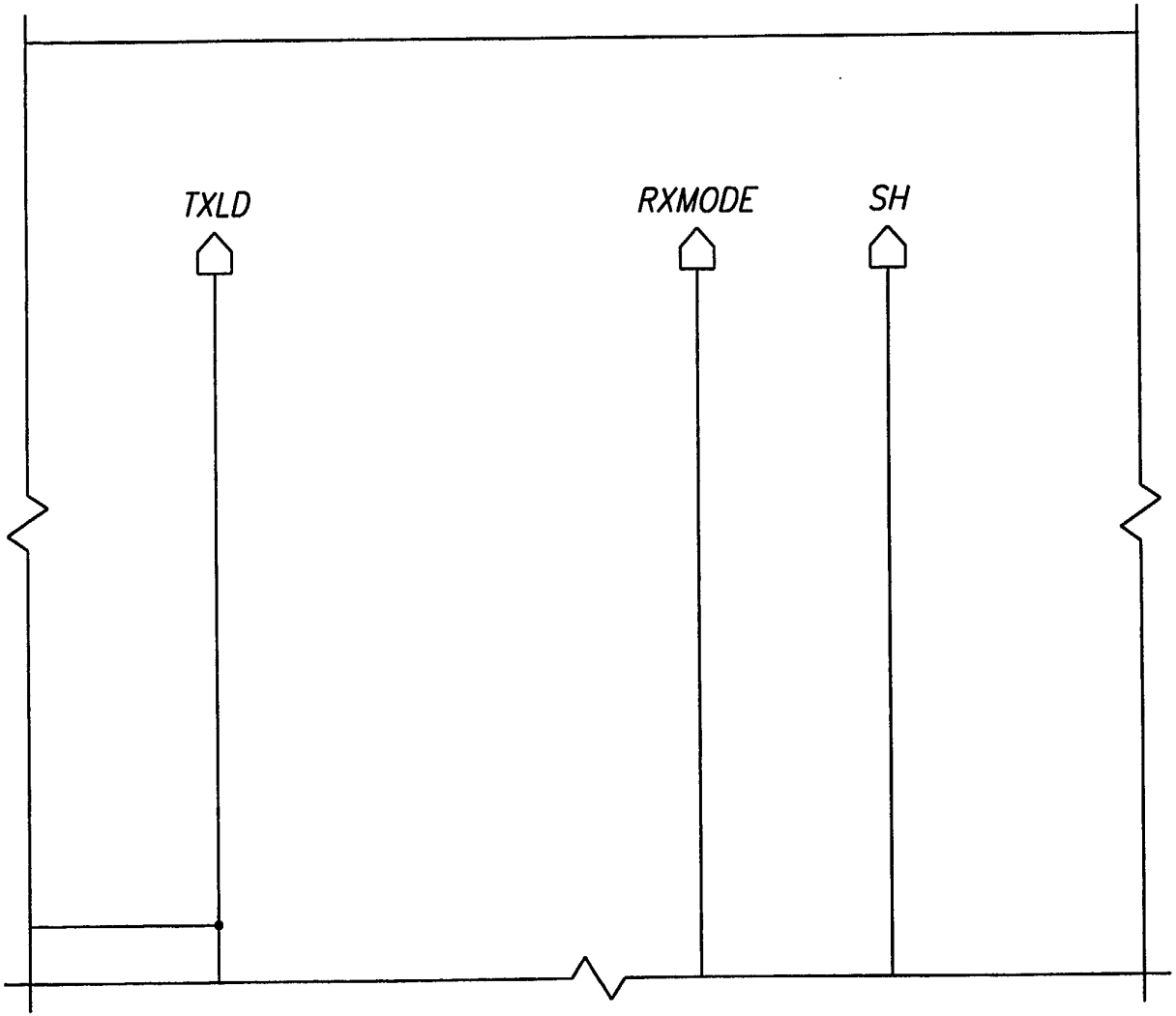
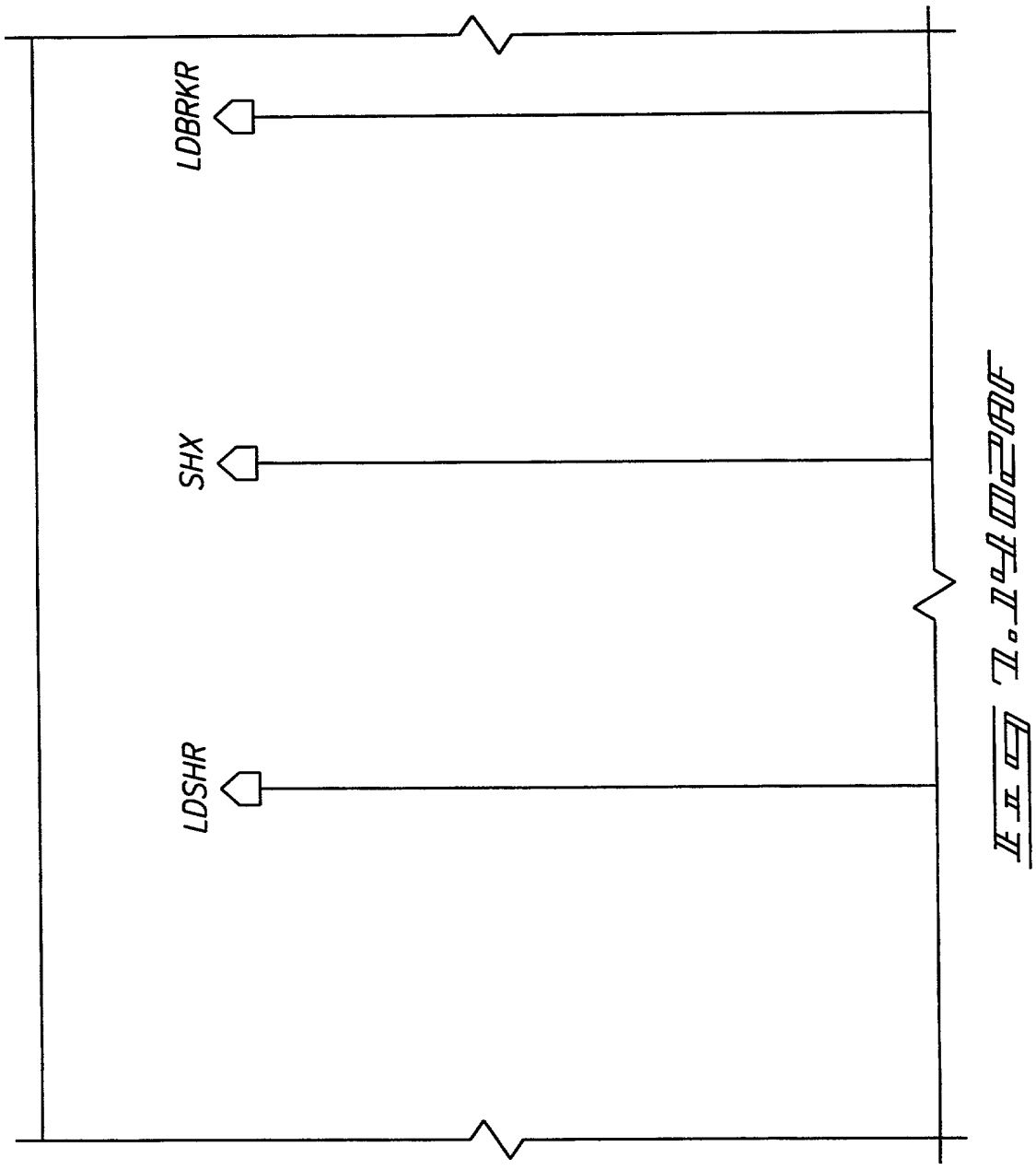


Fig 7.14402AE



PATENT-US-20020059704-D00004

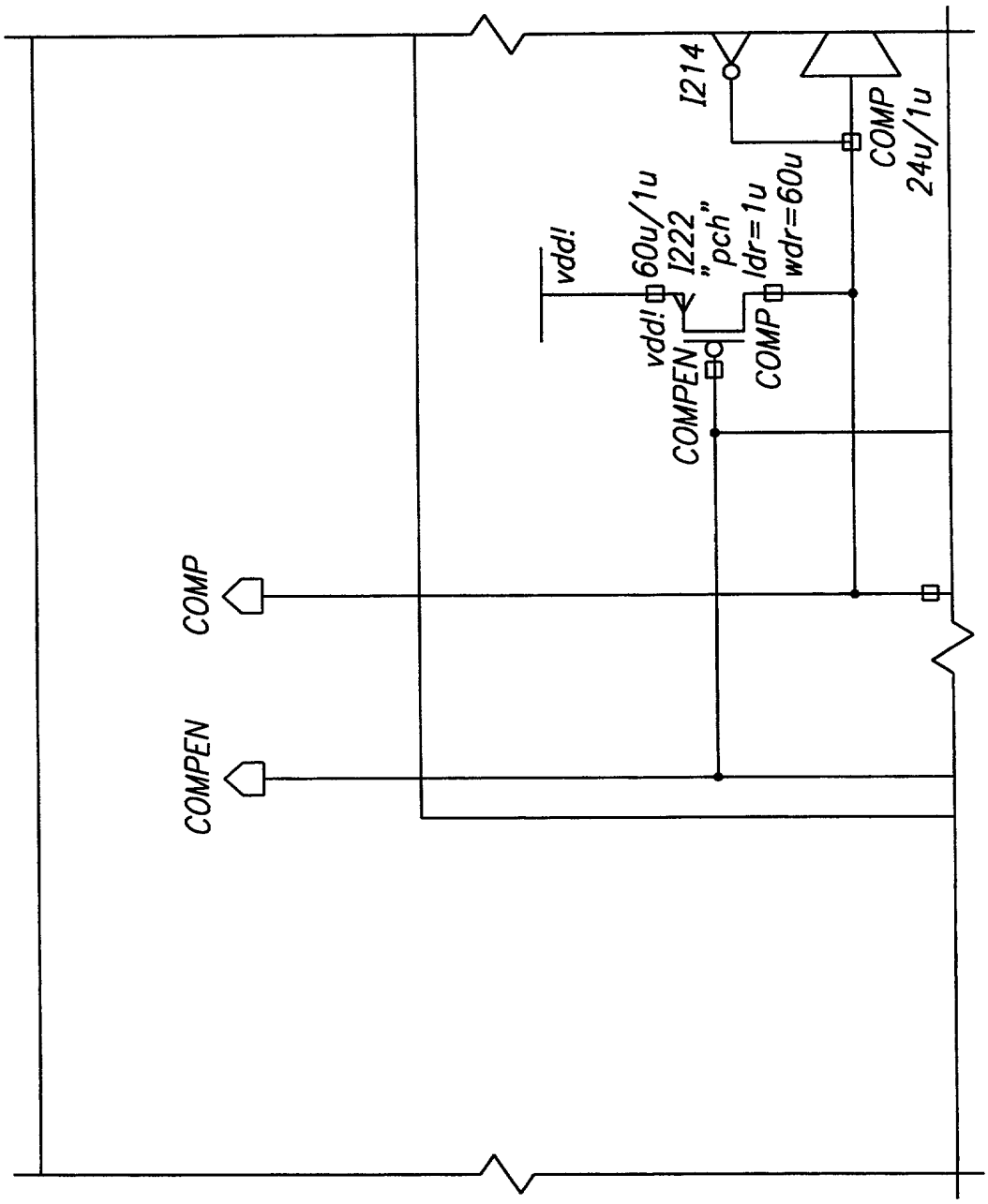

I214
COMP
24u/1u
vdd!
60u/1u
I222
"pch"
ldr=1u
wdr=60u
vdd!
COMPEN
COMP
COMP
COMPEN

FIG 11

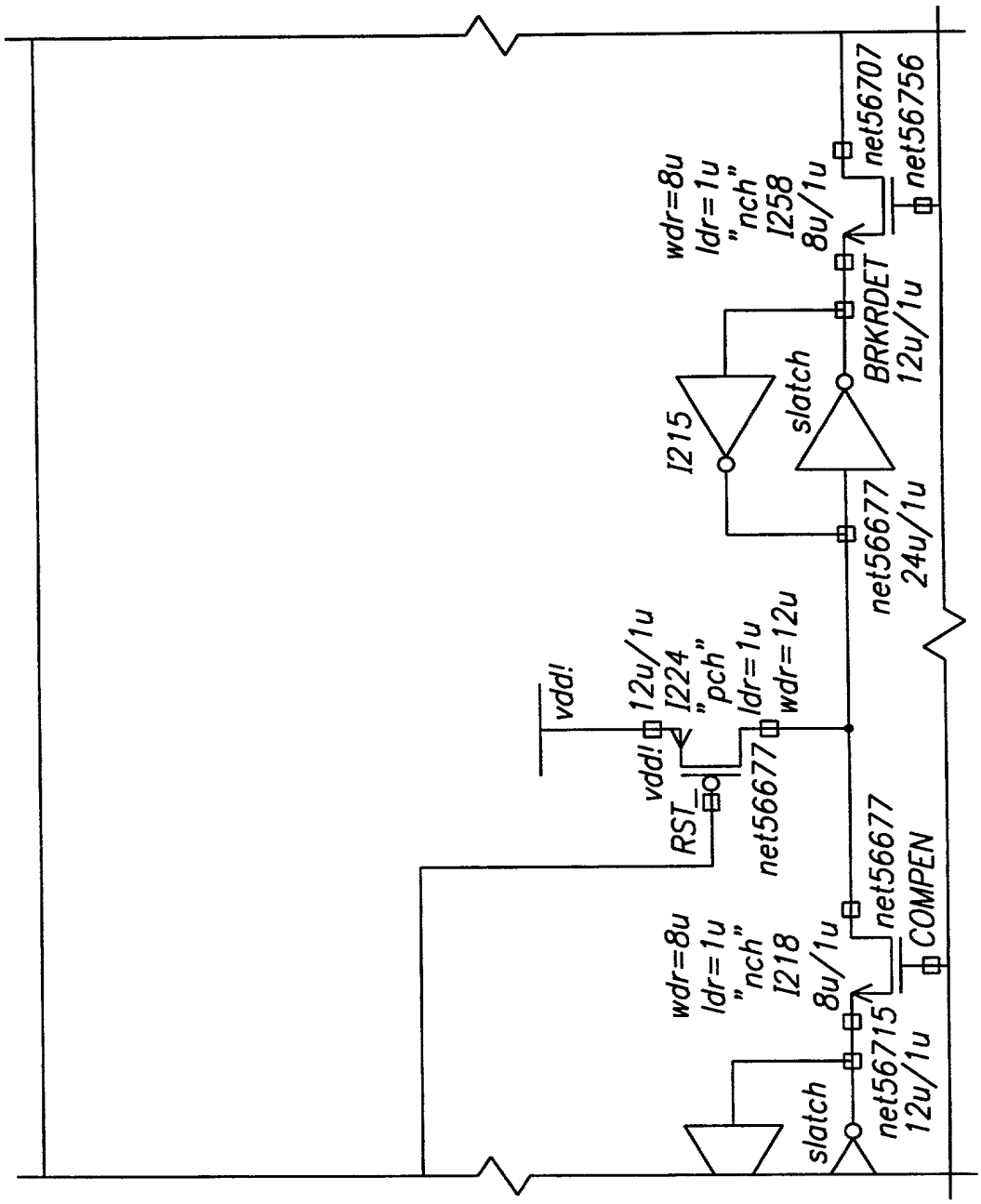
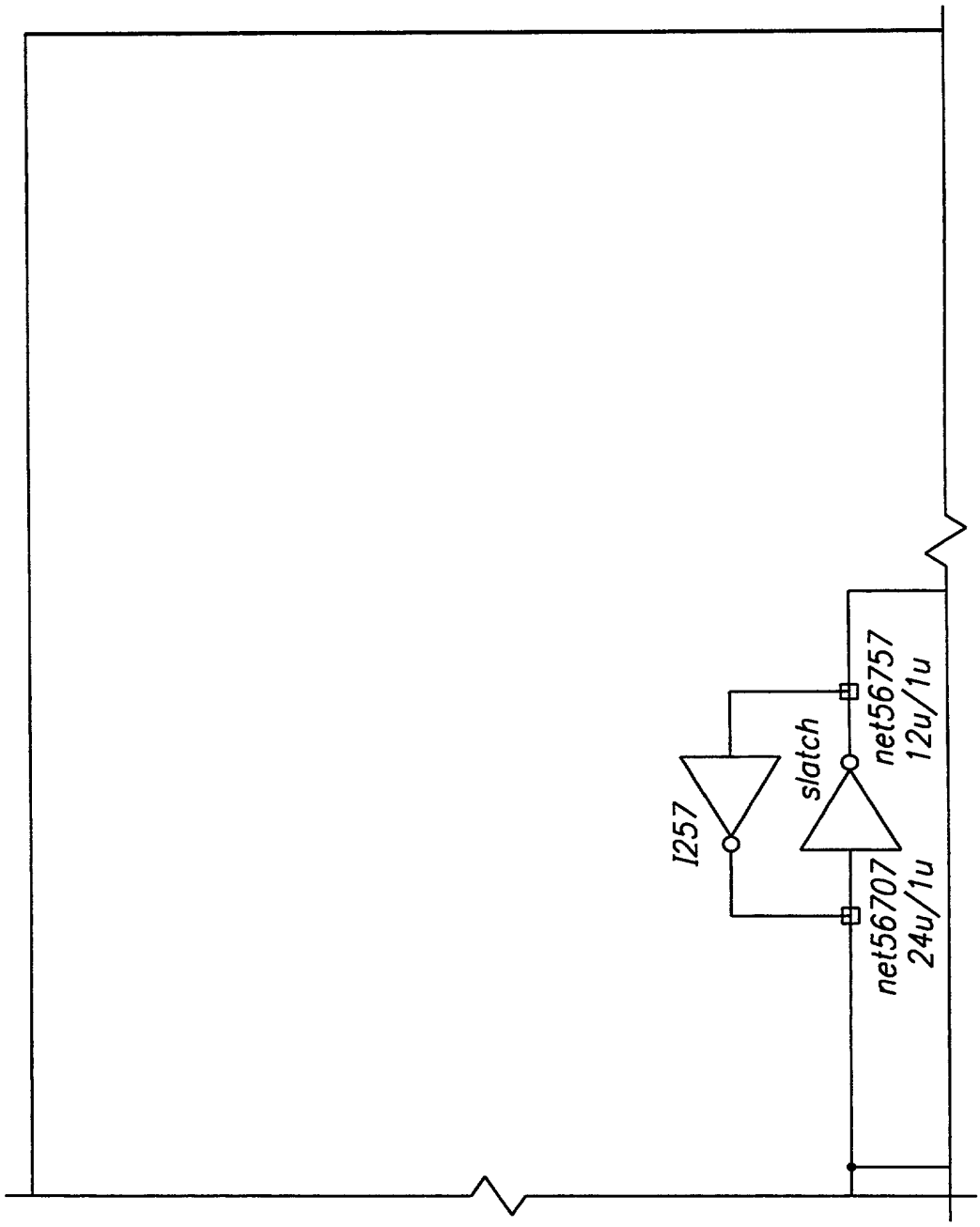
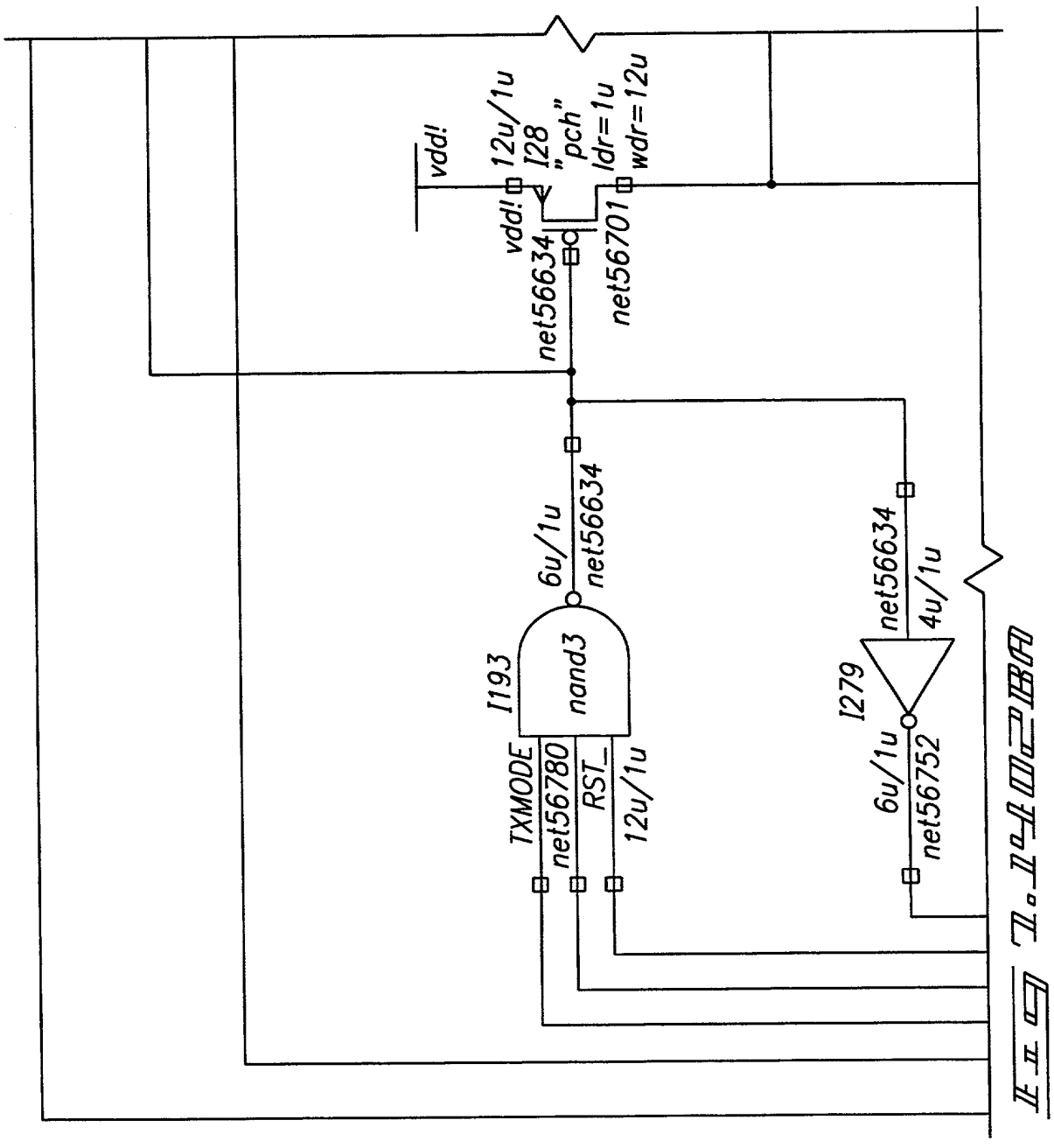

wdr=8u
ldr=1u
"nch"
I258
8u/1u
net56707
net56756
I215
slatch
BRKRDET
12u/1u
net56677
24u/1u
vdd!
12u/1u
I224
"pch"
ldr=1u
wdr=12u
vdd!
RST_
net56677
wdr=8u
ldr=1u
"nch"
I218
8u/1u
net56677
COMPEN
slatch
net56715
12u/1u

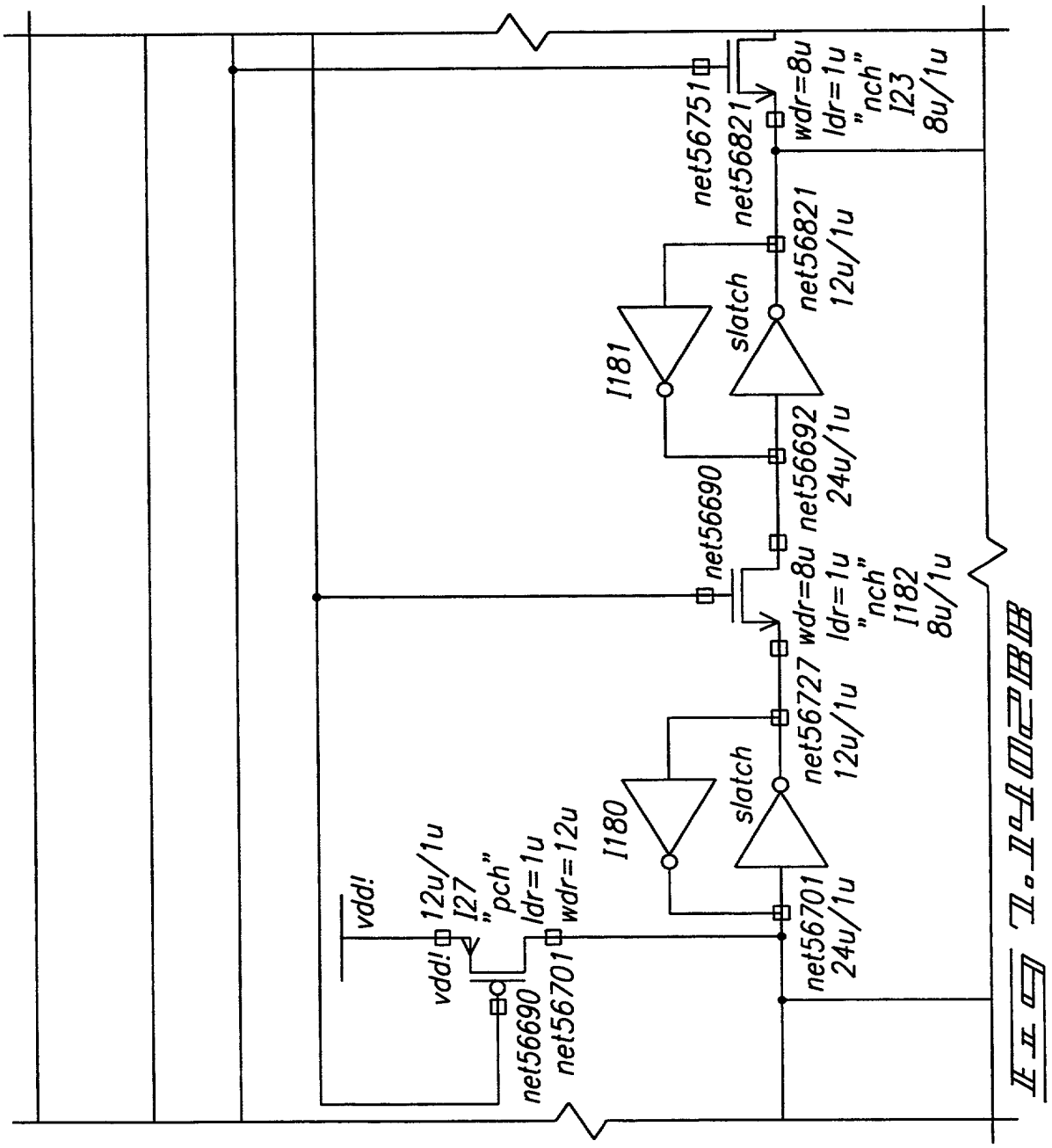
FIG. 11

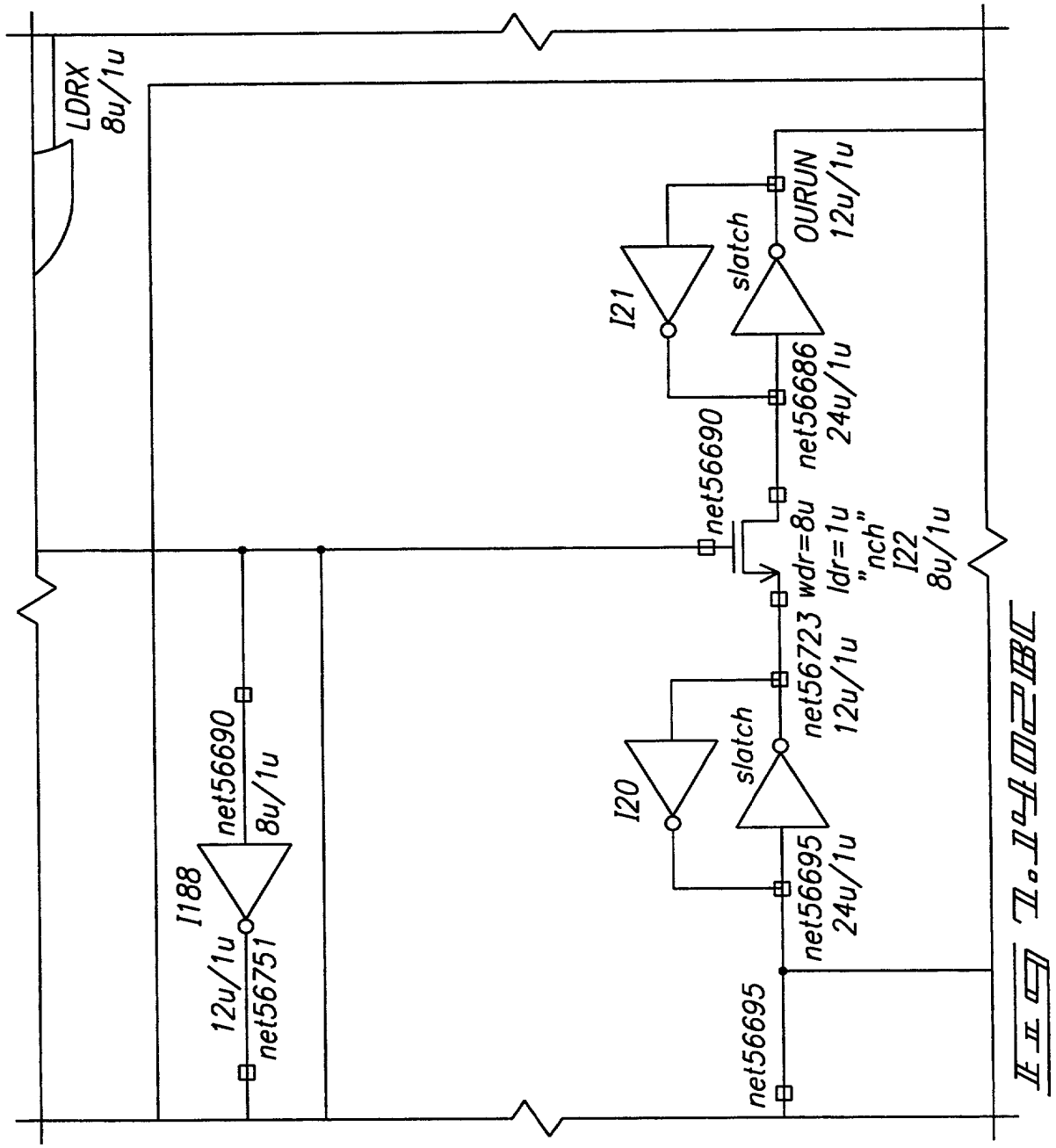


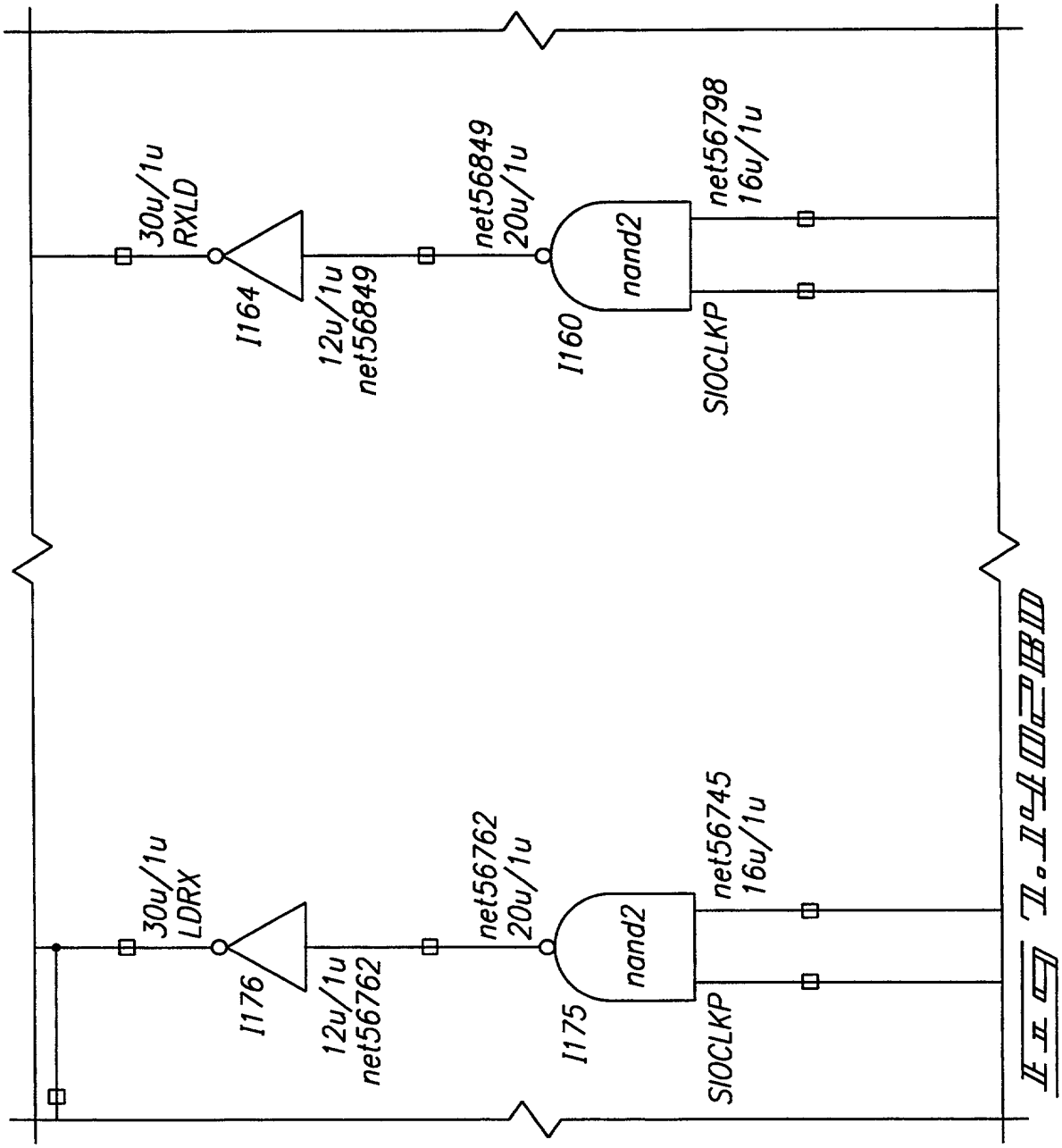
Фиг. 14

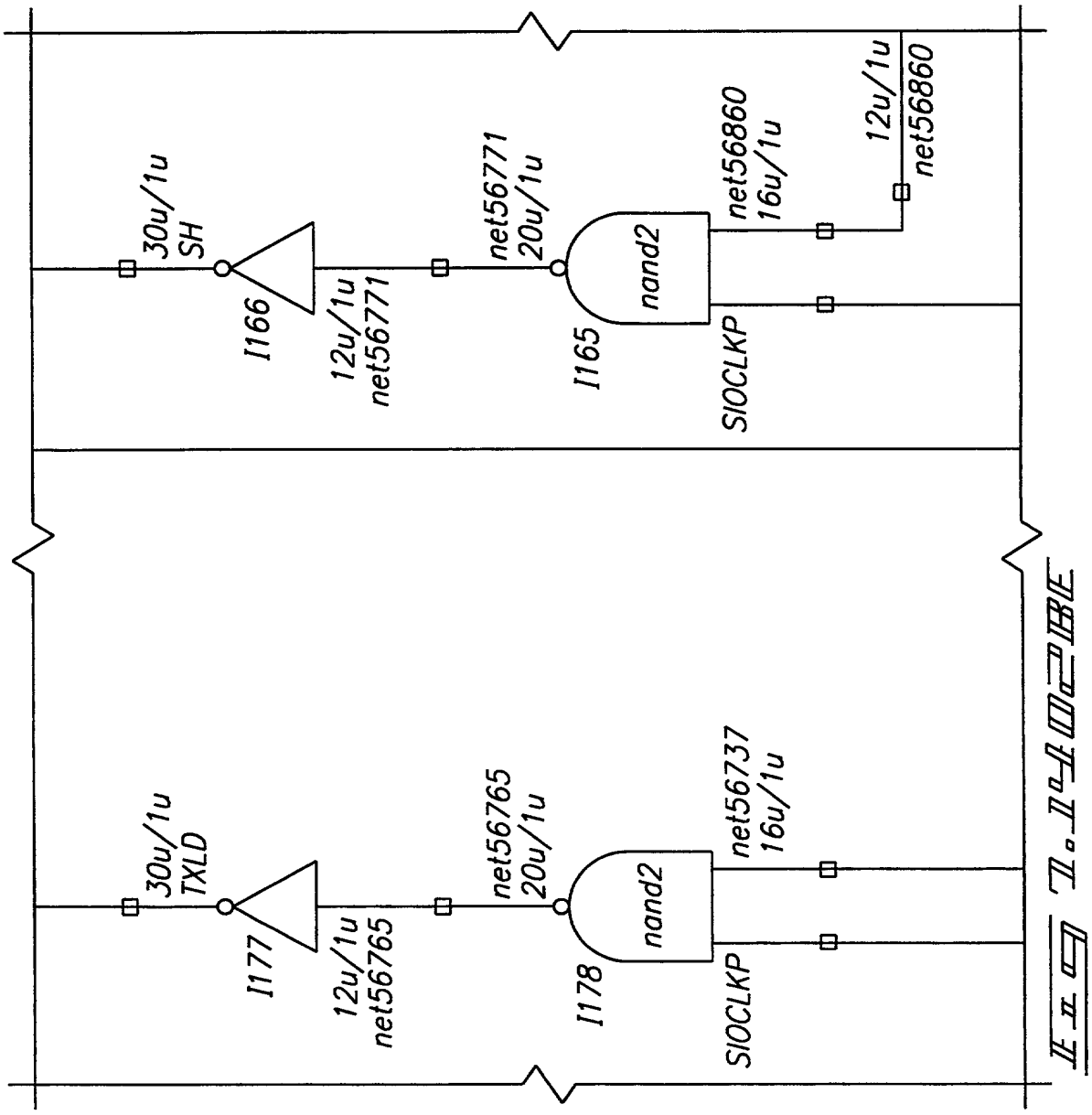
Патентно ведомство на САЩ


vdd!
12u/1u
I28
"pch"
ldr=1u
wdr=12u
vdd!
net56634
net56701
6u/1u
net56634
I193
nand3
TXMODE
net56780
RST_
12u/1u
net56634
4u/1u
I279
6u/1u
net56752


vdd!
I27
"pch"
ldr=1u
wdr=12u
12u/1u
net56690
net56701
I180
slatch
net56727
12u/1u
net56701
24u/1u
wdr=8u
ldr=1u
"nch"
I182
8u/1u
net56690
I181
slatch
net56692
24u/1u
net56821
12u/1u
net56751
net56821
wdr=8u
ldr=1u
"nch"
I23
8u/1u

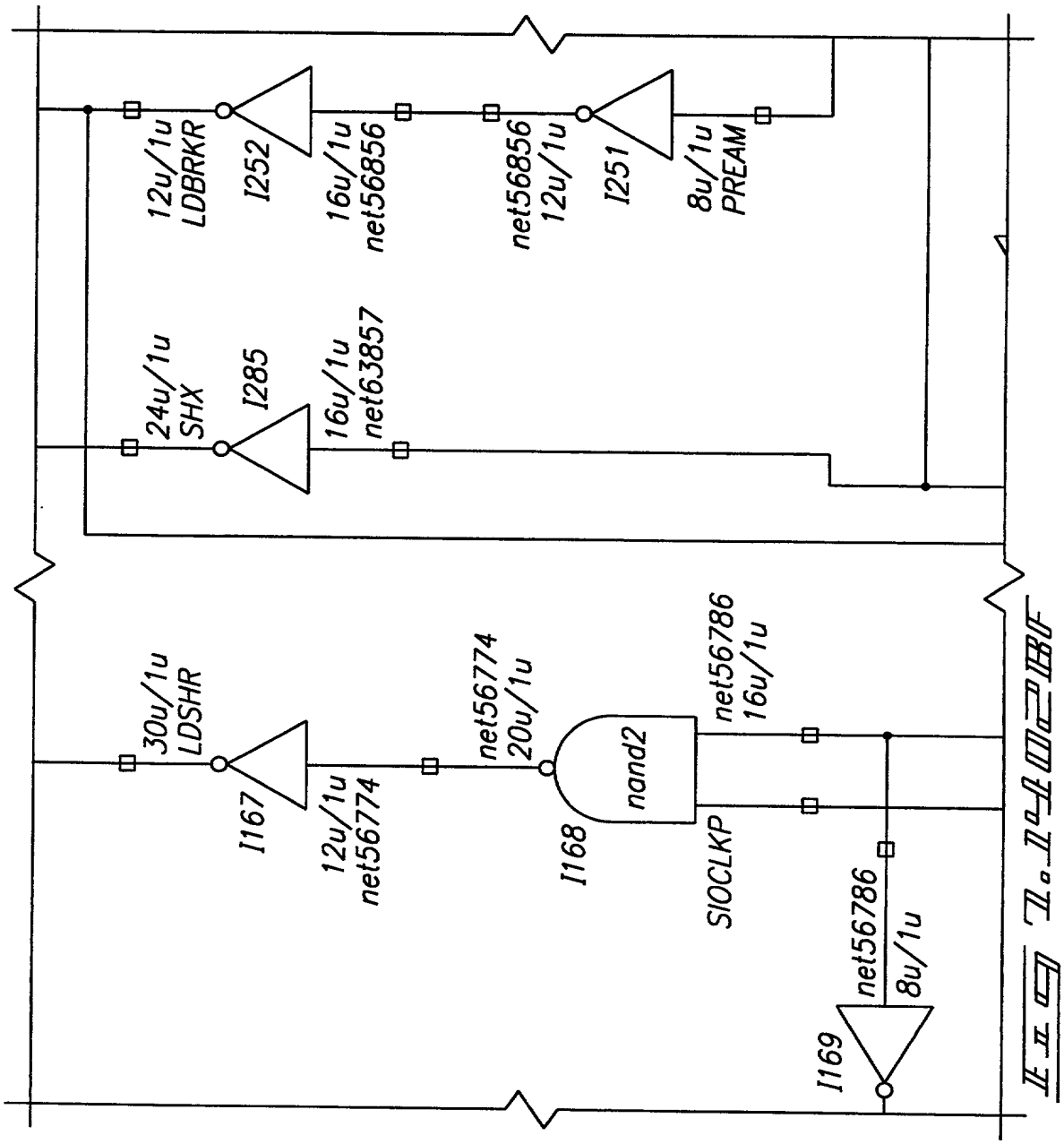

LDRX
8u/1u
I21
slatch
OURUN
12u/1u
net56686
24u/1u
net56690
wdr=8u
ldr=1u
"nch"
I22
8u/1u
net56723
12u/1u
I20
slatch
net56695
24u/1u
net56695
I188
12u/1u
net56751
net56690
8u/1u


30u/1u
RXLD
I164
12u/1u
net56849
net56849
20u/1u
nand2
I160
net56798
16u/1u
SIOCLKP
30u/1u
LDRX
I176
12u/1u
net56762
net56762
20u/1u
nand2
I175
net56745
16u/1u
SIOCLKP



Фиг. 11

Copyright Paragraph


12u/1u
LDBRKR
I252
16u/1u
net56856
net56856
12u/1u
I251
8u/1u
PREAM
24u/1u
SHX
I285
16u/1u
net63857
30u/1u
LDSHR
I167
12u/1u
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net56786
8u/1u
I169

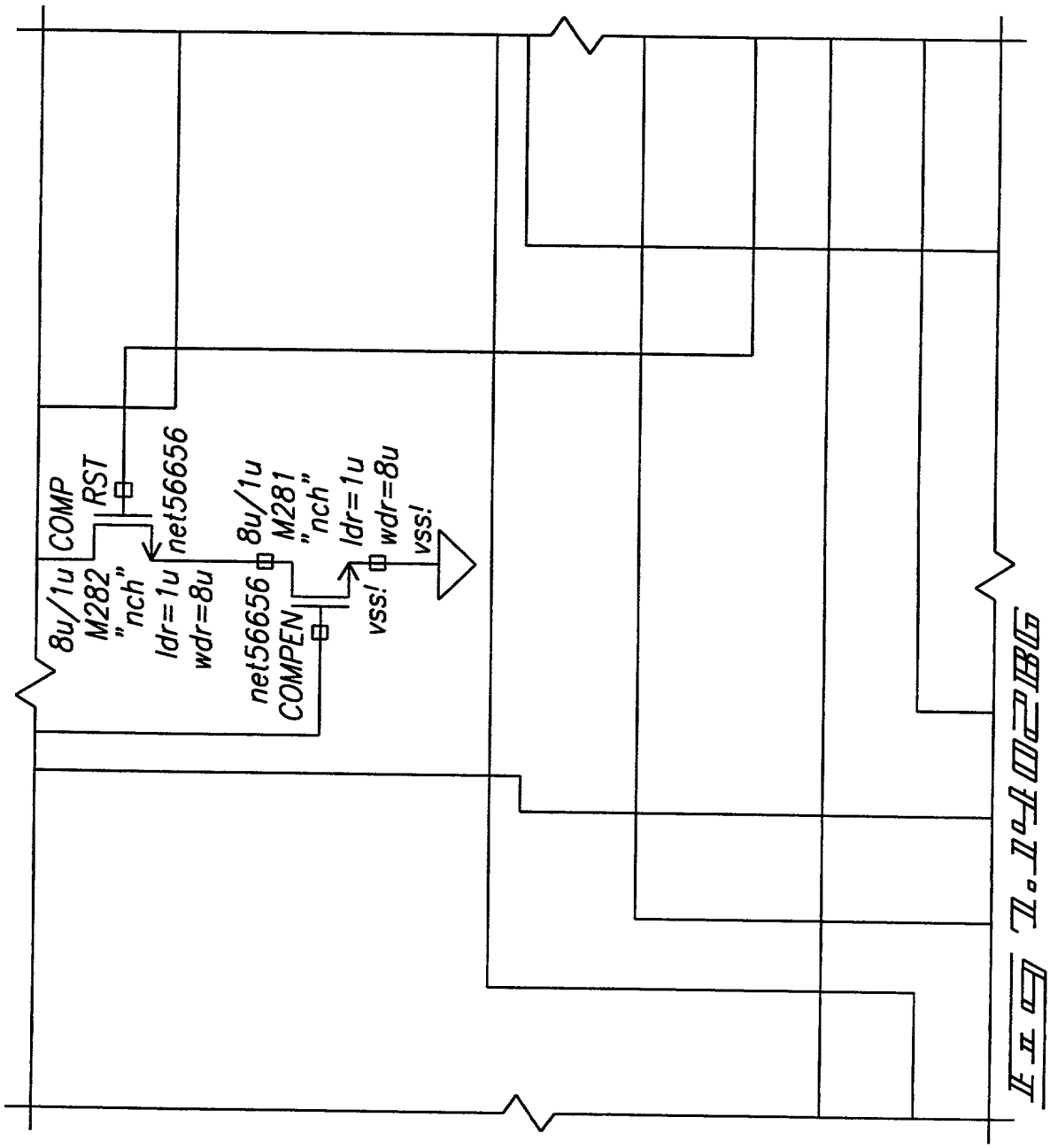
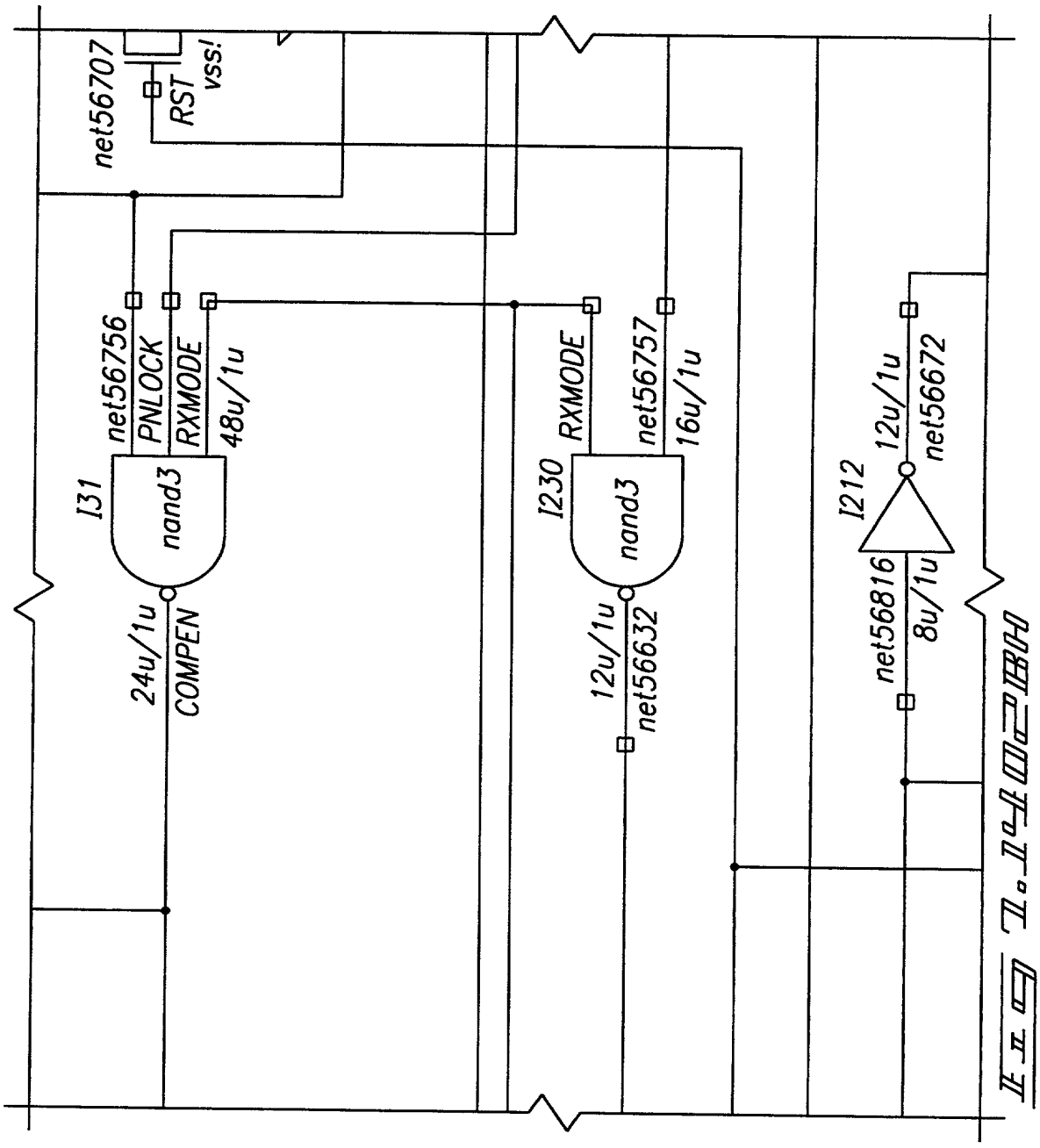
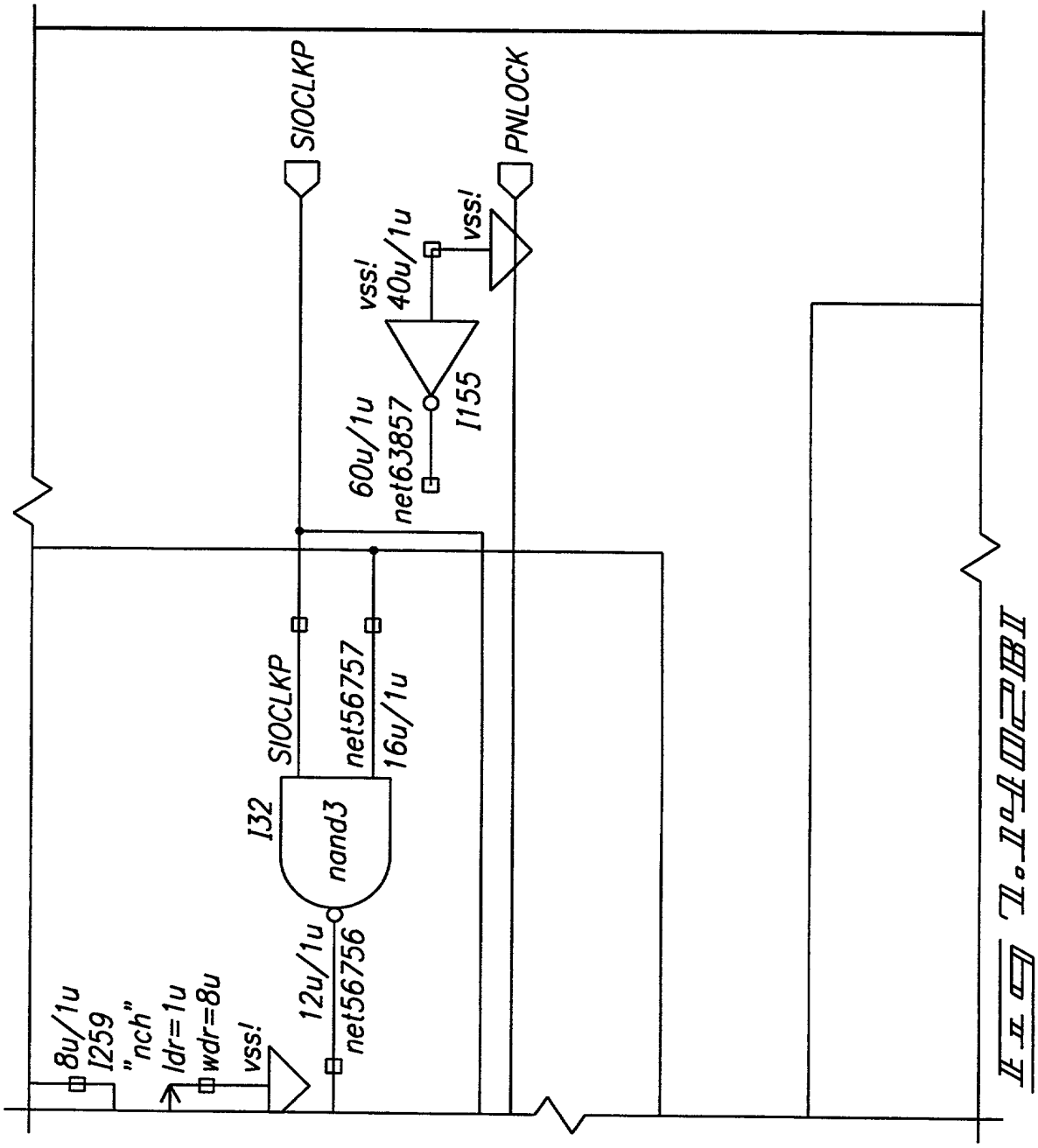


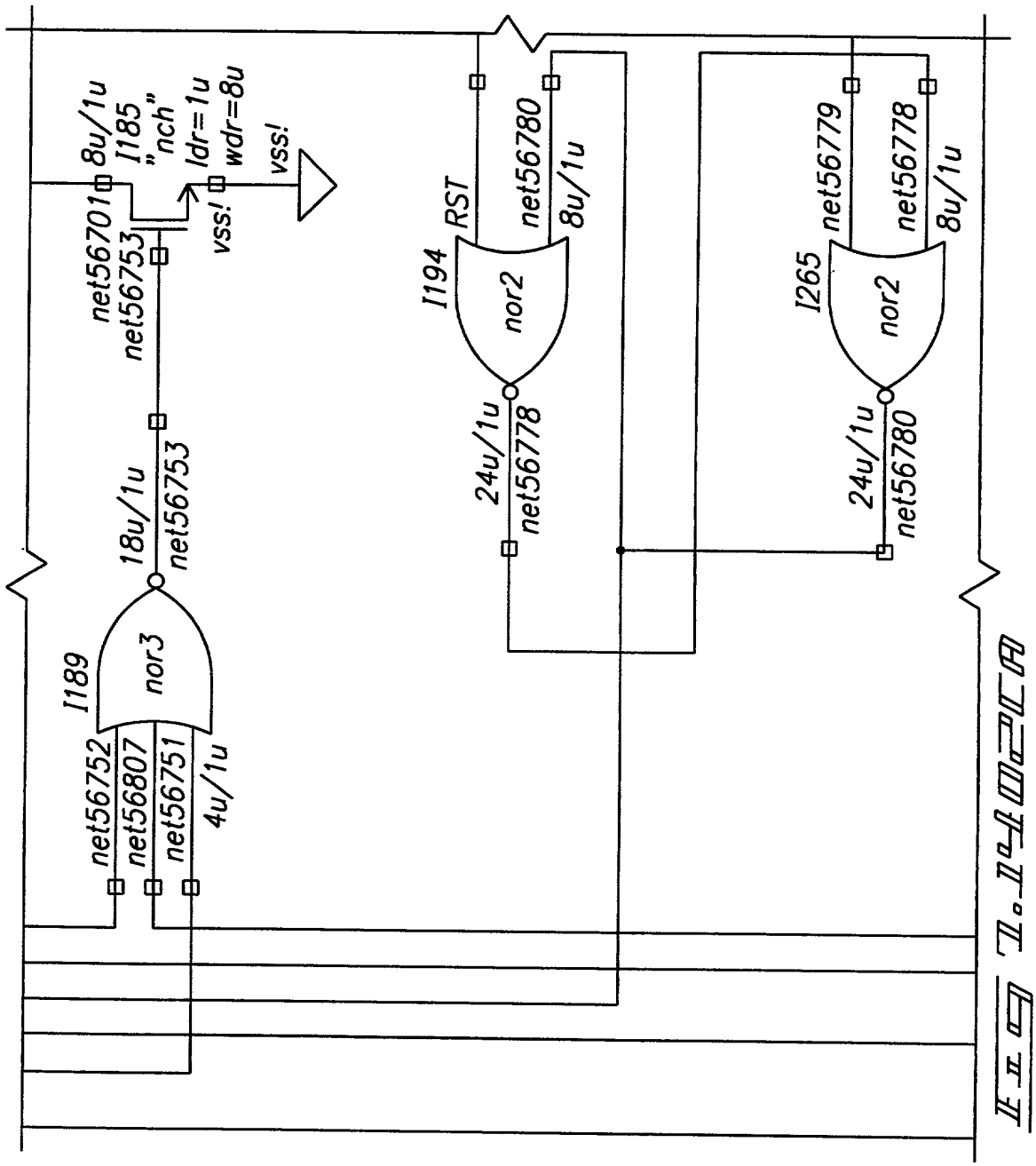
Fig 6

US 9,922,696 B1 Mar. 20, 2018

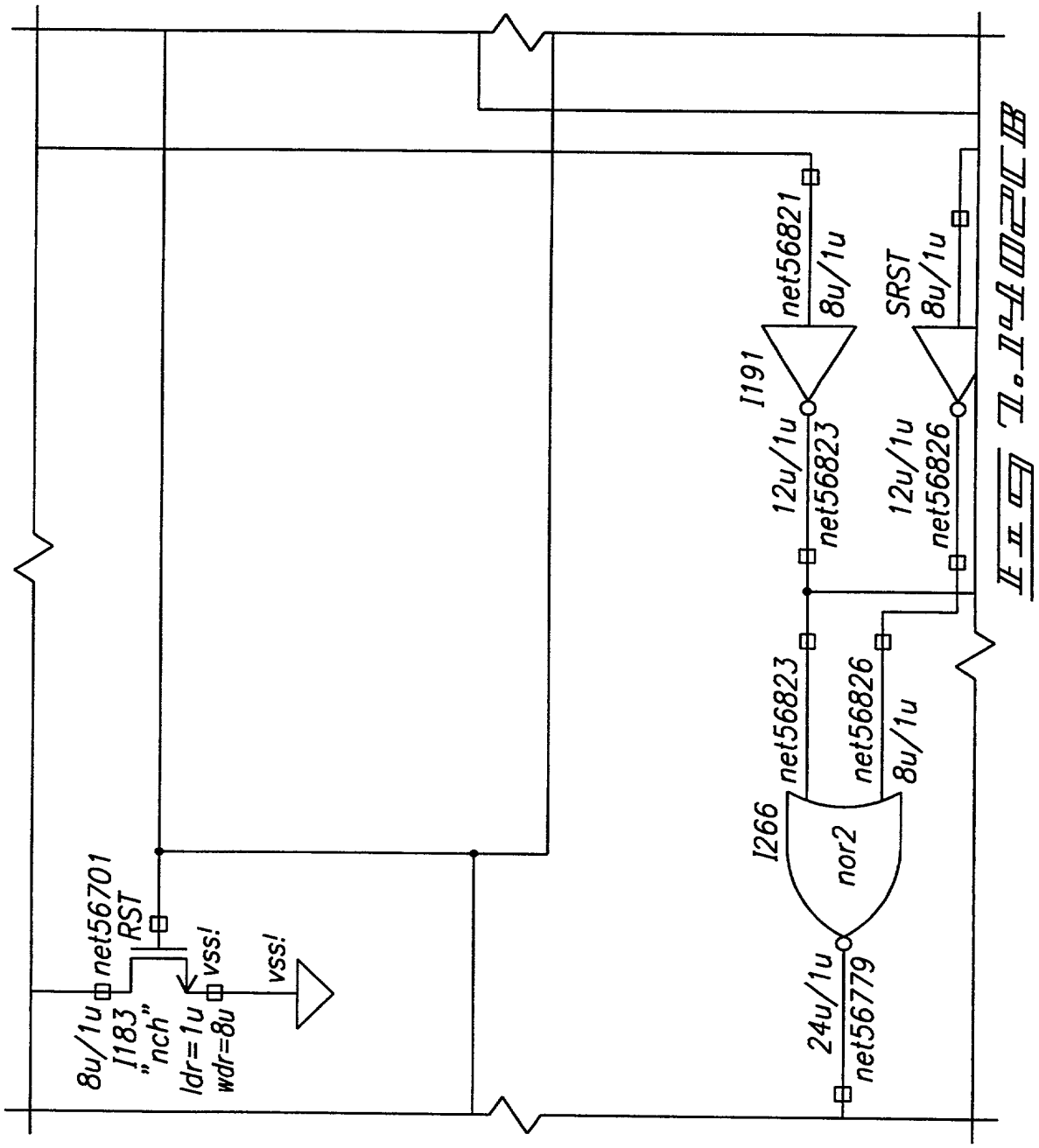

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RST
vss!
net56756
PNLOCK
RXMODE
48u/1u
I31
nand3
24u/1u
COMPEN
I230
RXMODE
net56757
16u/1u
nand3
12u/1u
net56632
I212
12u/1u
net56672
net56816
8u/1u

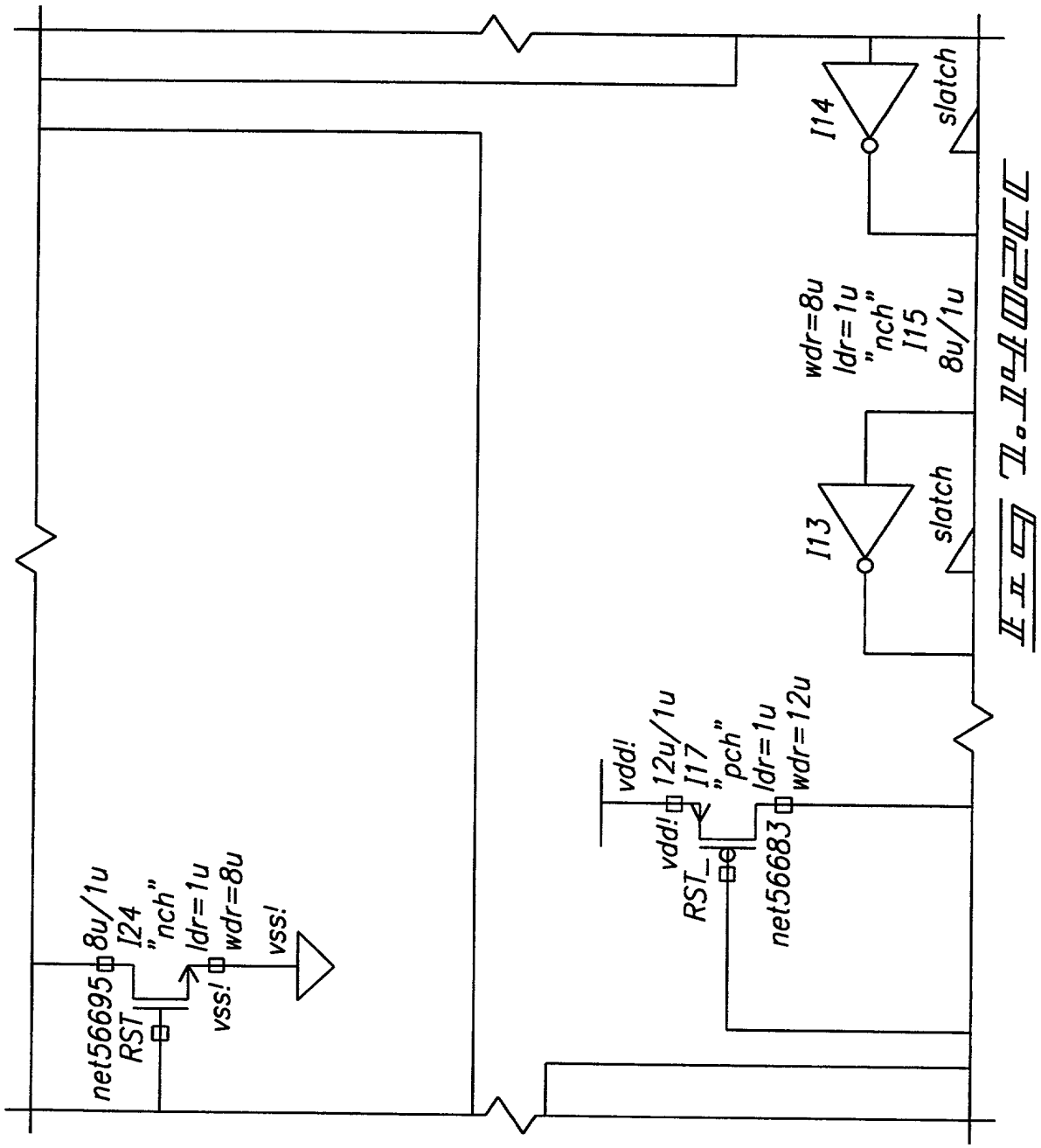

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PNLOCK
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vss!
60u/1u
net63857
I155
SIOCLKP
net56757
16u/1u
I32
nand3
12u/1u
net56756
8u/1u
I259
"nch"
ldr=1u
wdr=8u
vss!

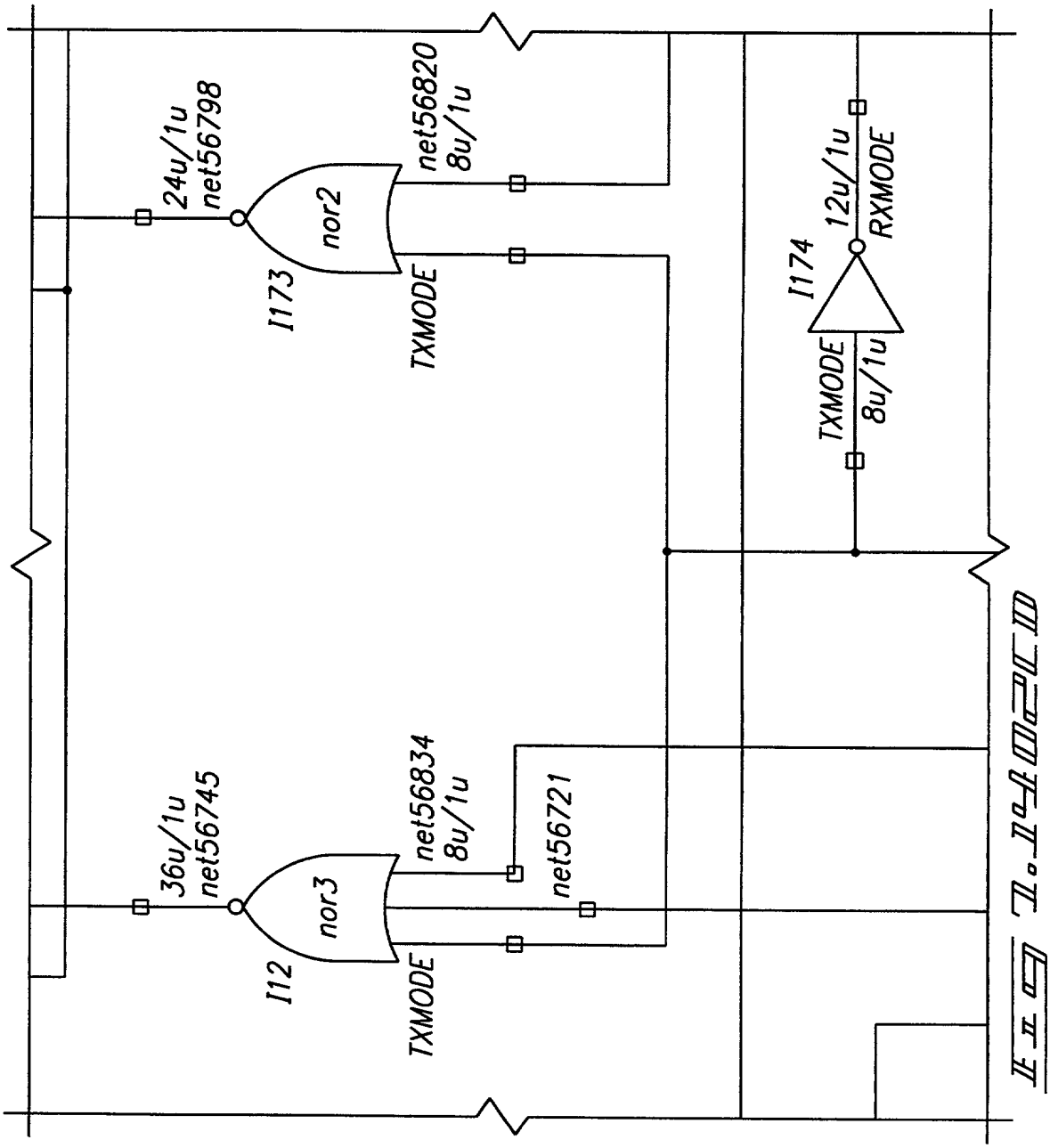
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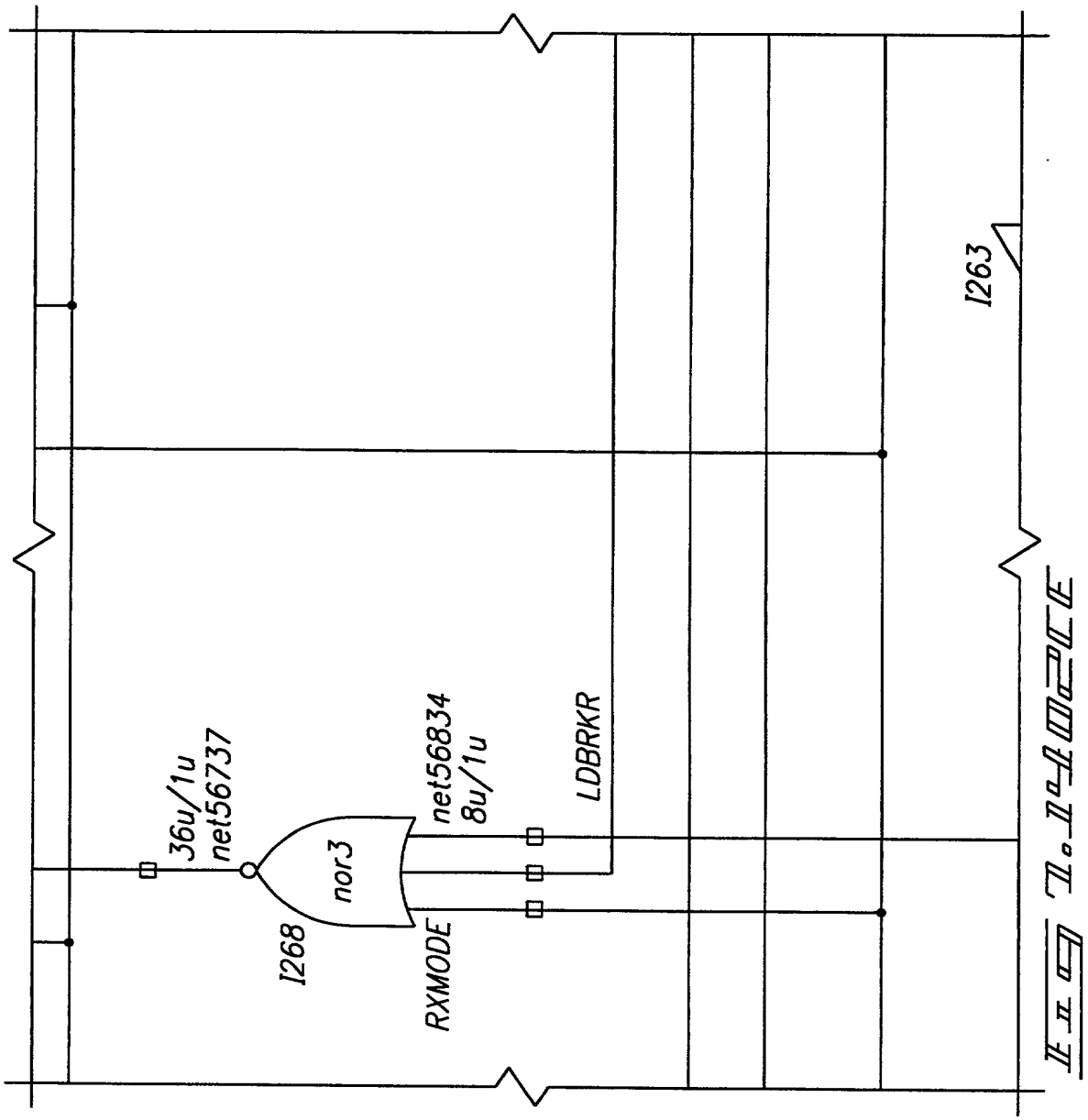

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wdr=8u
vss!
net56753
vss!
net56753
18u/1u
net56753
I189
nor3
net56752
net56807
net56751
4u/1u
I194
RST
net56780
8u/1u
nor2
24u/1u
net56778
I265
net56779
net56778
8u/1u
nor2
24u/1u
net56780

Фиг. 1


net56701
RST
8u/1u
I183
"nch"
ldr=1u
wdr=8u
vss!
vss!
I191
net56821
8u/1u
12u/1u
net56823
SRST
8u/1u
12u/1u
net56826
I266
net56823
net56826
8u/1u
nor2
24u/1u
net56779


net56695
RST
8u/1u
I24
"nch"
ldr=1u
wdr=8u
vss!
vss!
vdd!
RST_
12u/1u
I17
"pch"
ldr=1u
wdr=12u
net56683
vdd!
I13
slatch
wdr=8u
ldr=1u
"nch"
I15
8u/1u
I14
slatch


I12
nor3
36u/1u
net56745
net56834
8u/1u
net56721
TXMODE
I173
nor2
24u/1u
net56798
net56820
8u/1u
TXMODE
I174
12u/1u
RXMODE
TXMODE
8u/1u


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nor3
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8u/1u
LDBRKR
I268
RXMODE

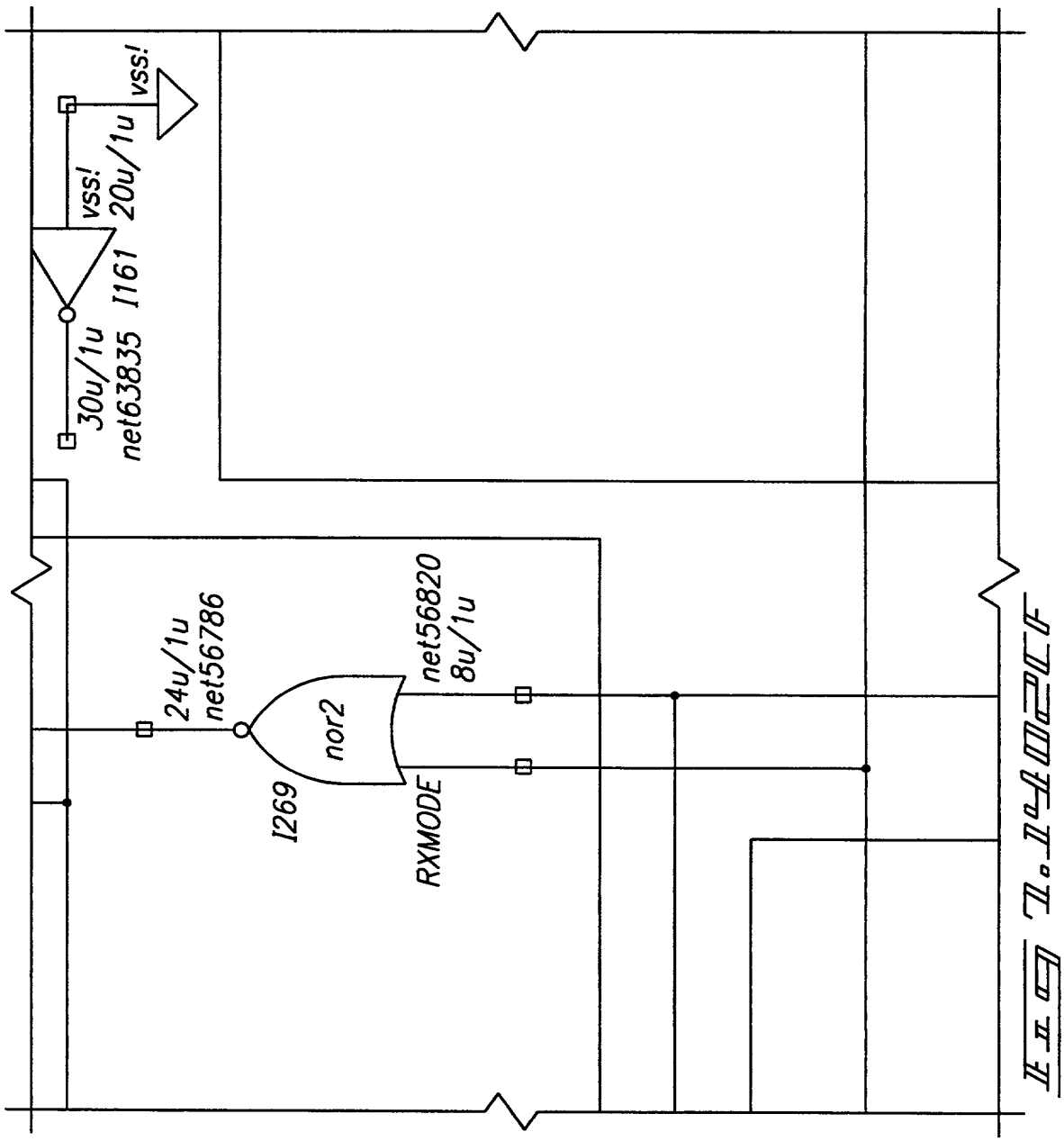
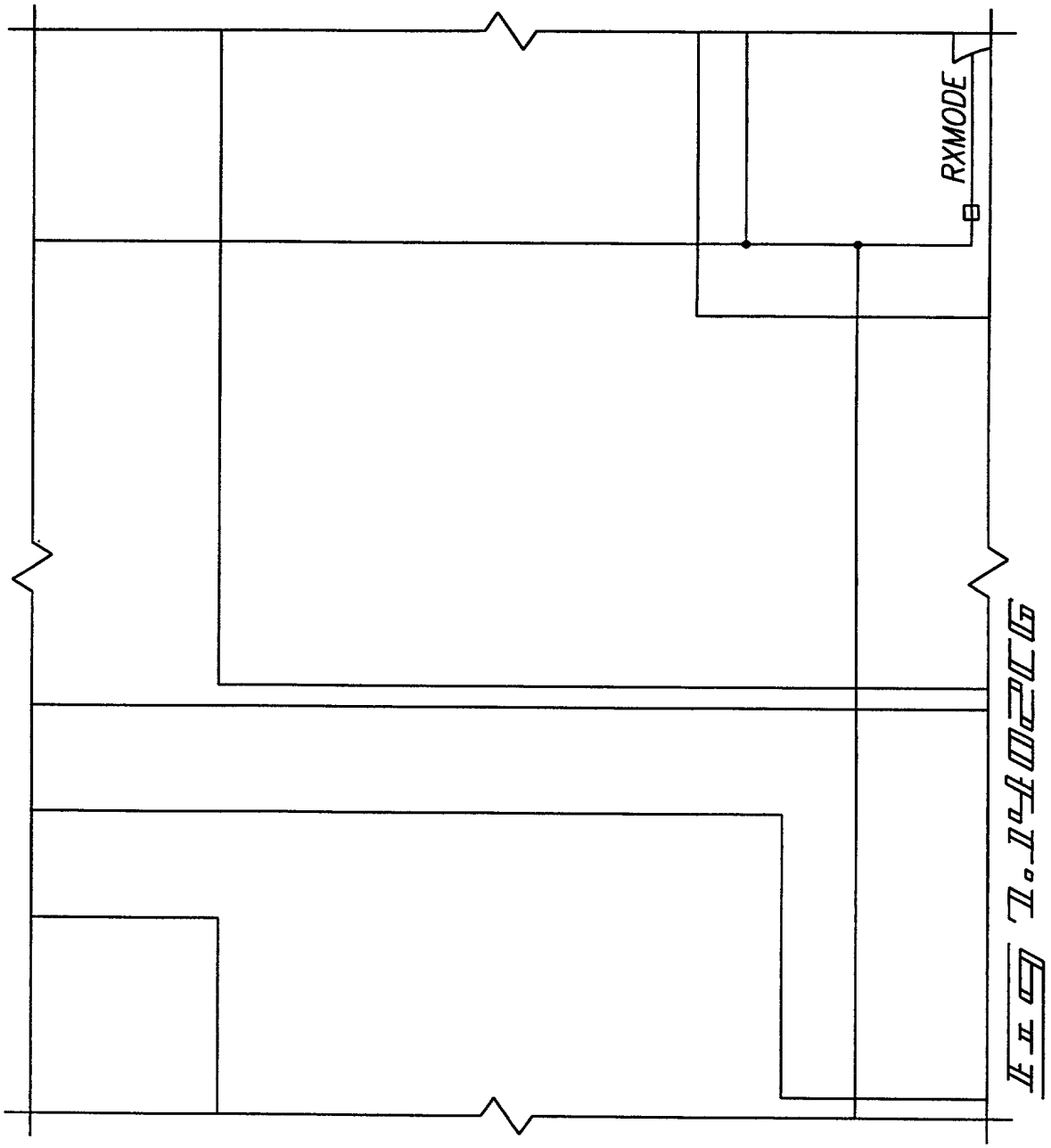
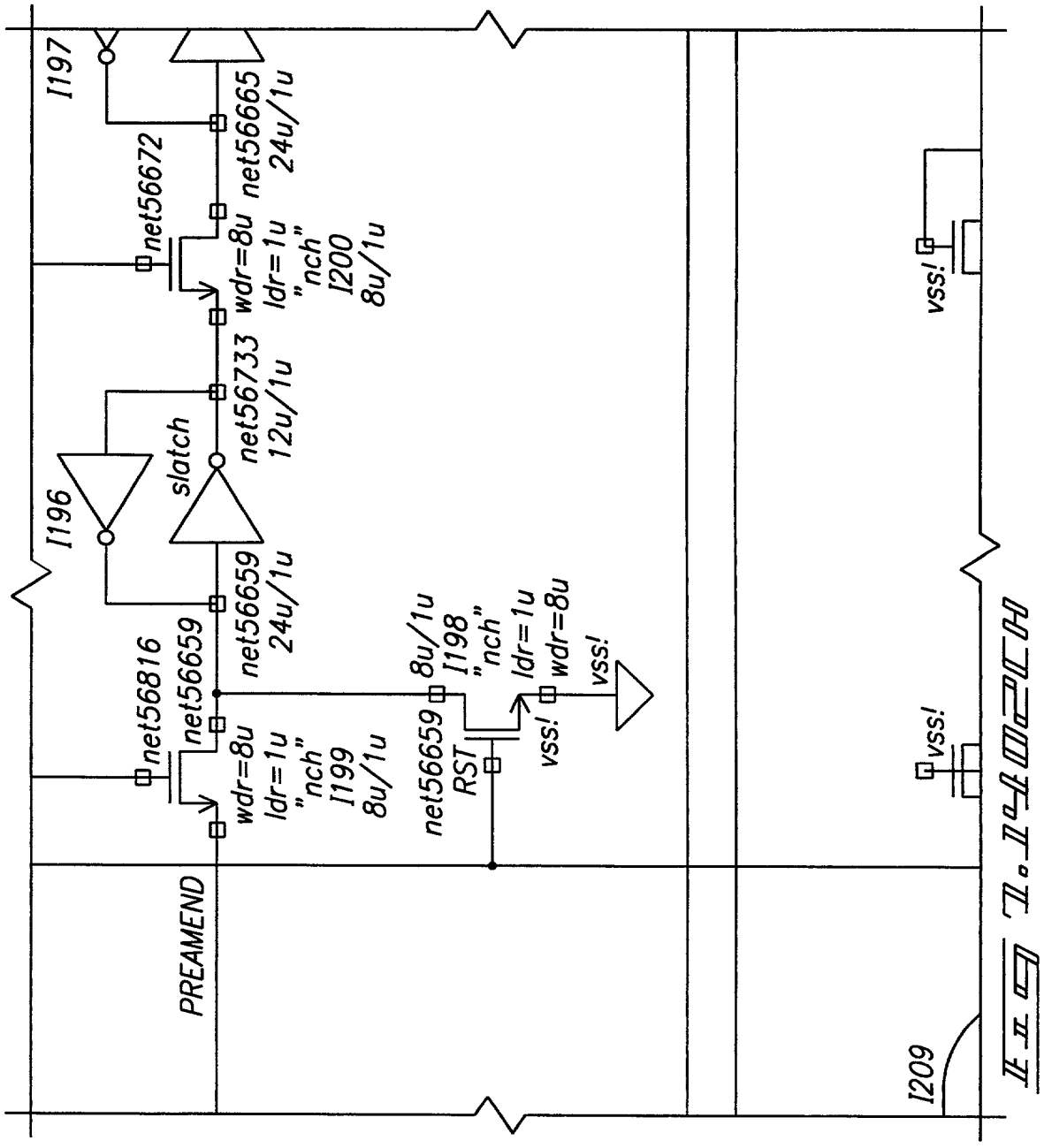
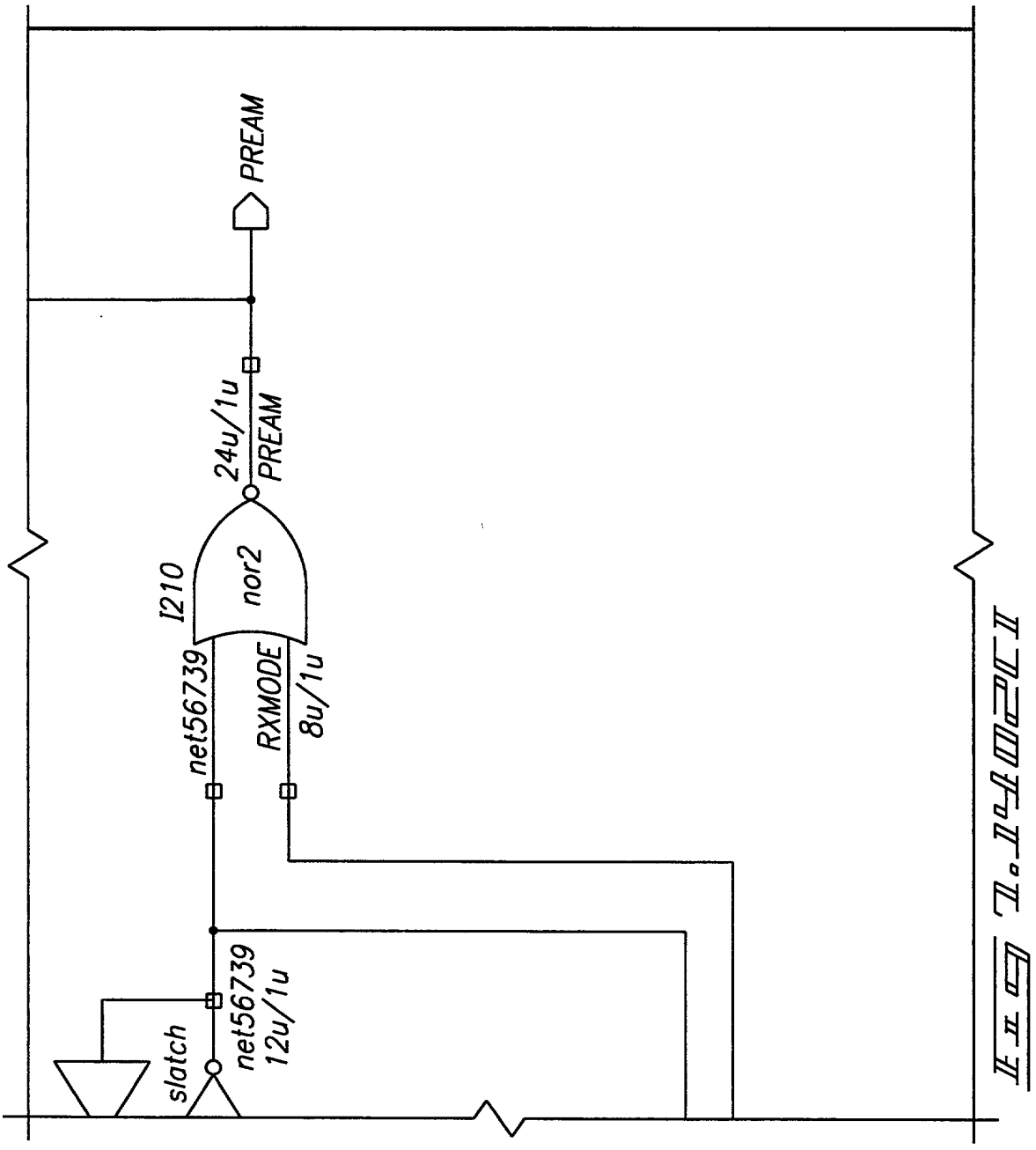

vss!
20u/1u
vss!
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30u/1u
net63835
24u/1u
net56786
nor2
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8u/1u
I269
RXMODE

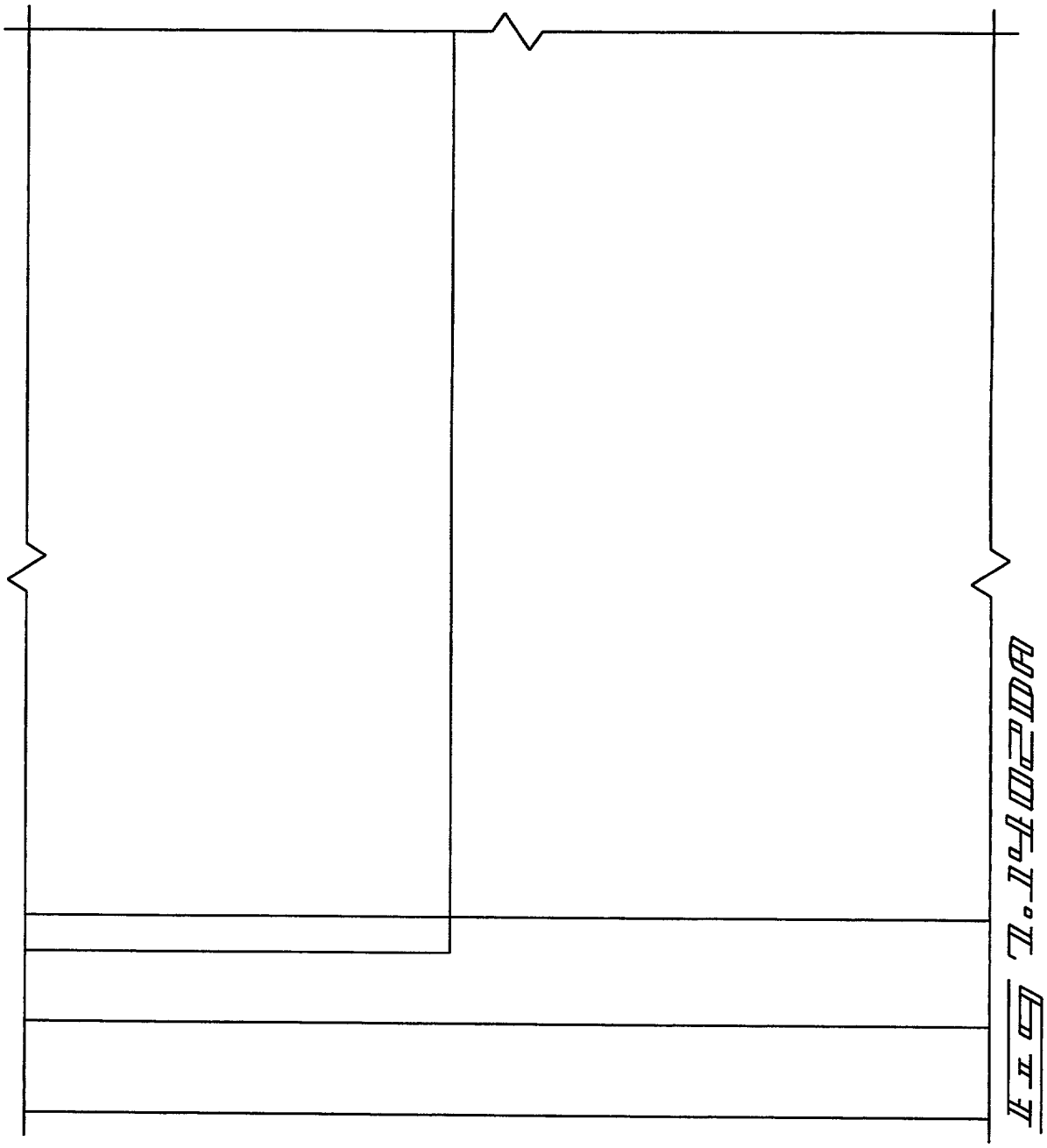
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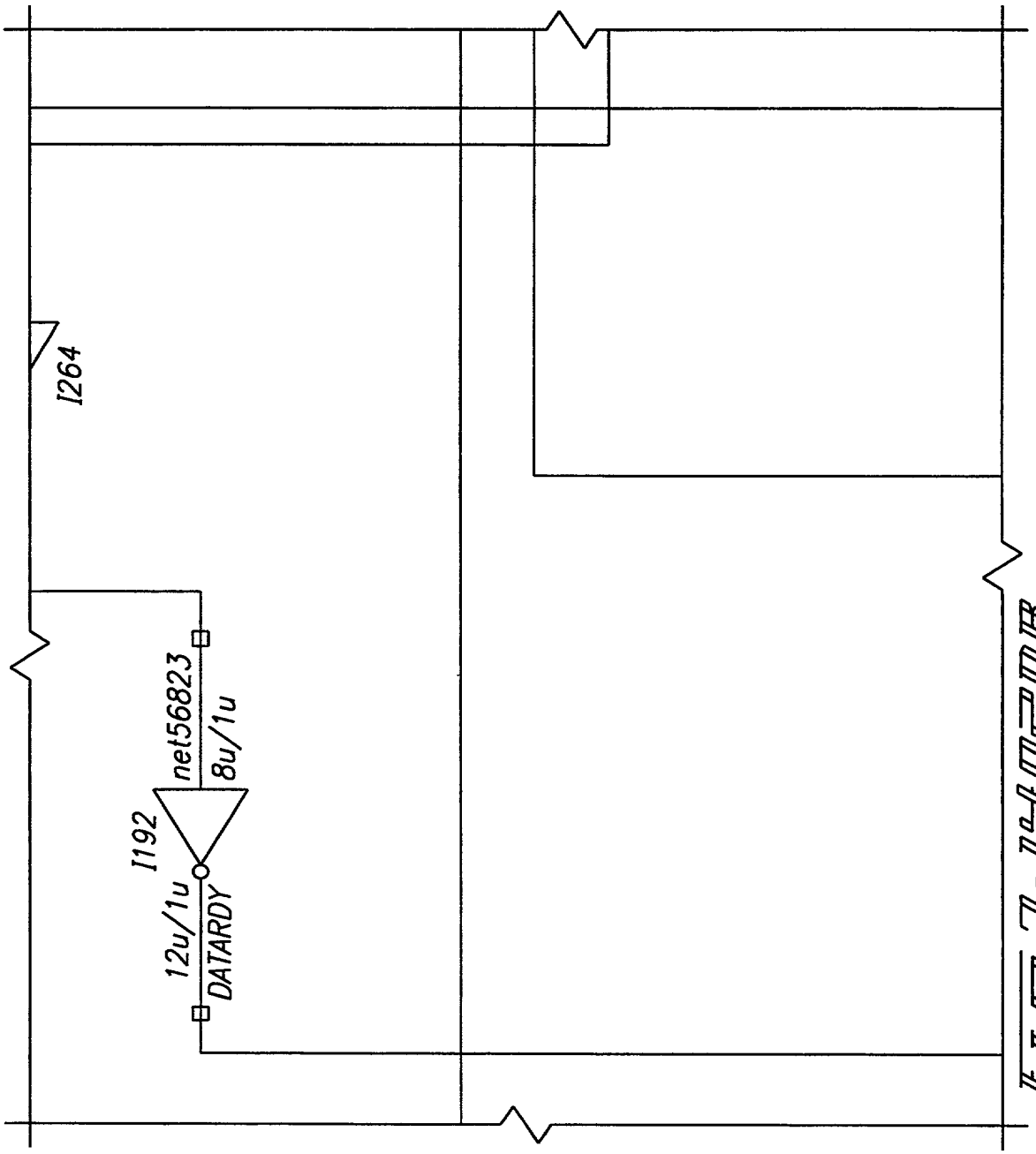
Patent Application Publication Oct. 9, 2003 Sheet 1 of 14 US 2003/0189509 A1


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ldr=1u
"nch"
I200
8u/1u
net56733
12u/1u
slatch
I196
net56659
24u/1u
net56816
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ldr=1u
"nch"
I199
8u/1u
PREAMEND
8u/1u
I198
"nch"
ldr=1u
wdr=8u
vss!
net56659
RST
vss!
vss!
vss!
I209


PREAM
24u/1u
PREAM
I210
nor2
net56739
RXMODE
8u/1u
net56739
12u/1u
slatch



1014/3273 - 05/24/05


I264
net56823
8u/1u
I192
12u/1u
DATARDY

EP1450226A2

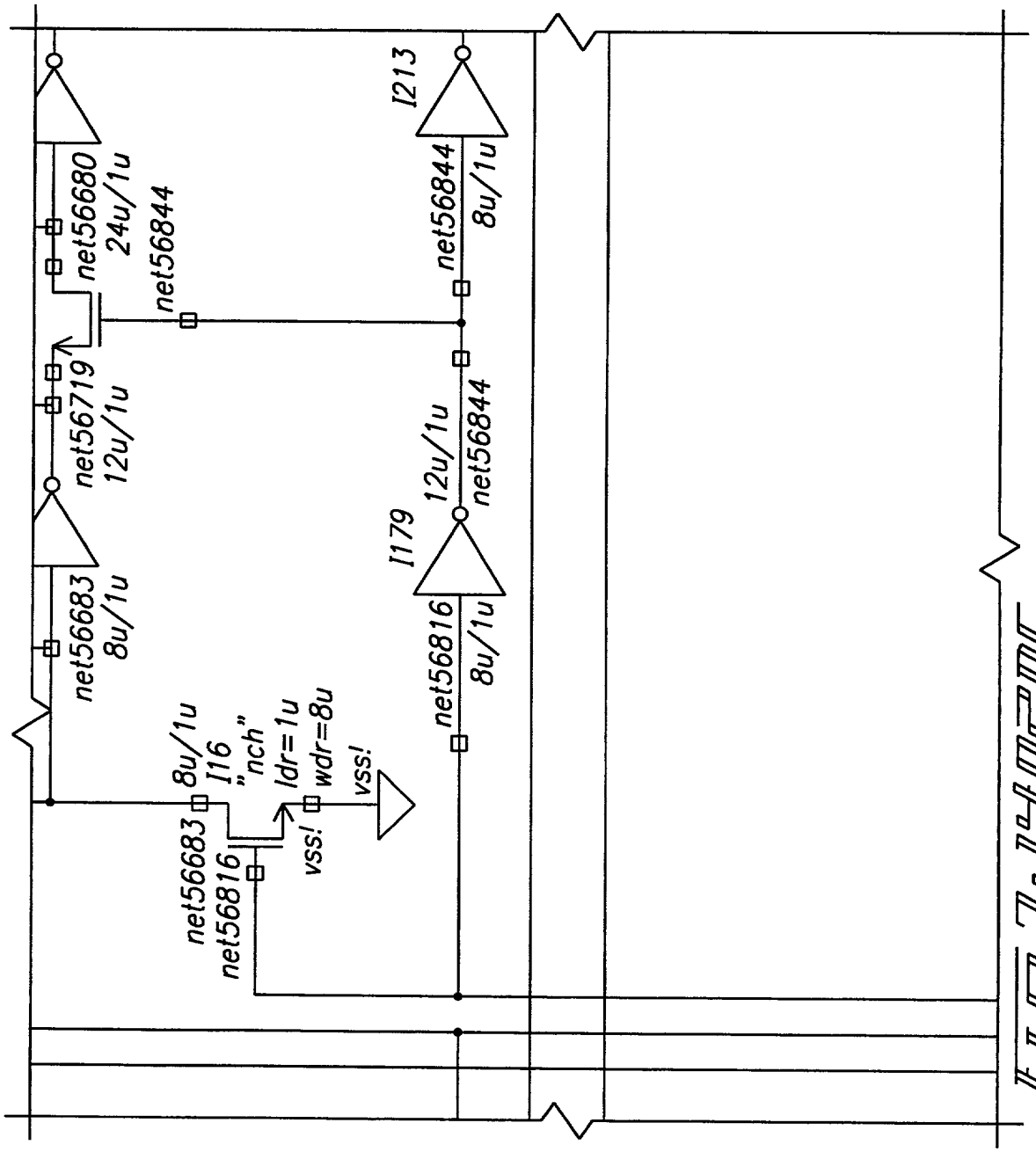
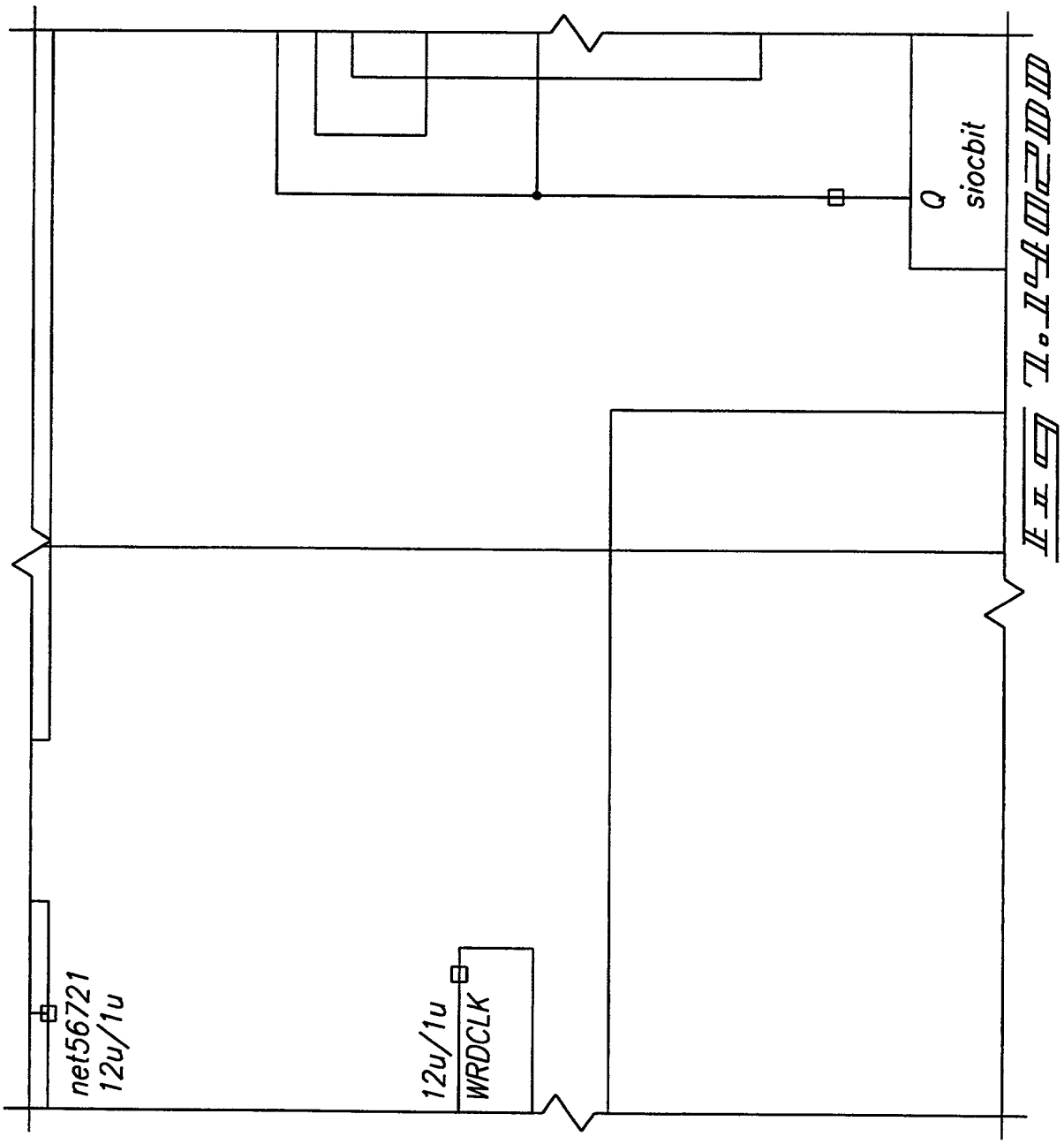
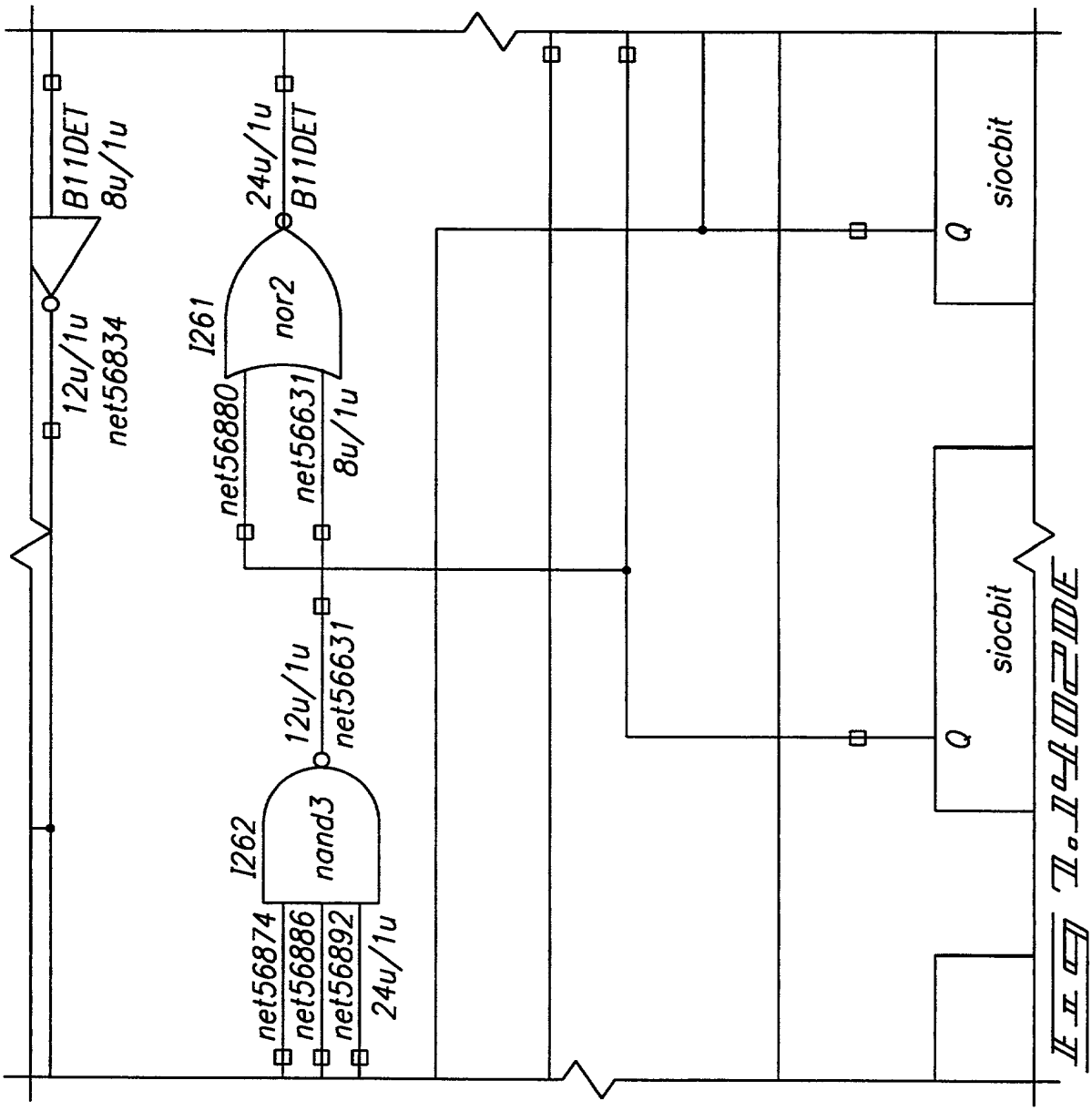
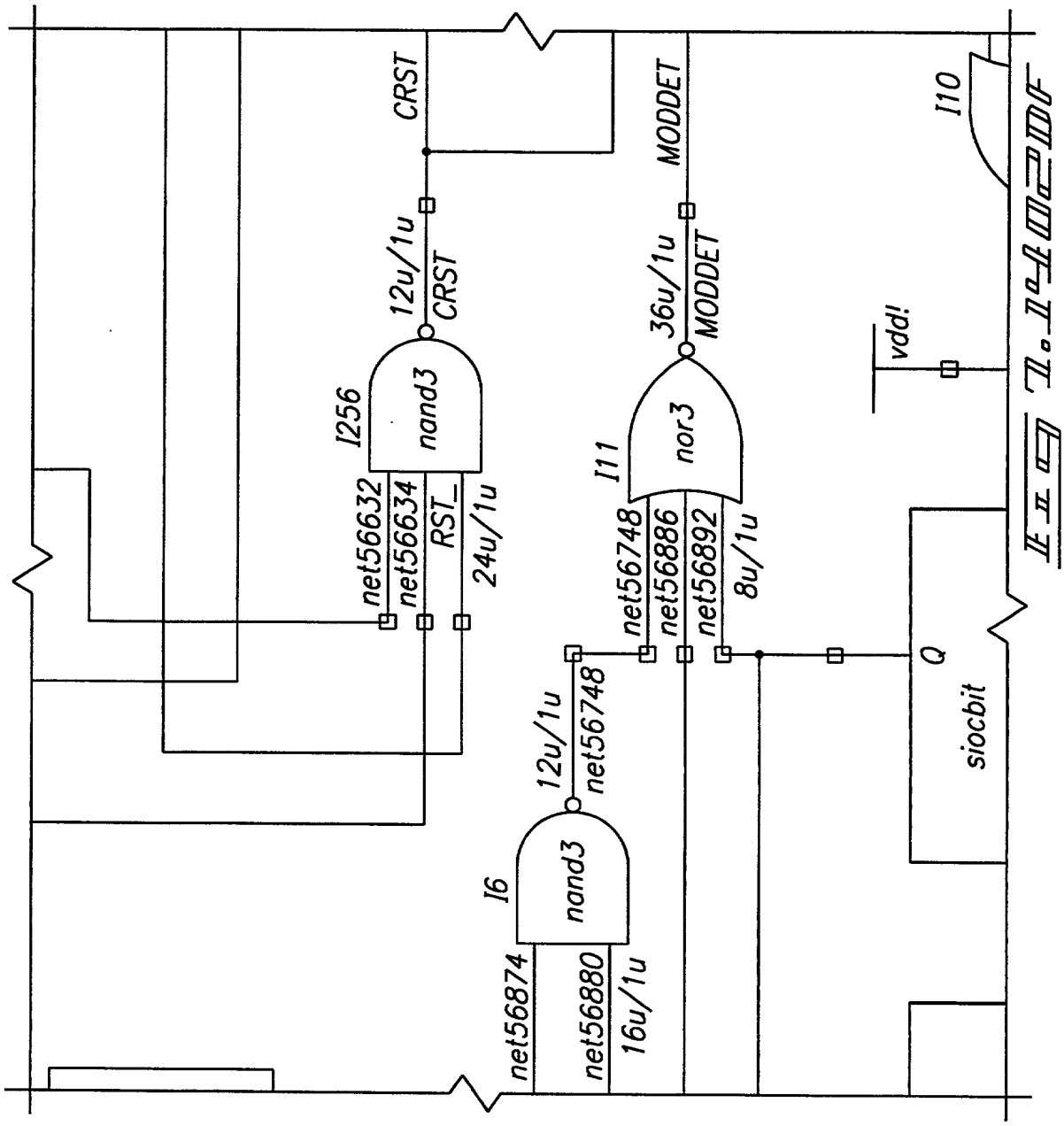
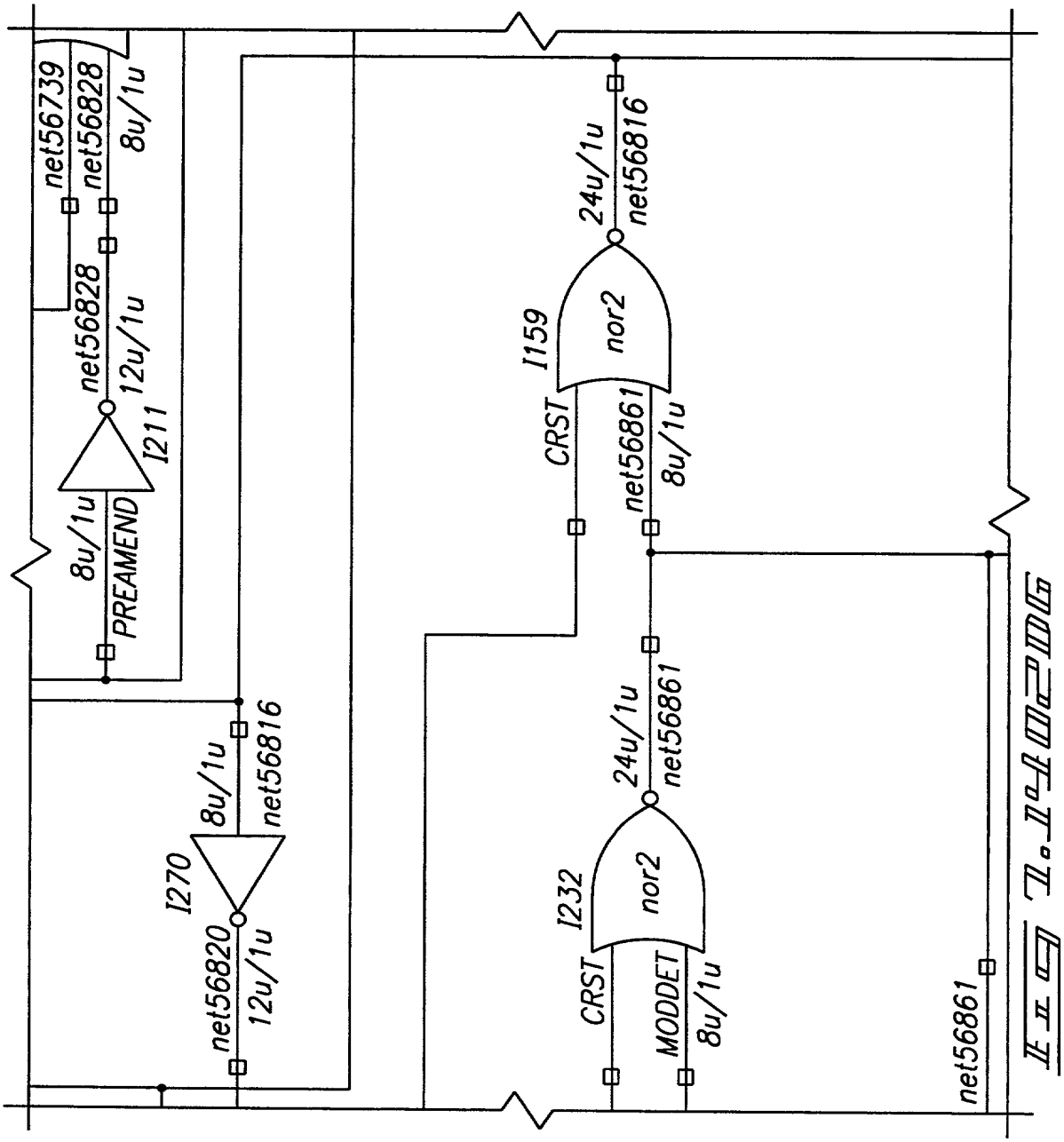


Fig. 1

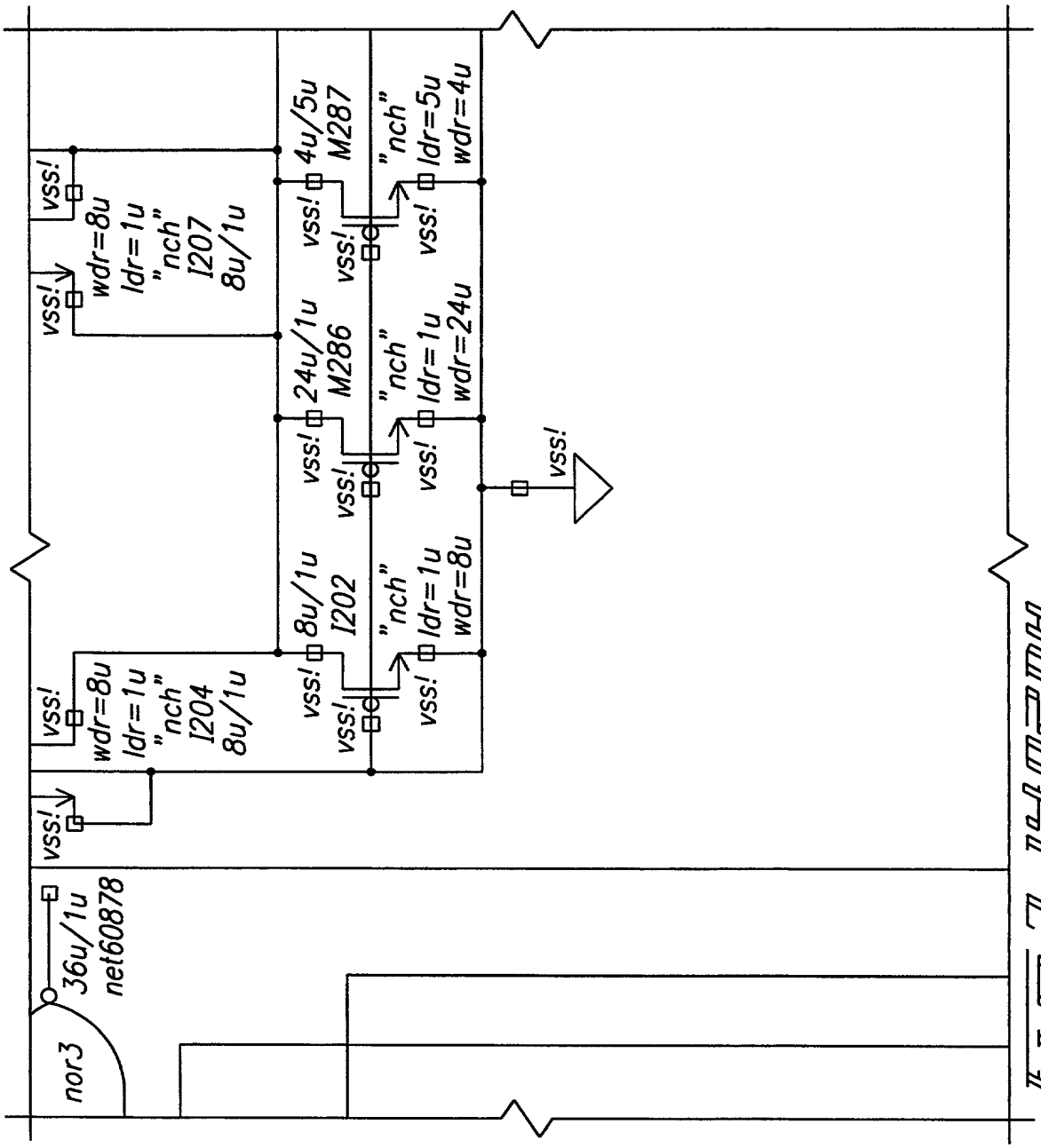

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12u/1u
WRDCLK


B11DET
8u/1u
12u/1u
net56834
24u/1u
B11DET
I261
nor2
net56880
net56631
8u/1u
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Q
siocbit

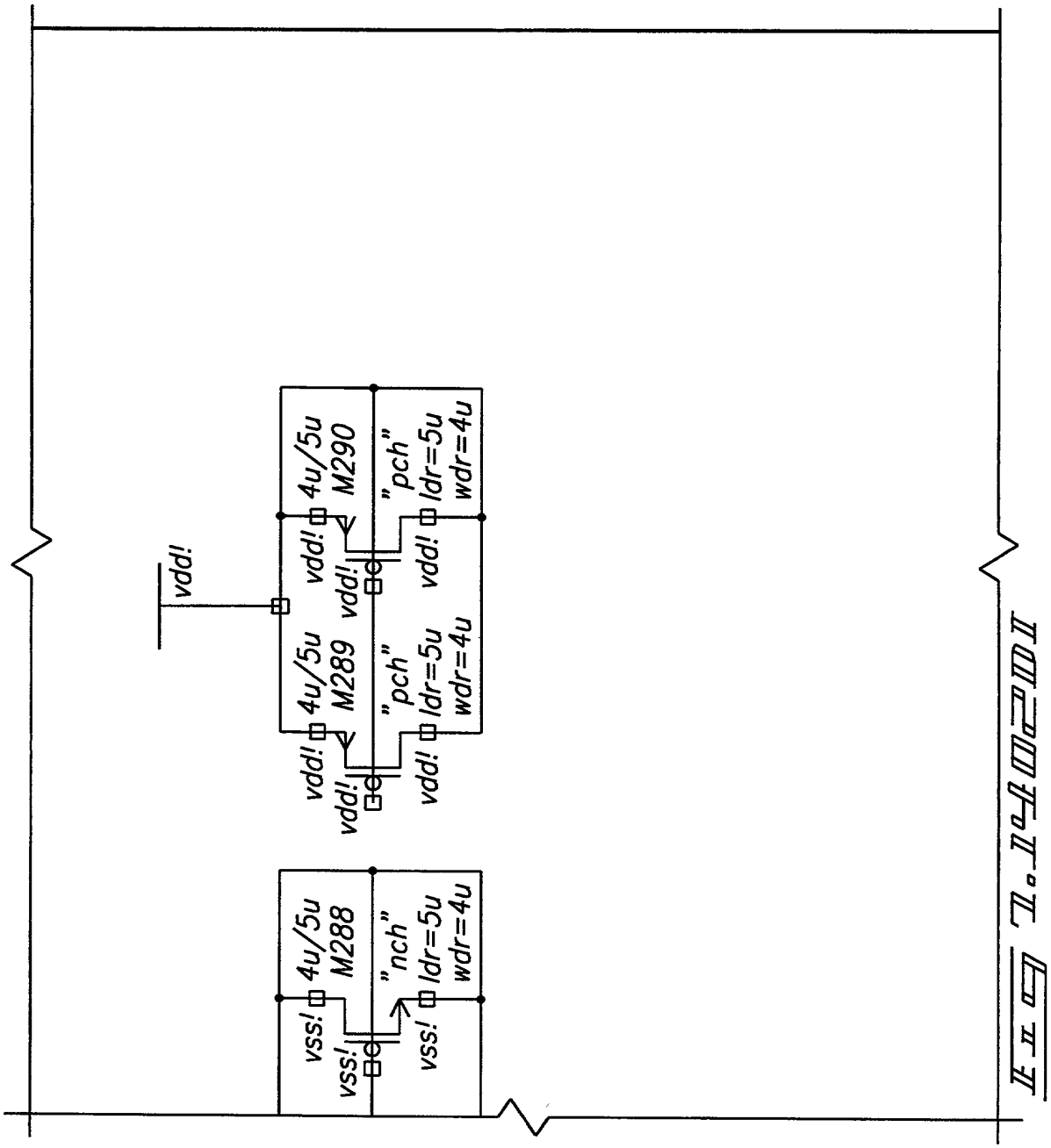

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CRST
36u/1u
MODDET
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nand3
I11
nor3
vdd!
net56632
net56634
RST_
24u/1u
net56748
net56886
net56892
8u/1u
12u/1u
net56748
Q
I6
nand3
siocbit
net56874
net56880
16u/1u


net56739
net56828
8u/1u
net56828
12u/1u
I211
8u/1u
PREAMEND
8u/1u
net56816
I270
net56820
12u/1u
24u/1u
net56816
I159
nor2
CRST
net56861
8u/1u
24u/1u
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I232
nor2
CRST
MODDET
8u/1u
net56861

Patent Drawing



Фиг. 14


vdd!
4u/5u
M289
"pch"
ldr=5u
wdr=4u
4u/5u
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ldr=5u
wdr=4u
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4u/5u
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wdr=4u

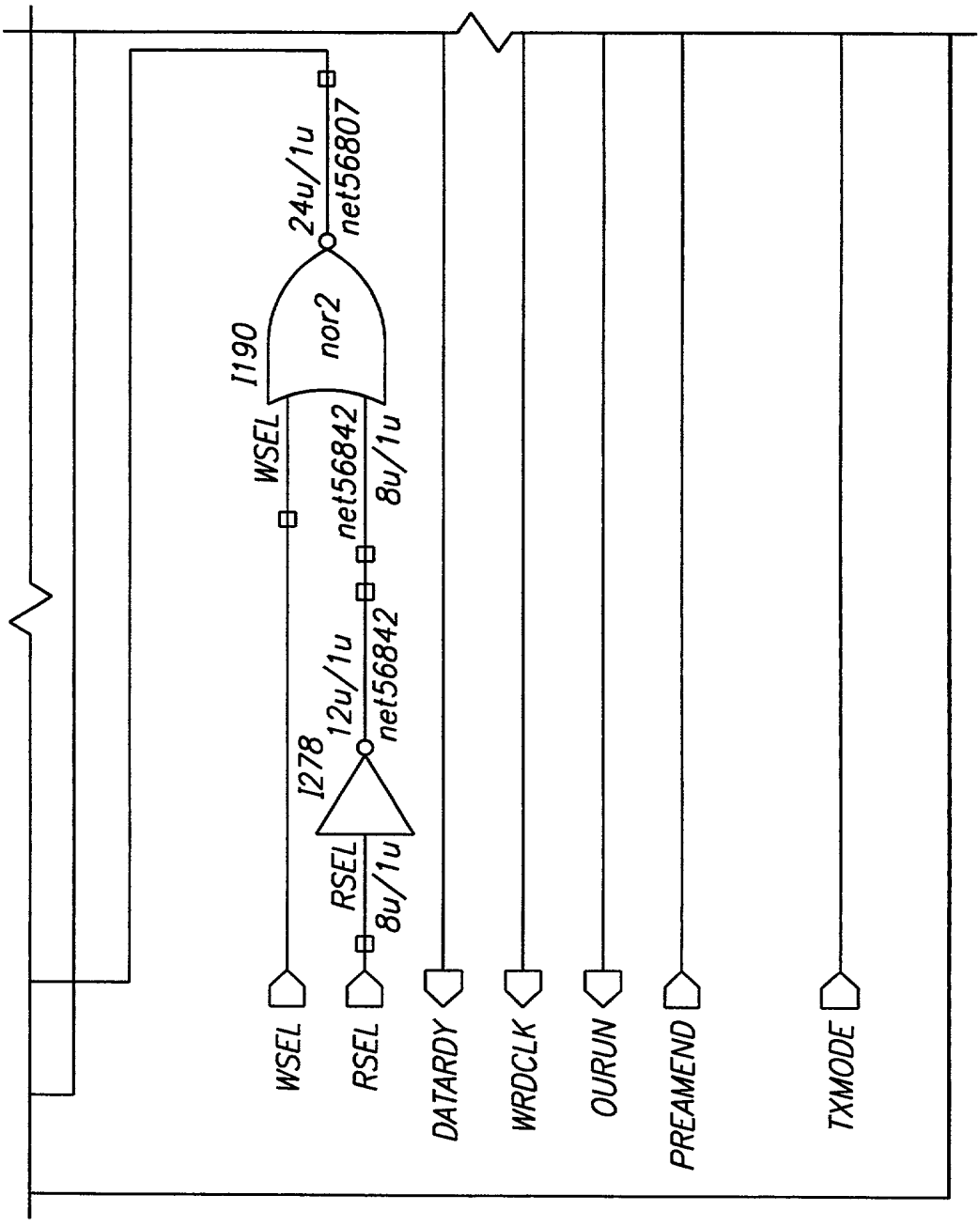
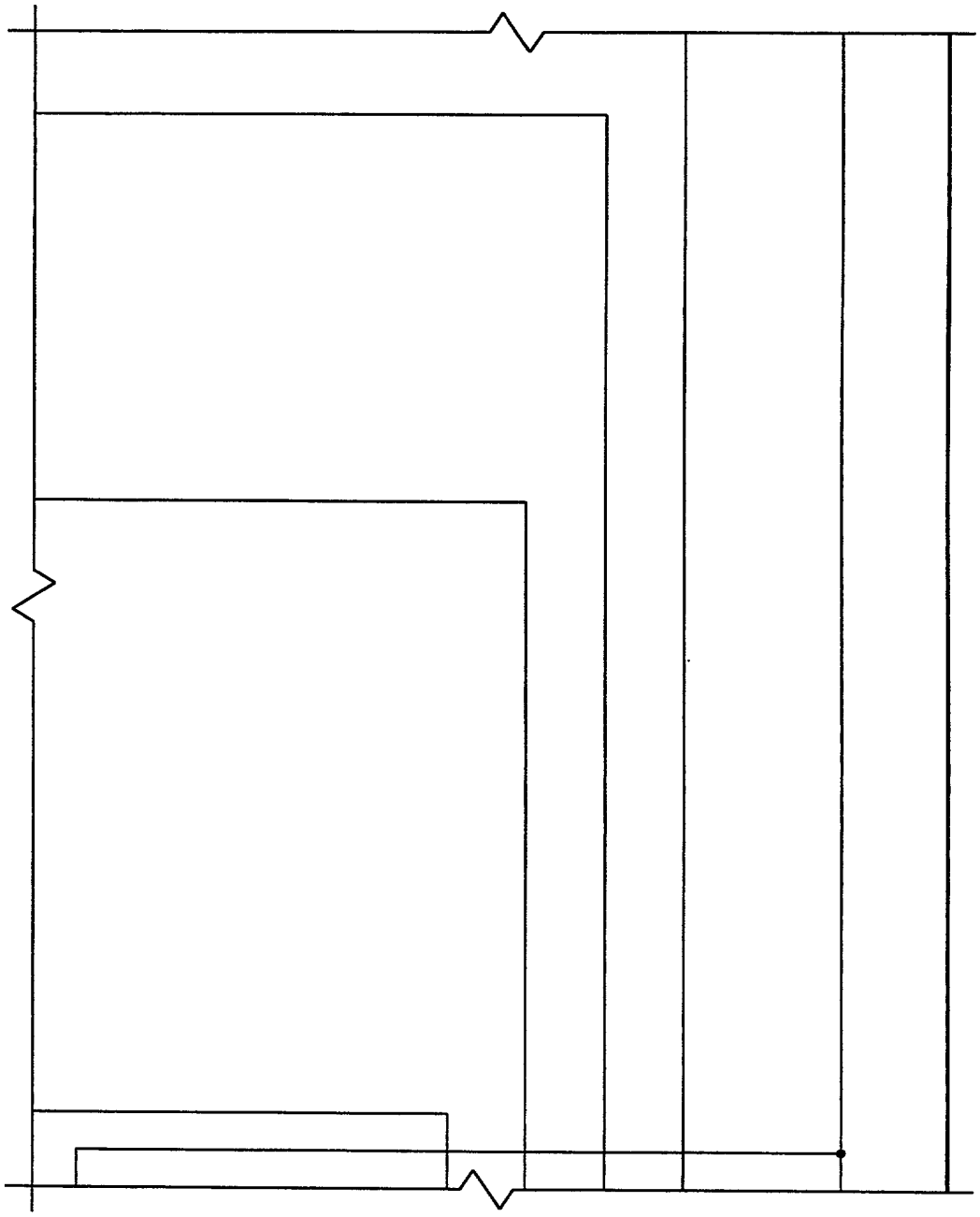
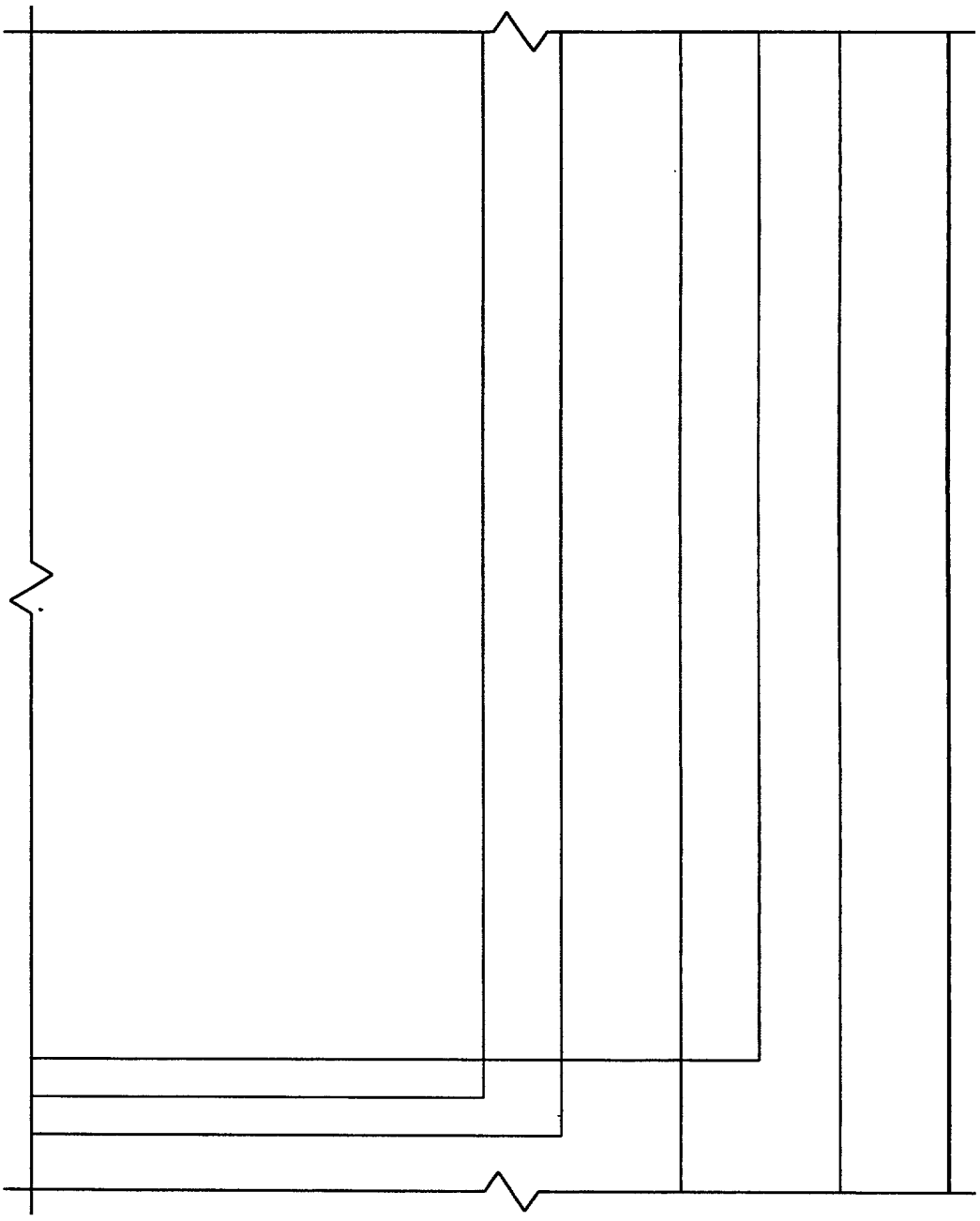


FIG 11.14MDEA



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Doc Code: Appeal Brief

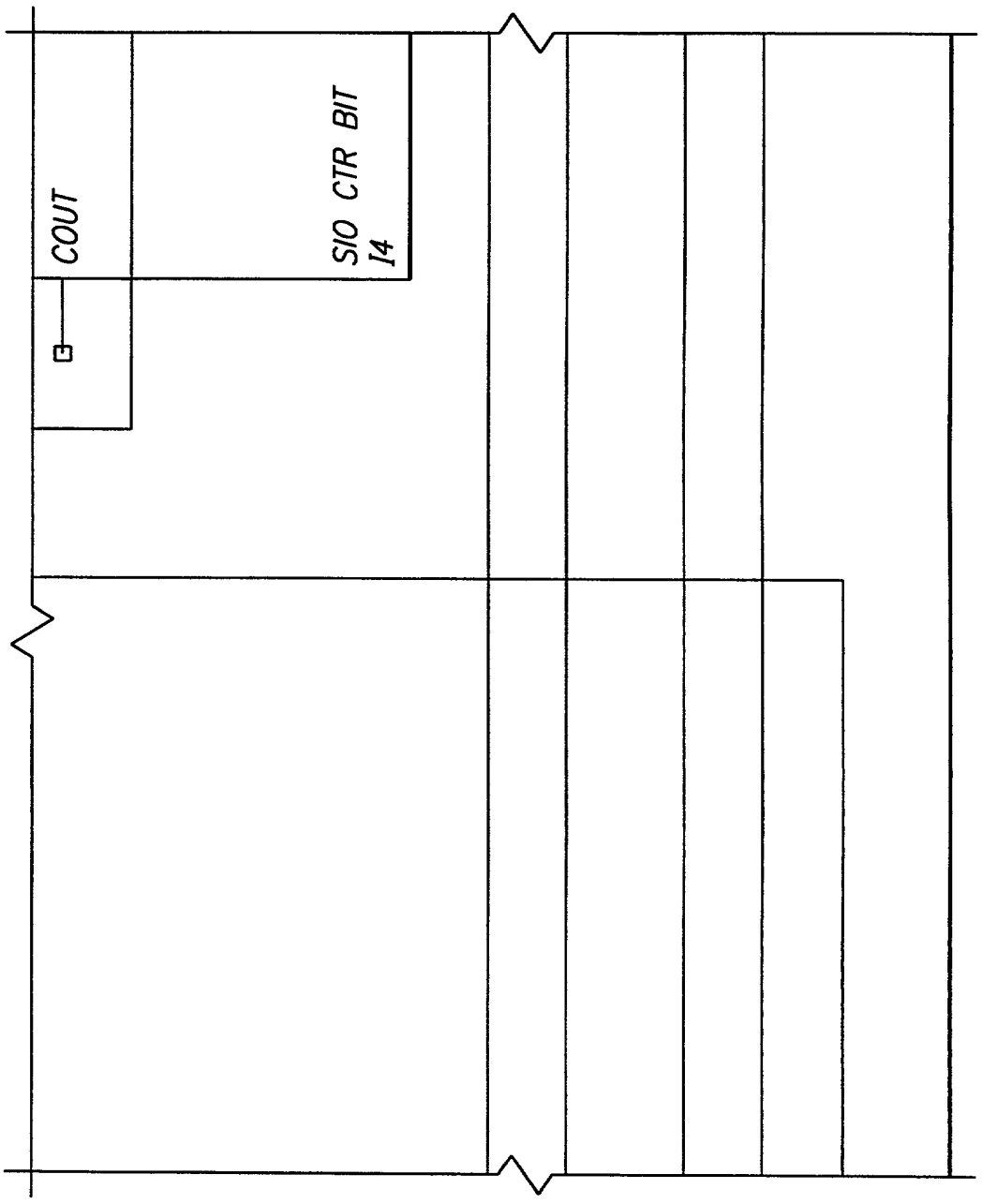
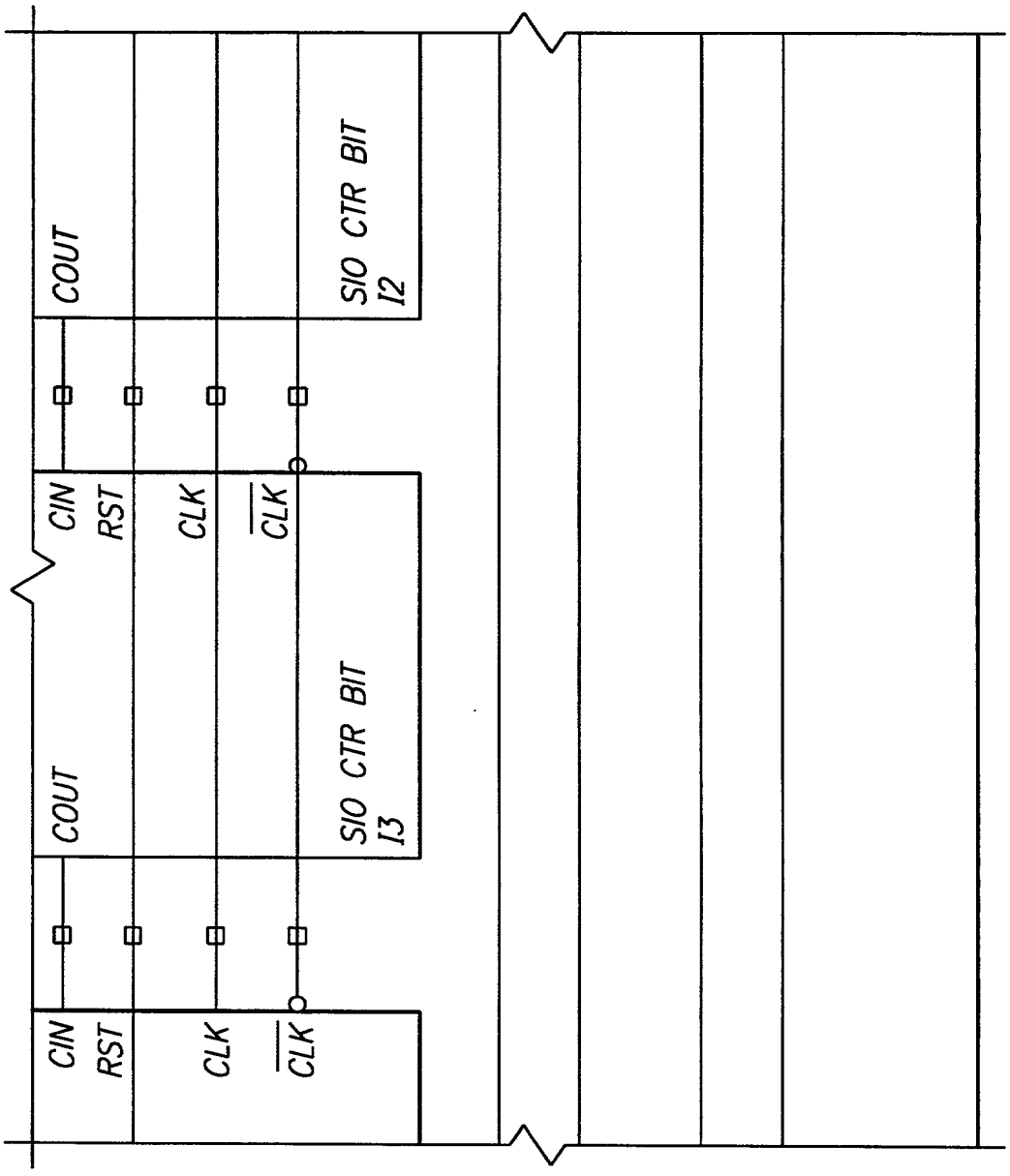


FIG. 14

Petitioner's Exhibit 1005 - Page 1026

Petitpas Exhibit 2002



ФИГ. 11

Patent Application Publication

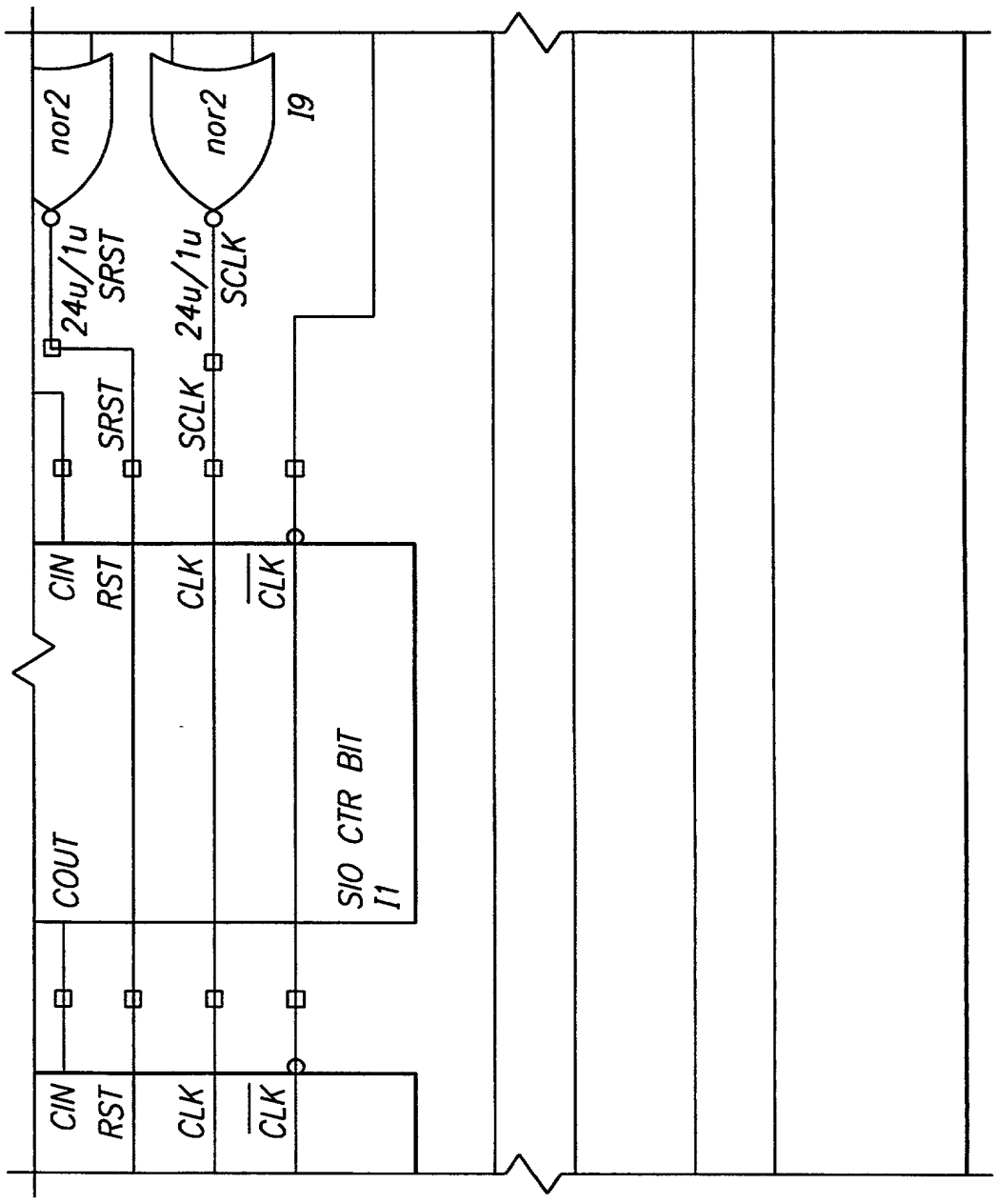
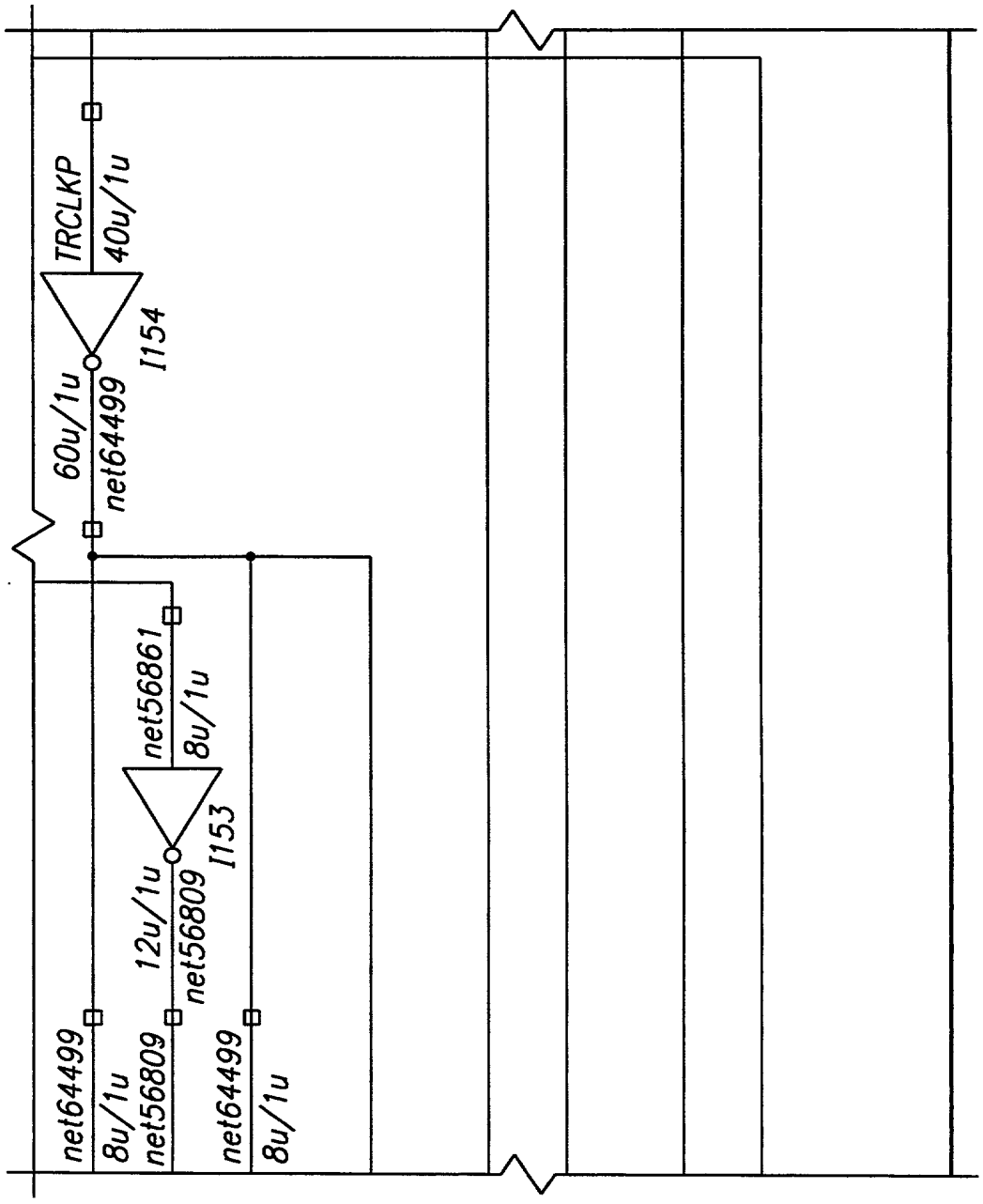
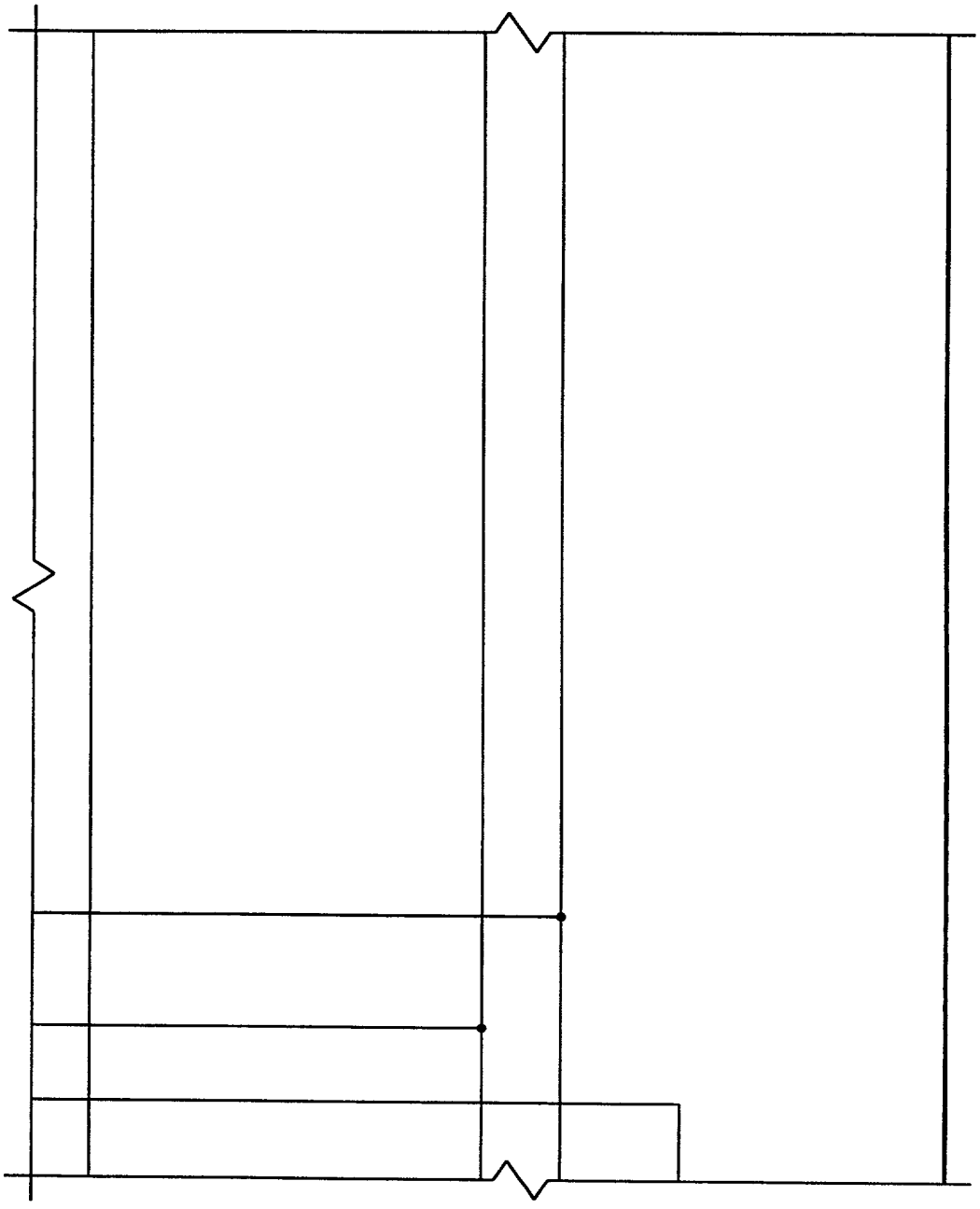


Fig. 11



Фиг. 1

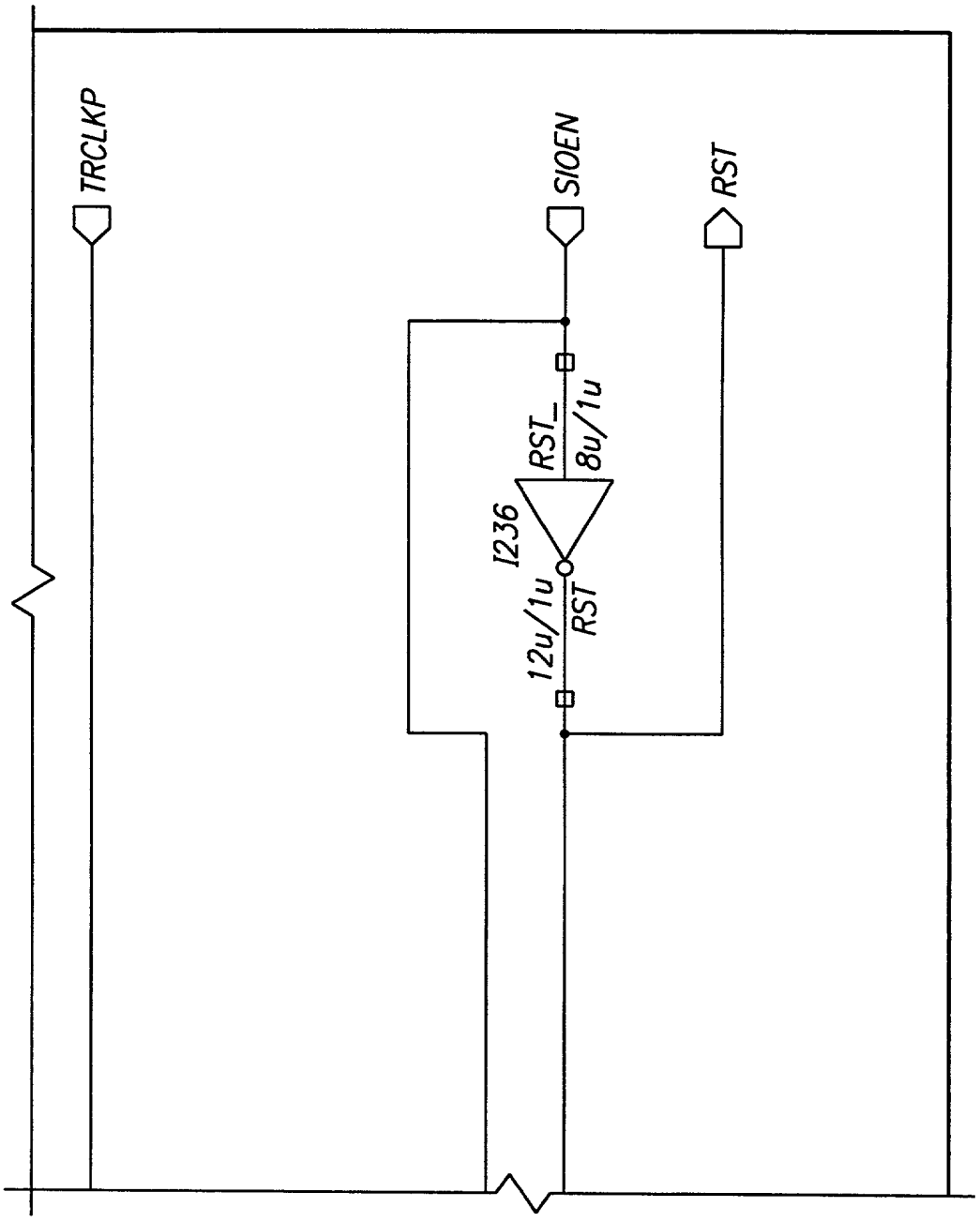
ТОЛТЕХ: ES0229850



Изделие Б

Подлежит уничтожению

Patent application



Фиг. 1.14.0211

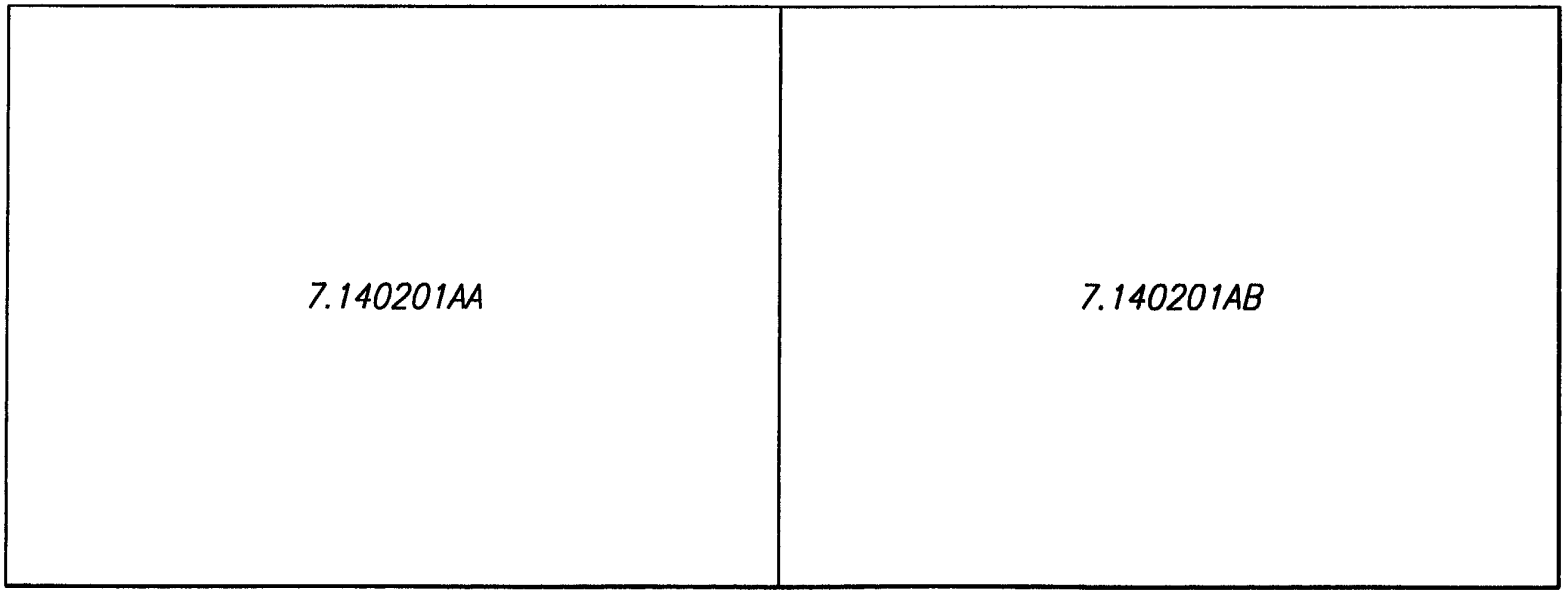


Fig 7.140201

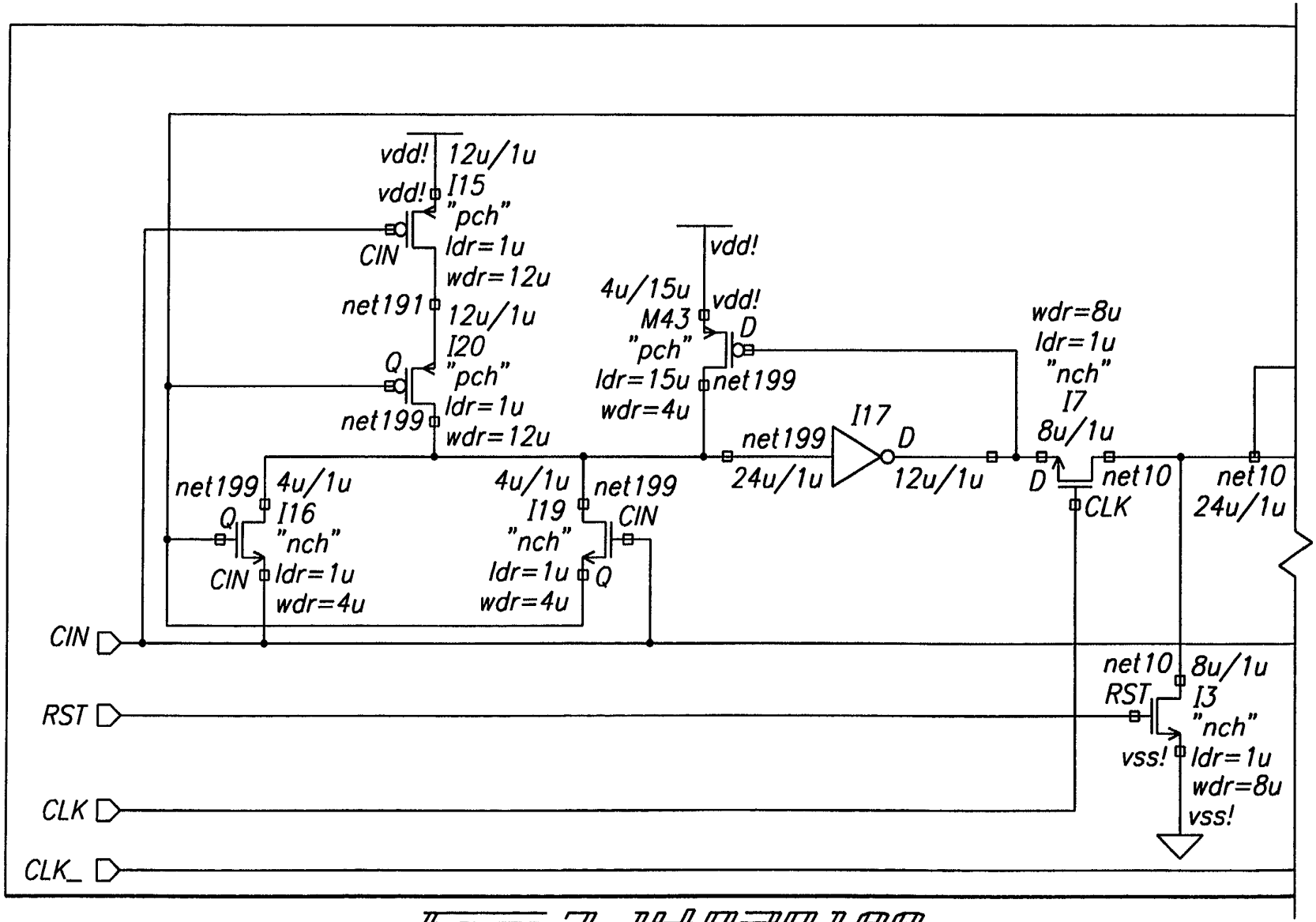


Fig 1.14020AA

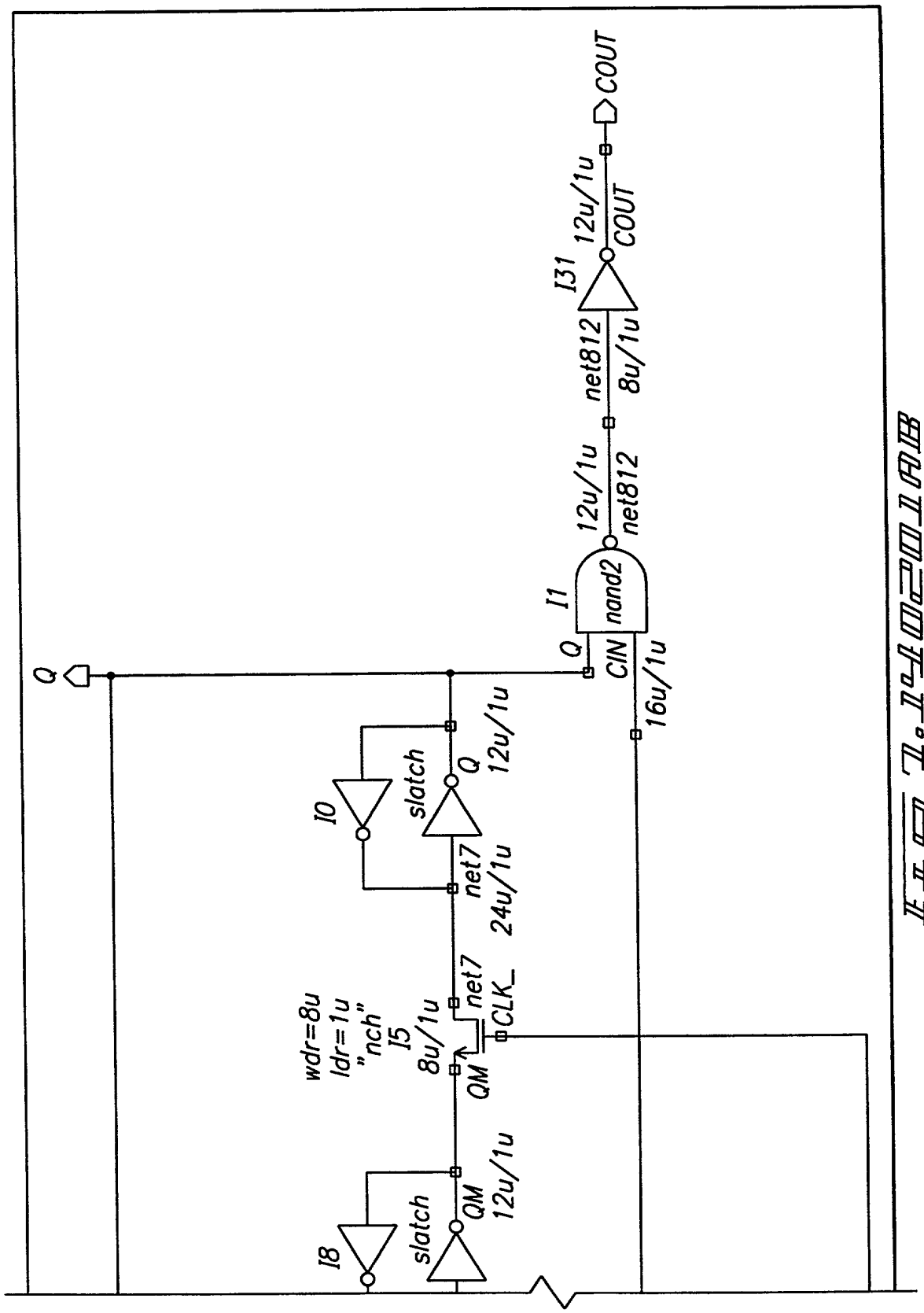


FIG 1.0204.01

TOKYO ELECTRON AMERICA

7.15AA	7.15AB	7.15AC	7.15AD
7.15BA	7.15BB	7.15BC	7.15BD
7.15CA	7.15CB	7.15CC	7.15CD
7.15DA	7.15DB	7.15DC	7.15DD
7.15EA	7.15EB	7.15EC	

Fig 7.15

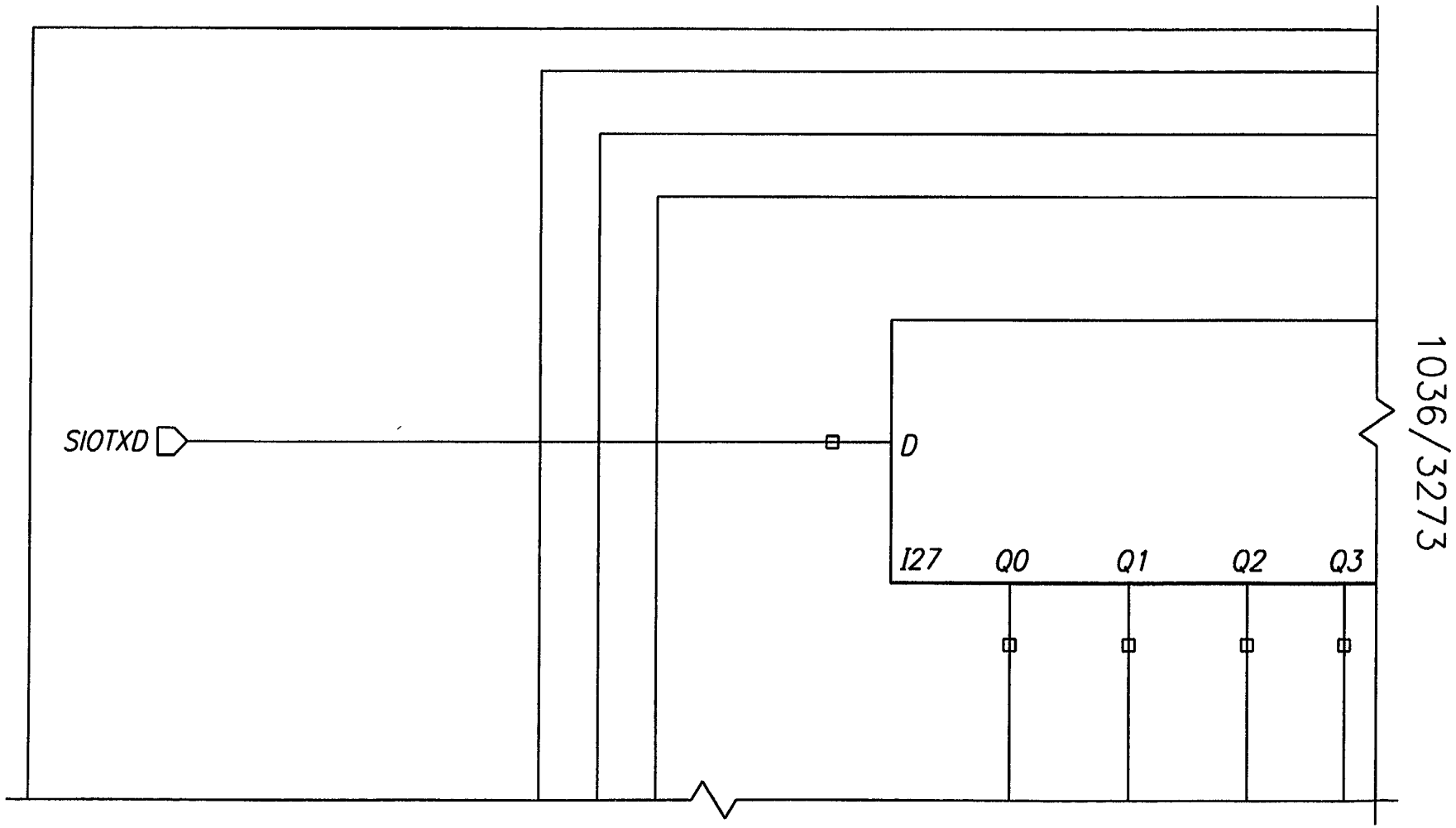
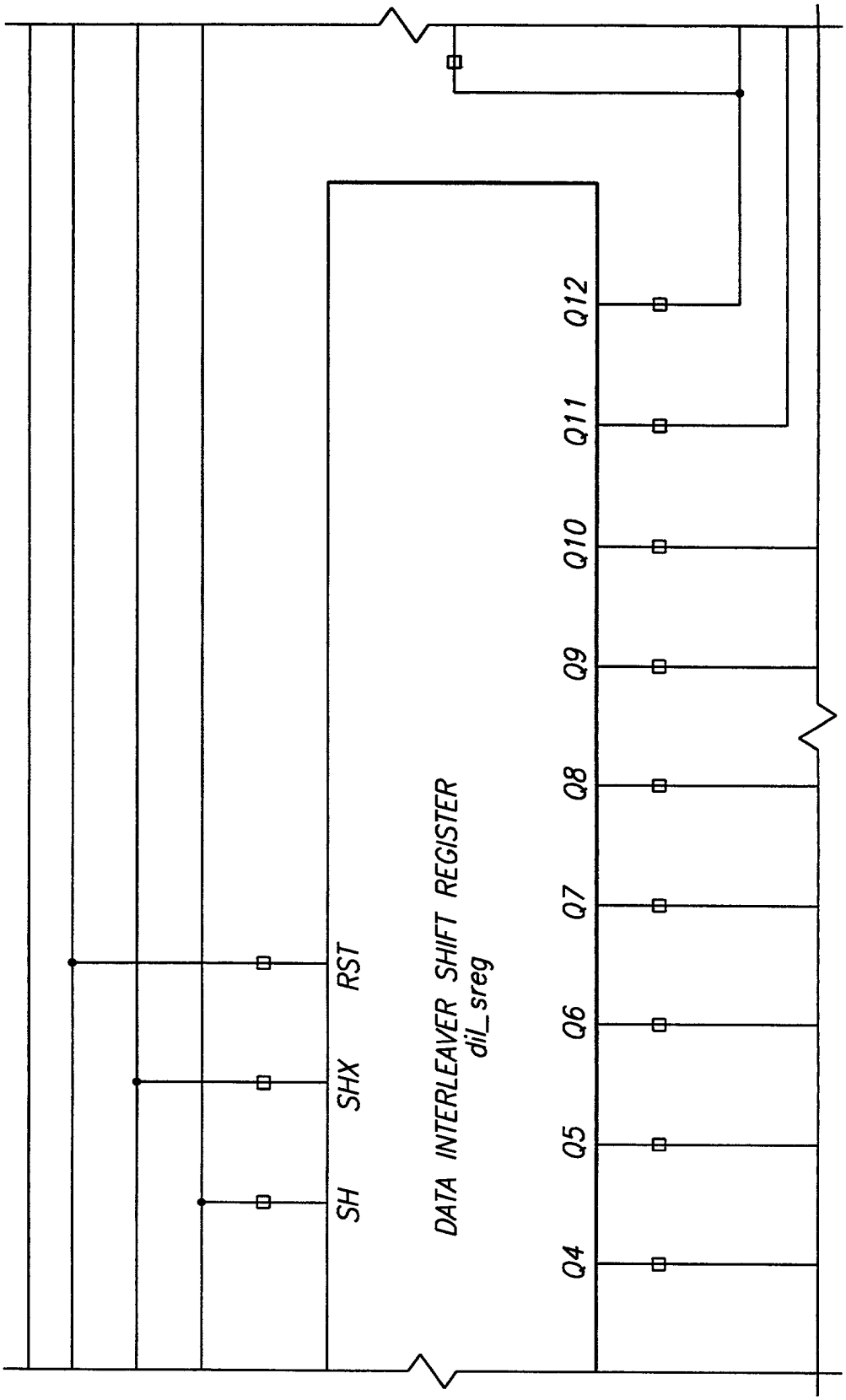
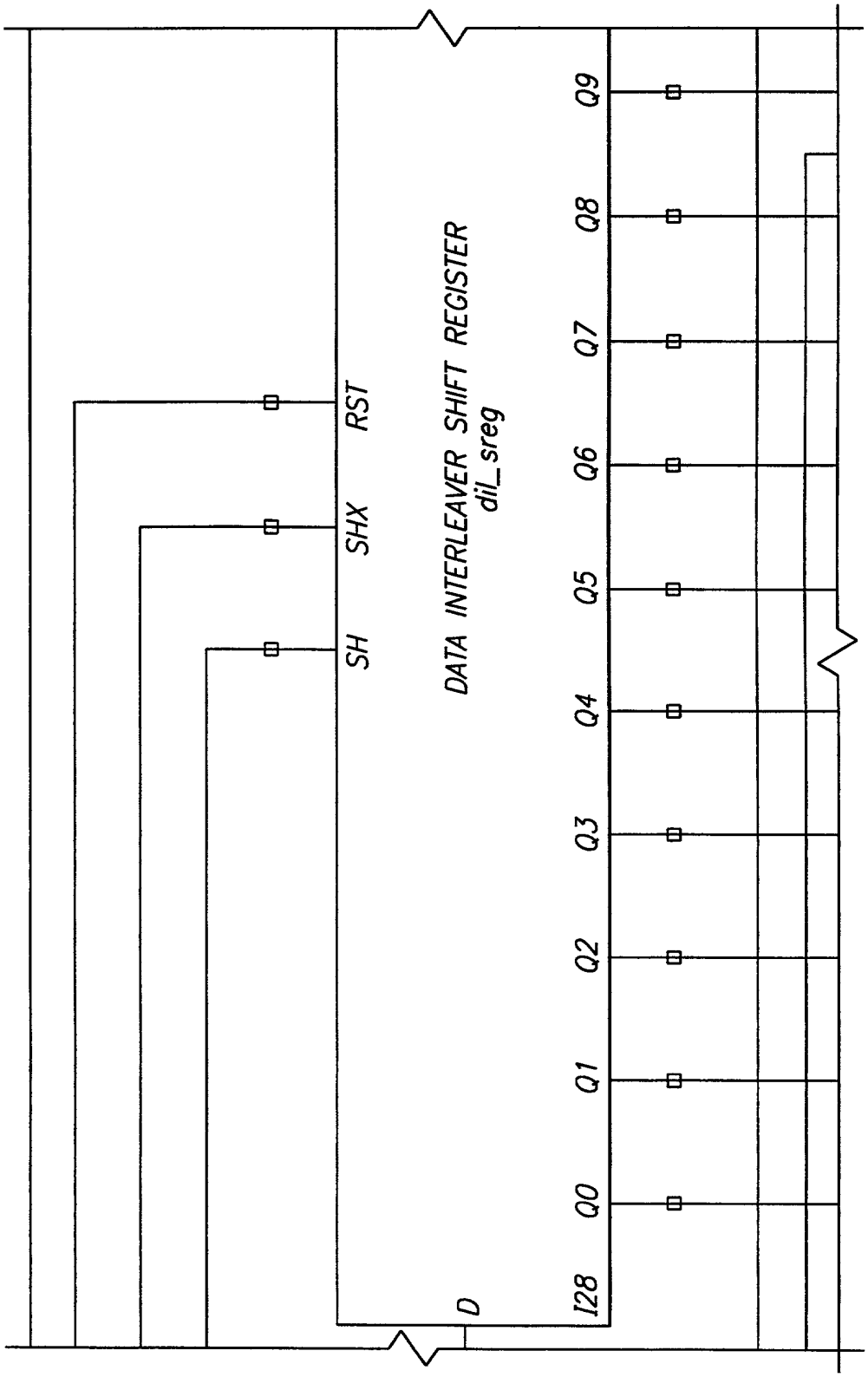


Fig 1.15AA



TOTTEN-20020604



Фиг. 11.15

patent-2502264-0

EP0223868

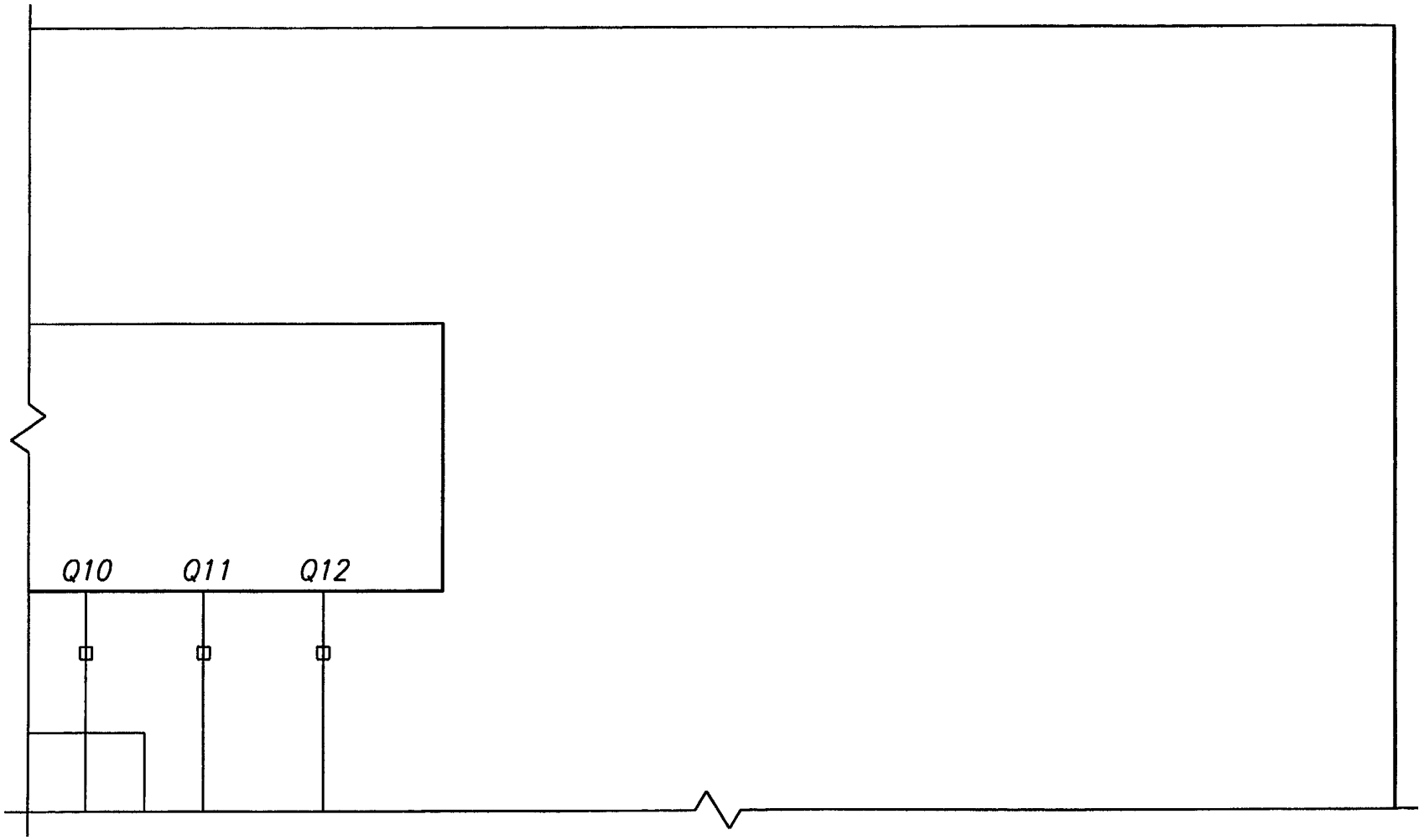


Fig 7.15AD

EP 0 902 260 A1

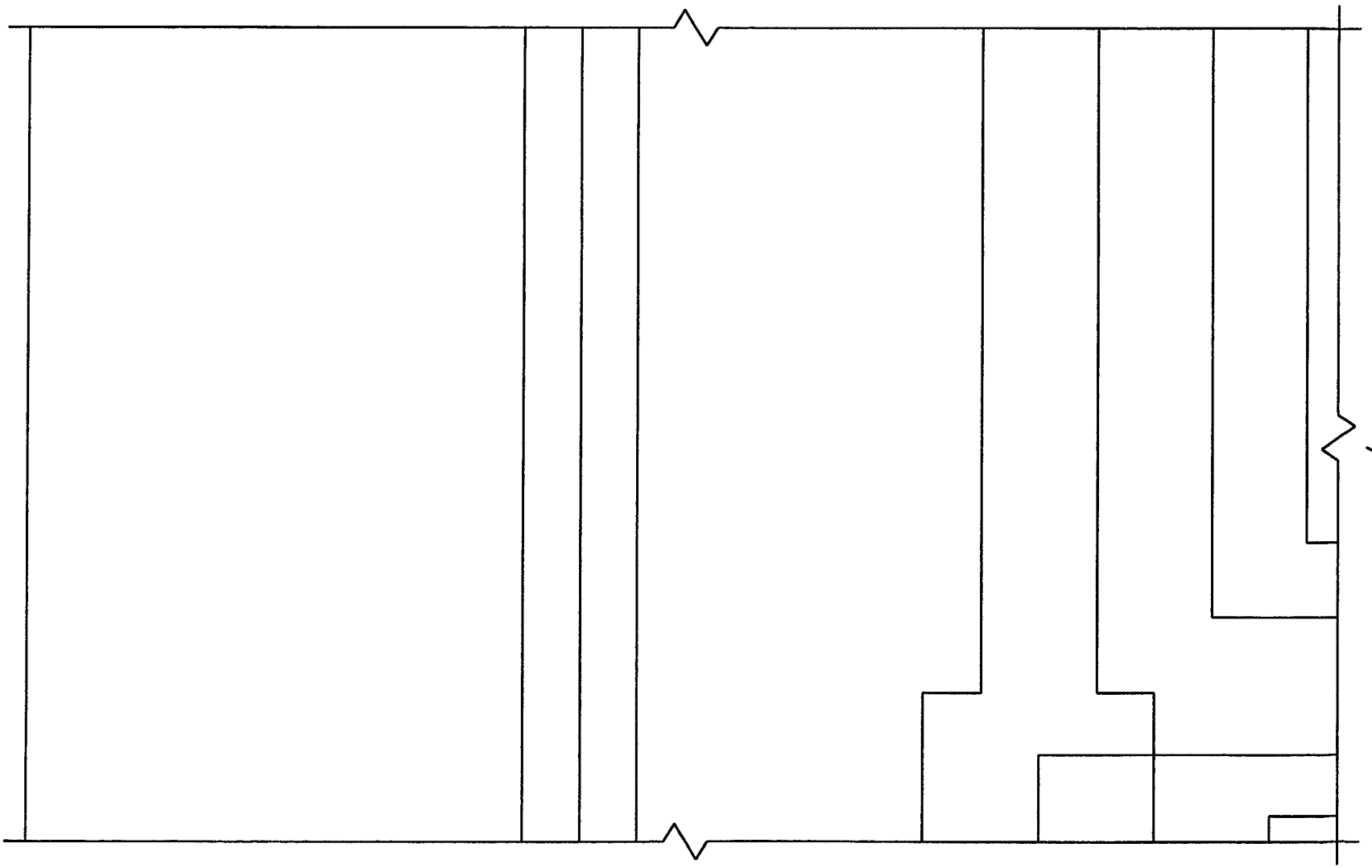


Fig 1.15BA

1041/3273

BEAST. ST

0952295 .05 4401

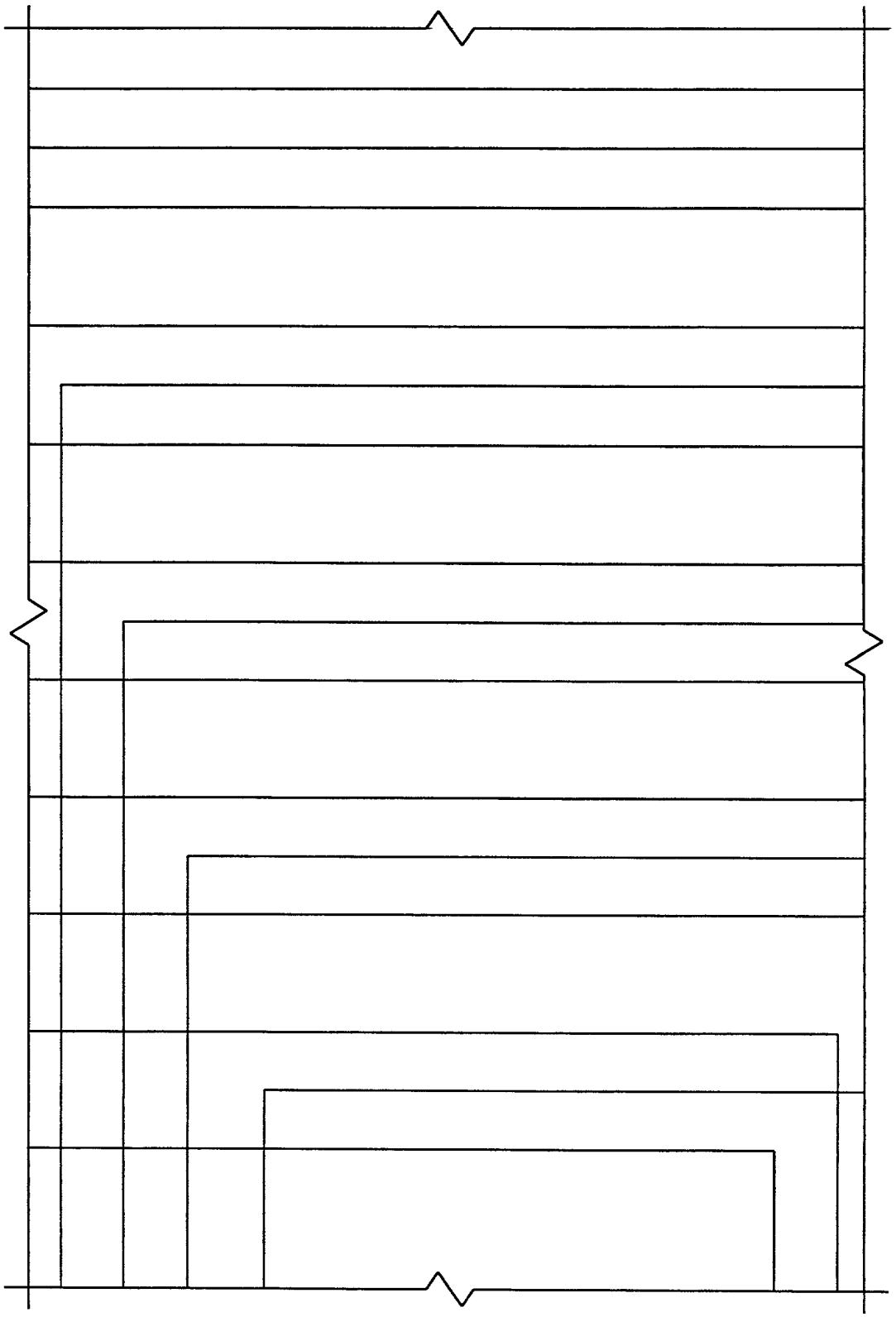
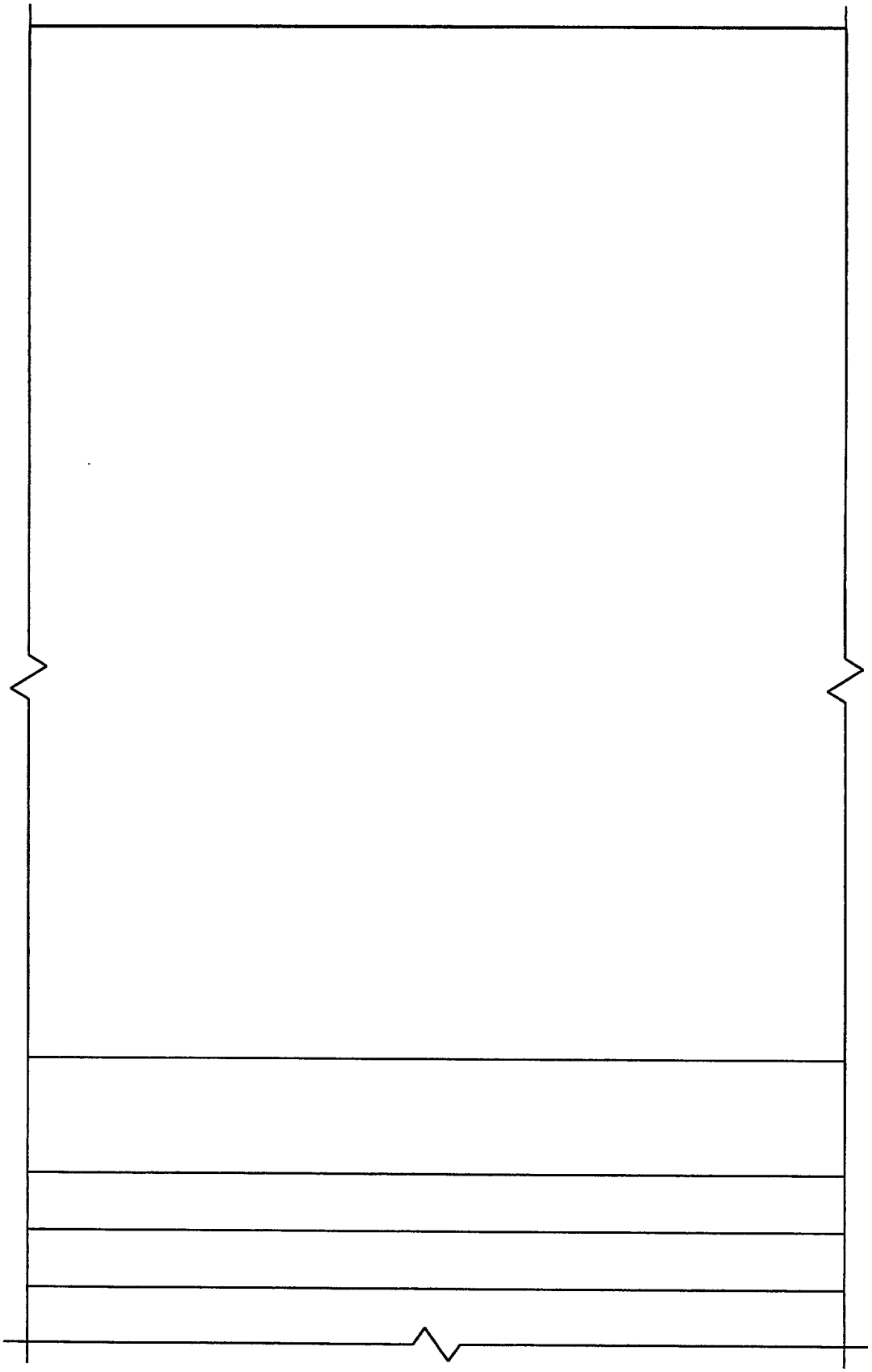


Fig. 11

Petitioner - Exhibit 1042

1043/3273



Document ID: 2005042510

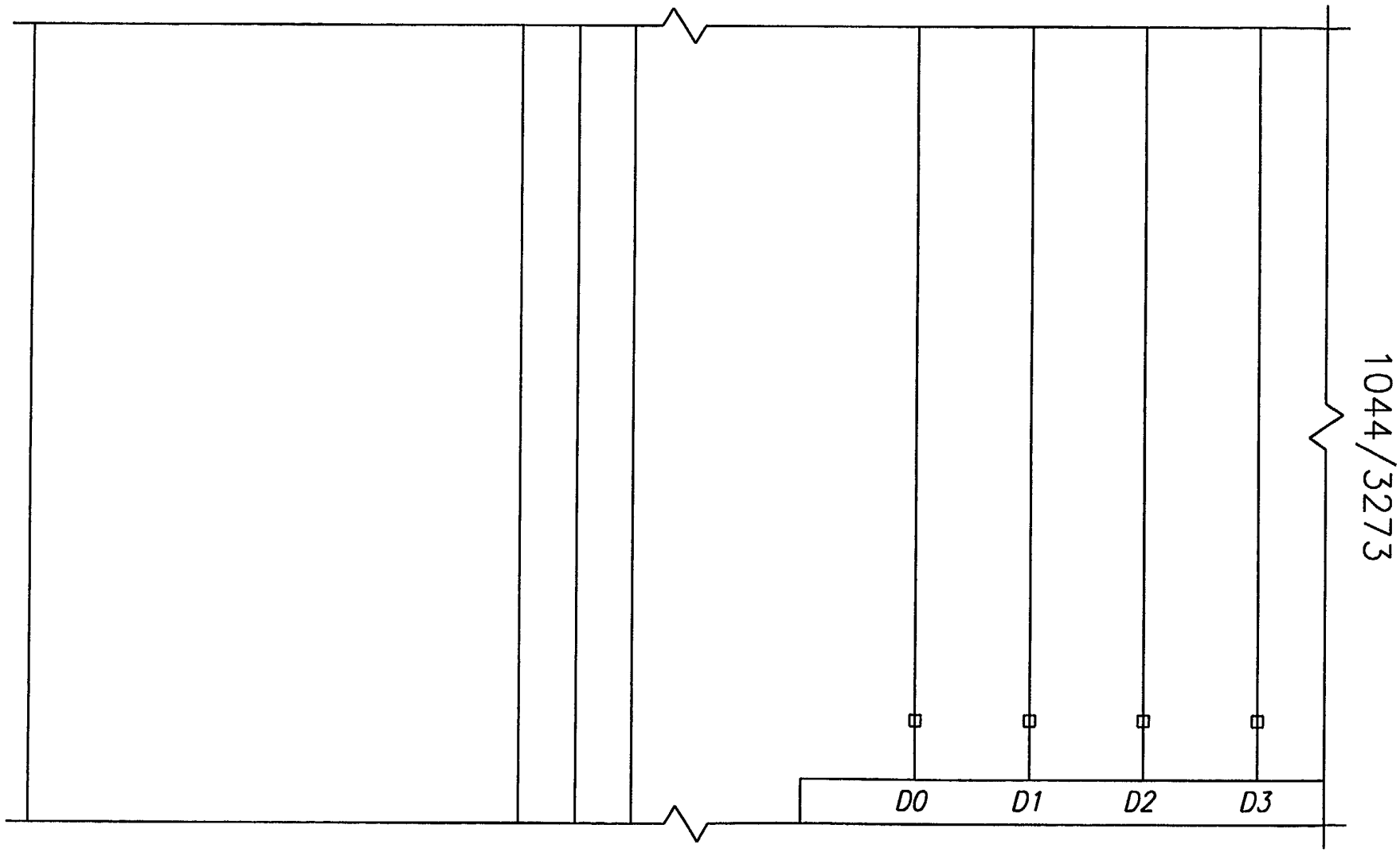
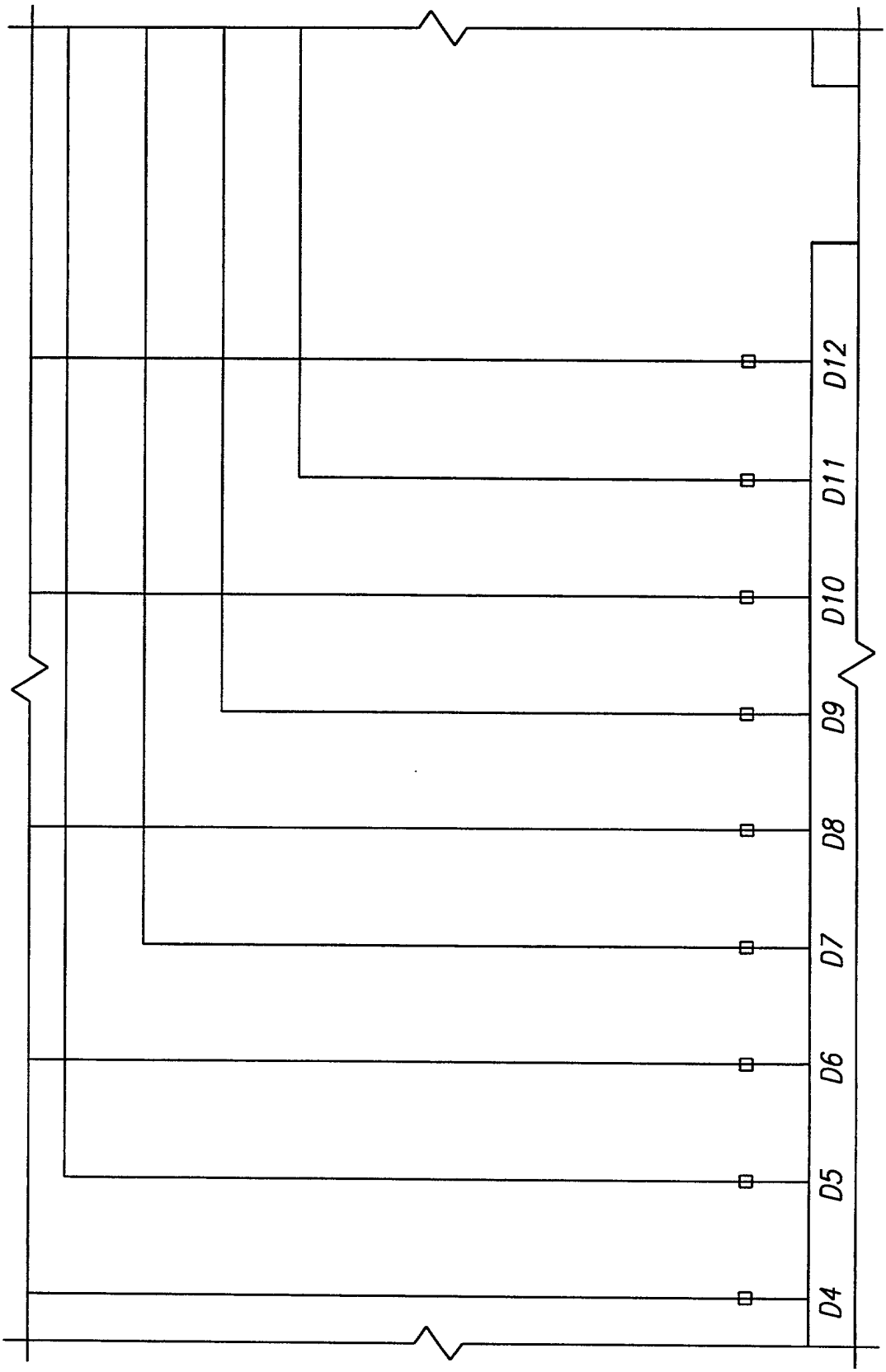


Fig 7.15CA



Фиг. 7

Printed: 29.09.2006 09:14:04

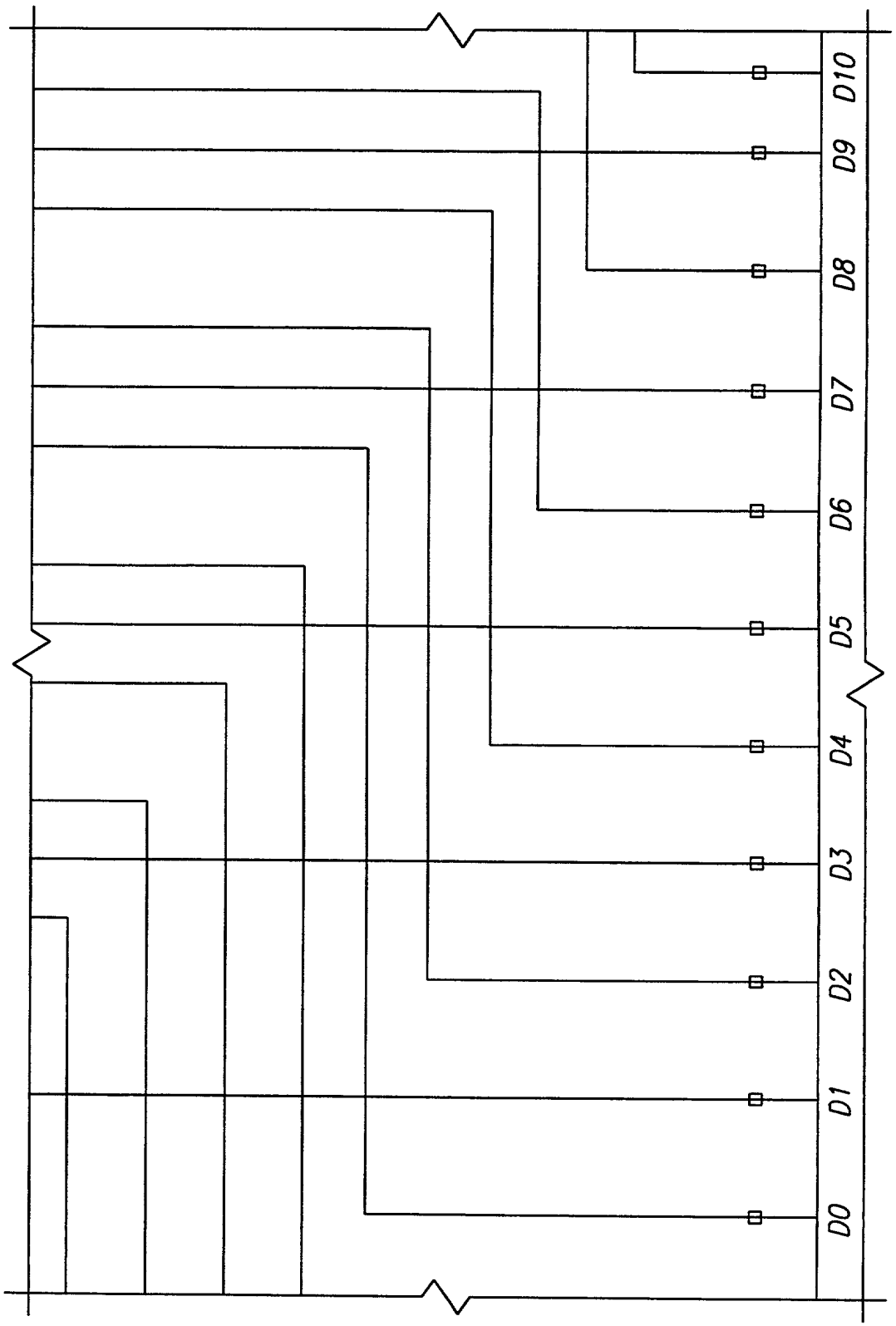
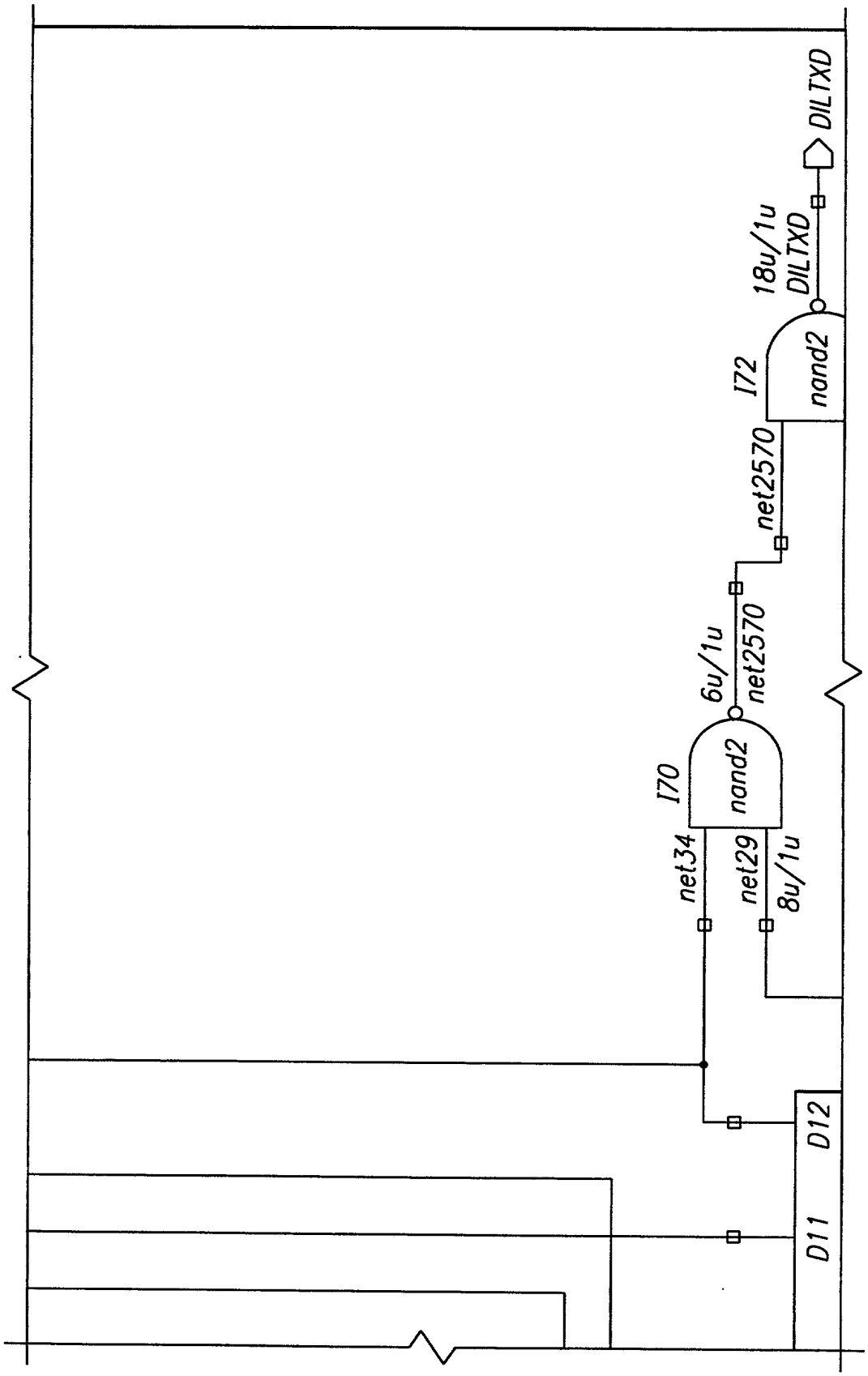


Fig. 7

Case 1:05-cv-00990-SLR Document 1-2 Filed 12/19/2005 Page 9 of 9


DILTXD
18u/1u
DILTXD
I72
nand2
net2570
net2570
6u/1u
I70
nand2
net34
net29
8u/1u
D12
D11

Фиг. 11.15 (III)

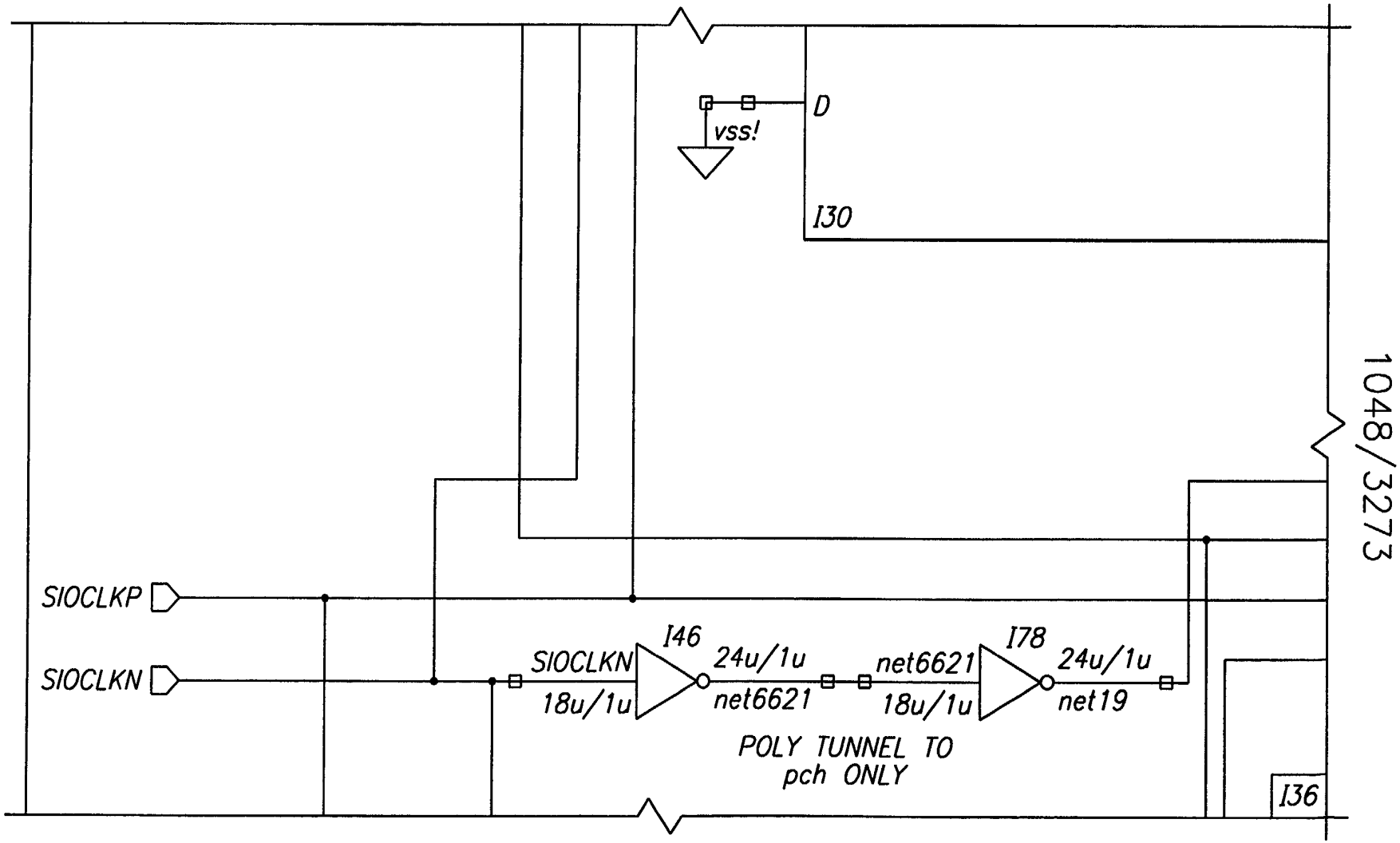
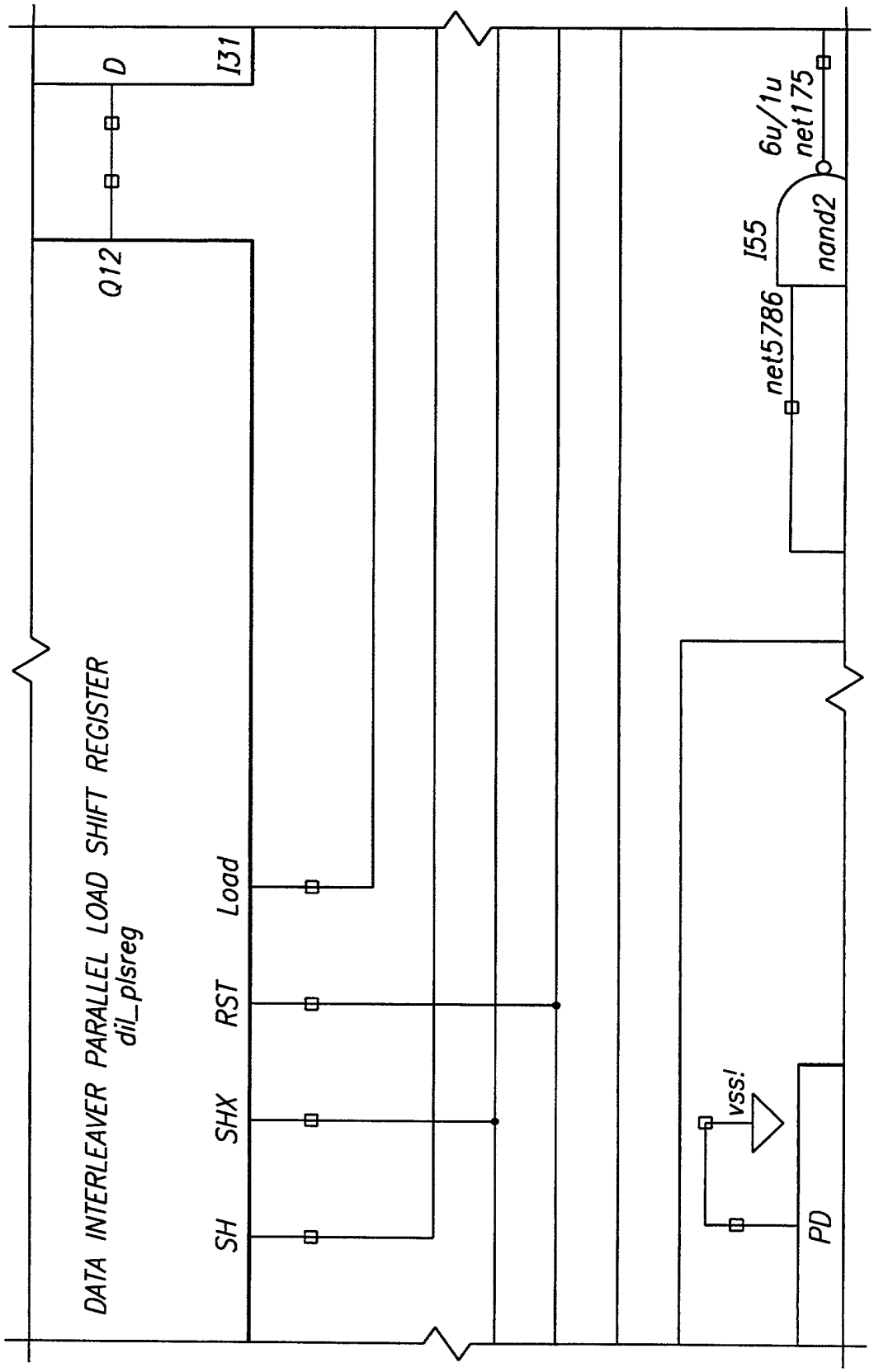

D
vss!
I30
1048/3273
SIOCLKP
SIOCLKN
SIOCLKN
I46
24u/1u
18u/1u
net6621
net6621
I78
24u/1u
18u/1u
net19
POLY TUNNEL TO
pch ONLY
I36

Fig 1.15DA


DATA INTERLEAVER PARALLEL LOAD SHIFT REGISTER
dil_plsreg
SH
SHX
RST
Load
Q12
D
I31
I55
nand2
6u/1u
net175
net5786
vss!
PD

Фиг. 11.5DIB

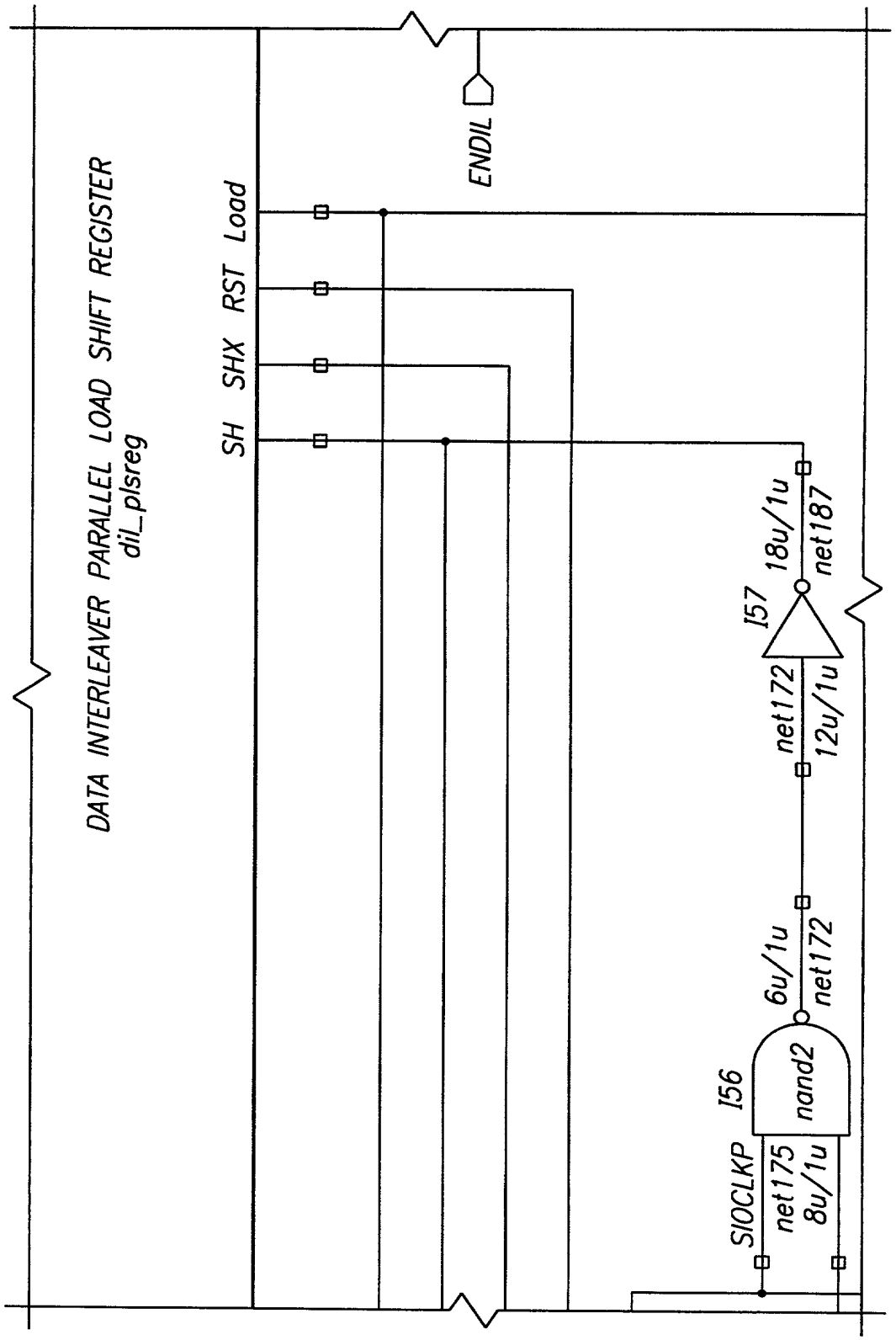


FIG. 6L

TOTSUKA 2002250

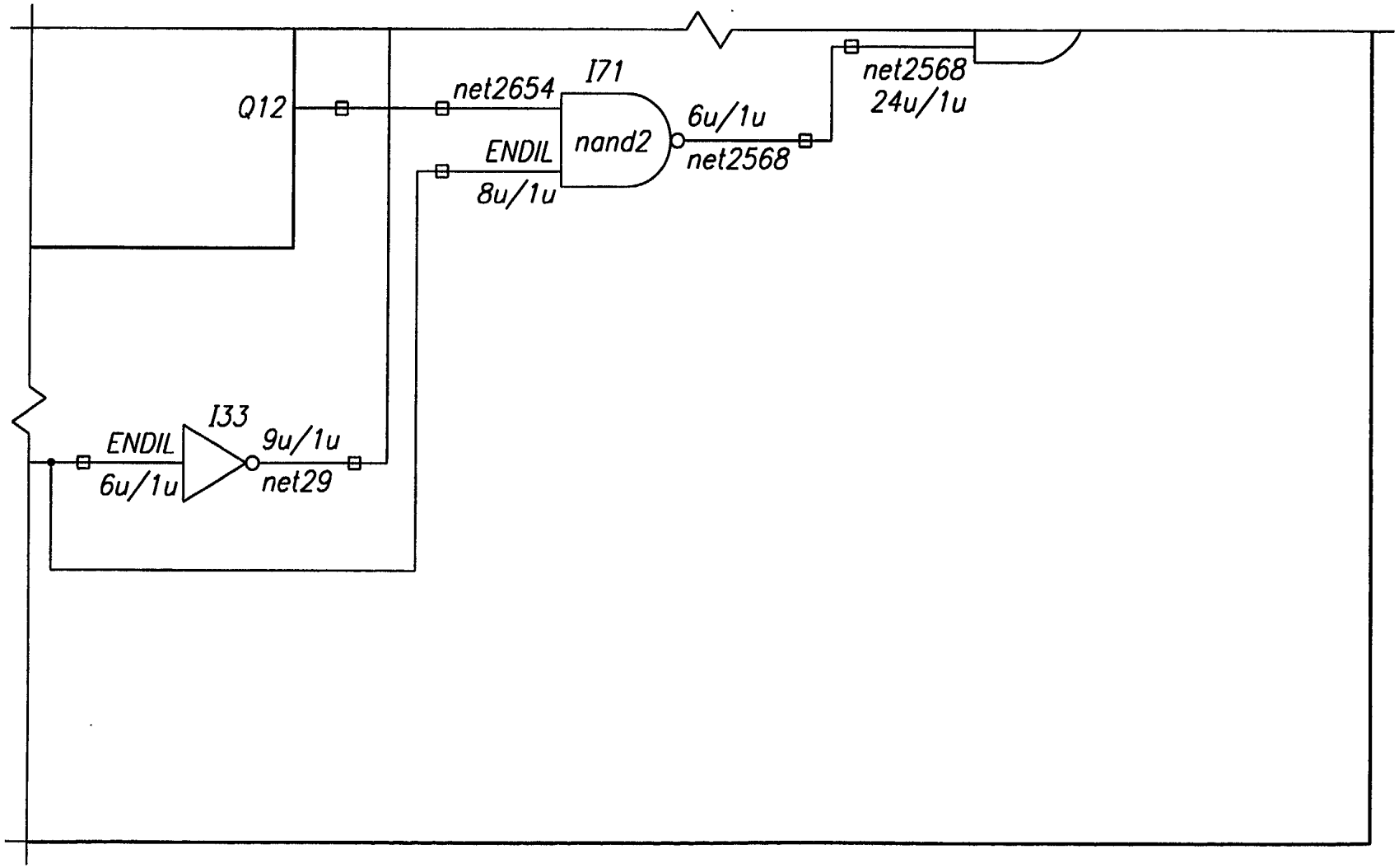

Q12
net2654
I71
ENDIL
nand2
8u/1u
6u/1u
net2568
net2568
24u/1u
I33
ENDIL
6u/1u
9u/1u
net29
1051/3273

Fig 7.1500

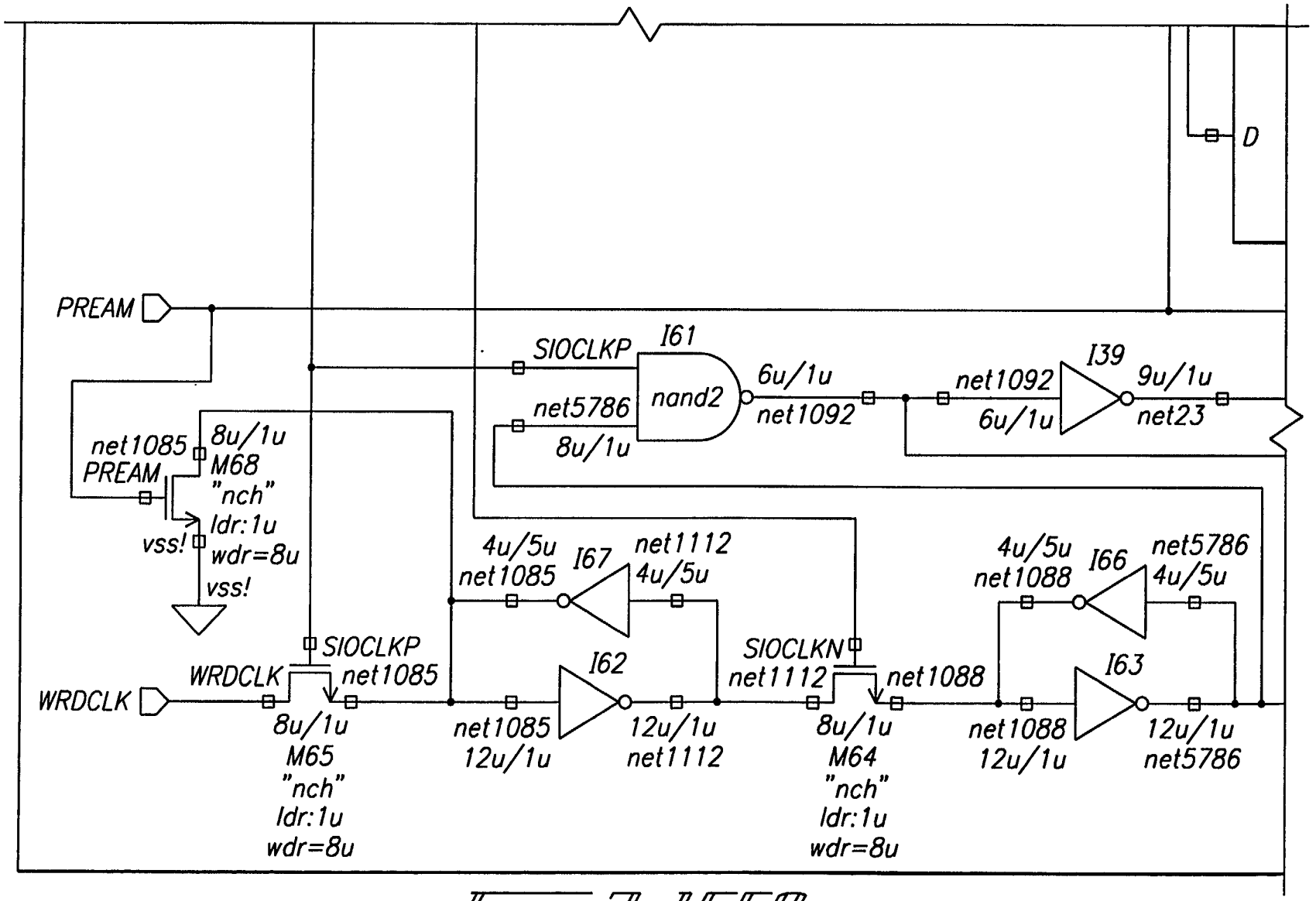

D
PREAM
SIOCLKP
I61
nand2
6u/1u
net1092
net5786
8u/1u
I39
net1092
6u/1u
9u/1u
net23
net1085
PREAM
8u/1u
M68
"nch"
ldr:1u
wdr=8u
vss!
vss!
4u/5u
net1085
I67
net1112
4u/5u
4u/5u
net1088
I66
net5786
4u/5u
SIOCLKP
WRDCLK
net1085
WRDCLK
8u/1u
M65
"nch"
ldr:1u
wdr=8u
I62
net1085
12u/1u
12u/1u
net1112
SIOCLKN
net1112
net1088
8u/1u
M64
"nch"
ldr:1u
wdr=8u
I63
net1088
12u/1u
12u/1u
net5786
1052/3273

Fig 7.15EA

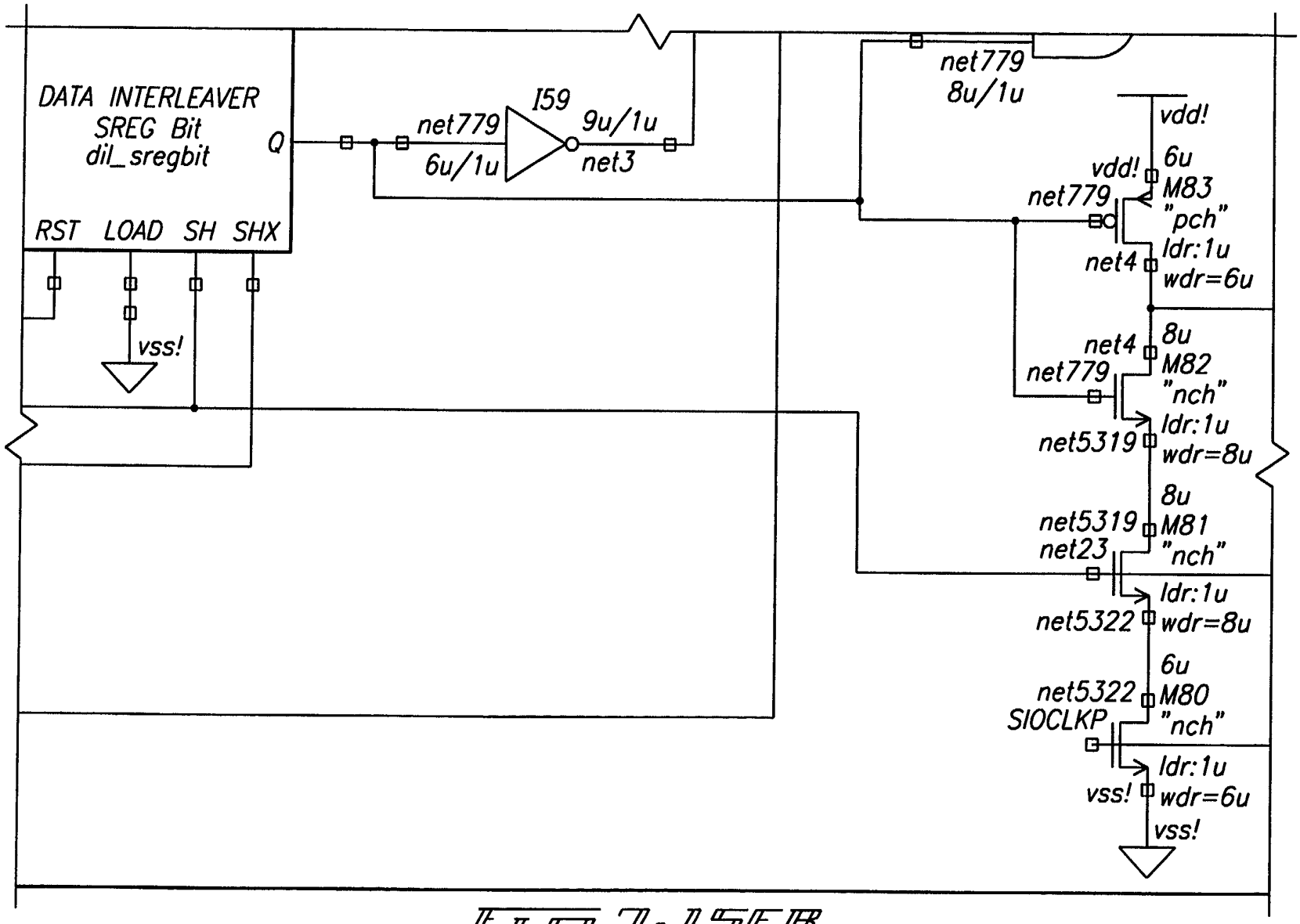

DATA INTERLEAVER
SREG Bit
dil_sregbit
Q
RST
LOAD
SH
SHX
vss!
net779
6u/1u
I59
9u/1u
net3
net779
8u/1u
vdd!
6u
M83
"pch"
ldr:1u
wdr=6u
net4
8u
M82
"nch"
ldr:1u
wdr=8u
net5319
8u
M81
"nch"
ldr:1u
wdr=8u
net5322
6u
M80
"nch"
ldr:1u
wdr=6u
SIOCLKP
vss!

Fig 7.15EB

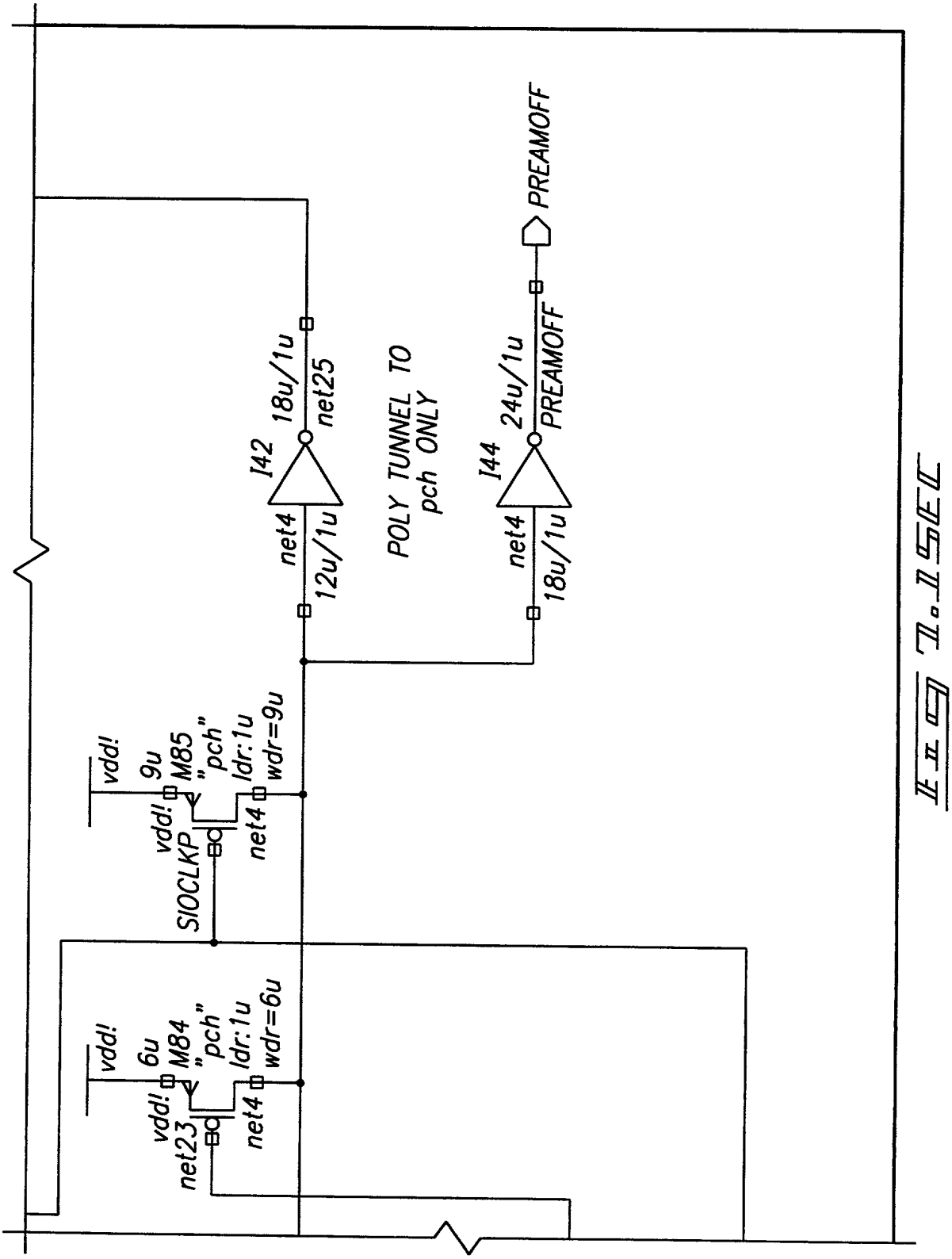

vdd!
9u
M85
"pch"
ldr:1u
wdr=9u
vdd!
SIOCLKP
net4
vdd!
6u
M84
"pch"
ldr:1u
wdr=6u
vdd!
net23
net4
I42
18u/1u
net25
net4
12u/1u
POLY TUNNEL TO
pch ONLY
I44
24u/1u
PREAMOFF
PREAMOFF
net4
18u/1u

Fig 11.45

1055/3273

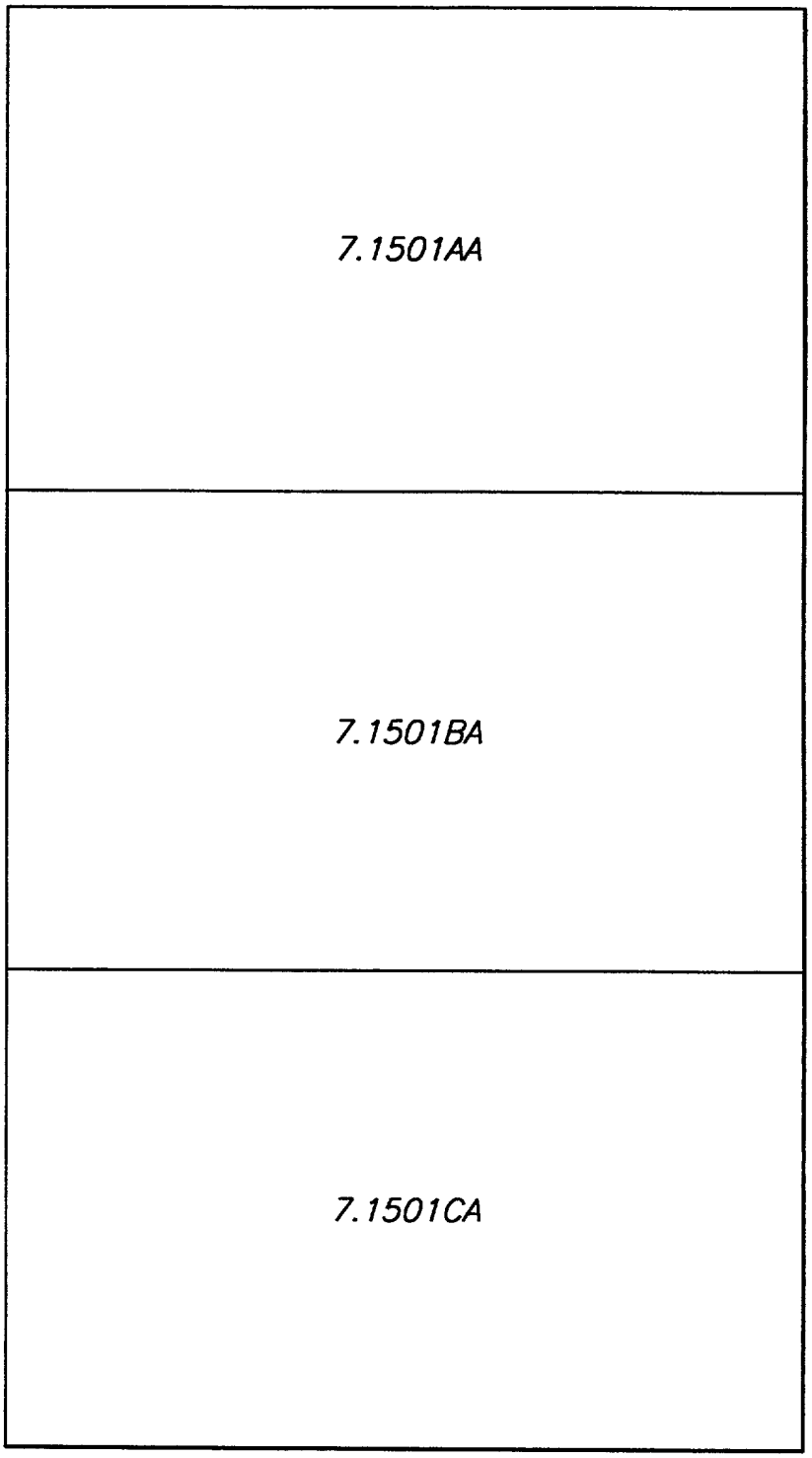


Fig 7.1501

Filed: 03/14/2005

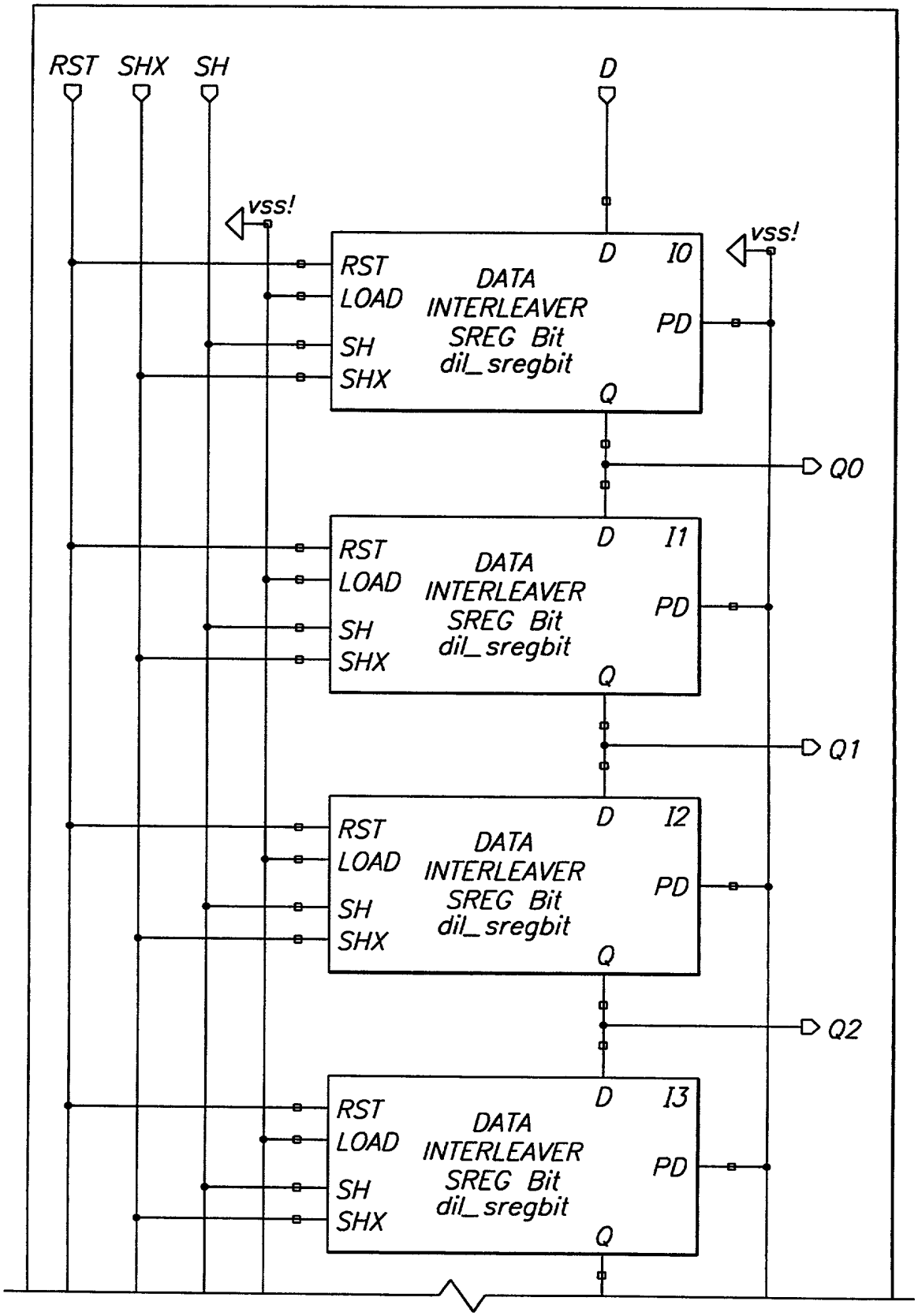

RST
SHX
SH
D
vss!
vss!
RST
LOAD
SH
SHX
DATA
INTERLEAVER
SREG Bit
dil_sregbit
D
I0
PD
Q
Q0
I1
Q1
I2
Q2
I3

Fig 7.1501AA

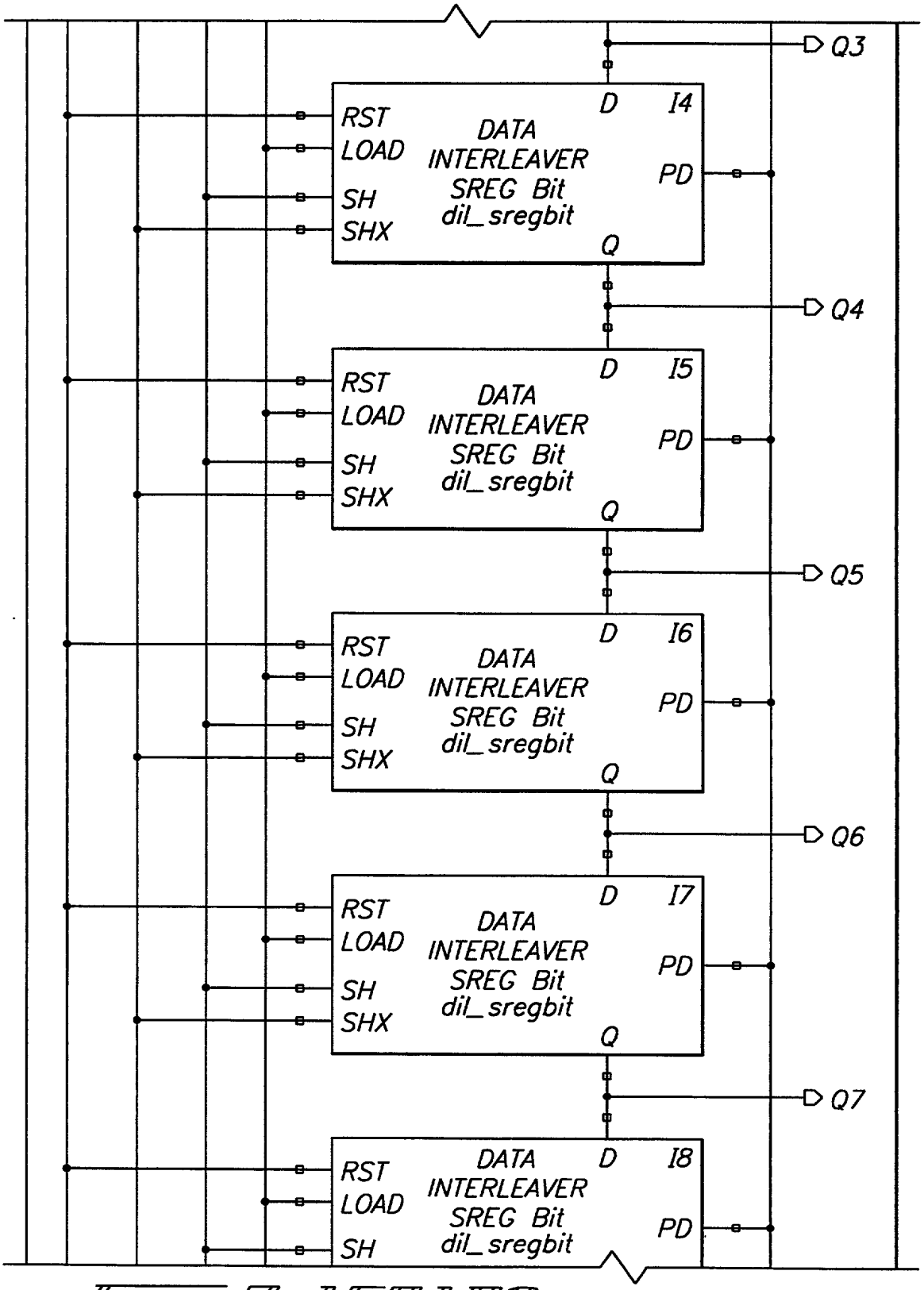


Fig 11.1500.1B(A)

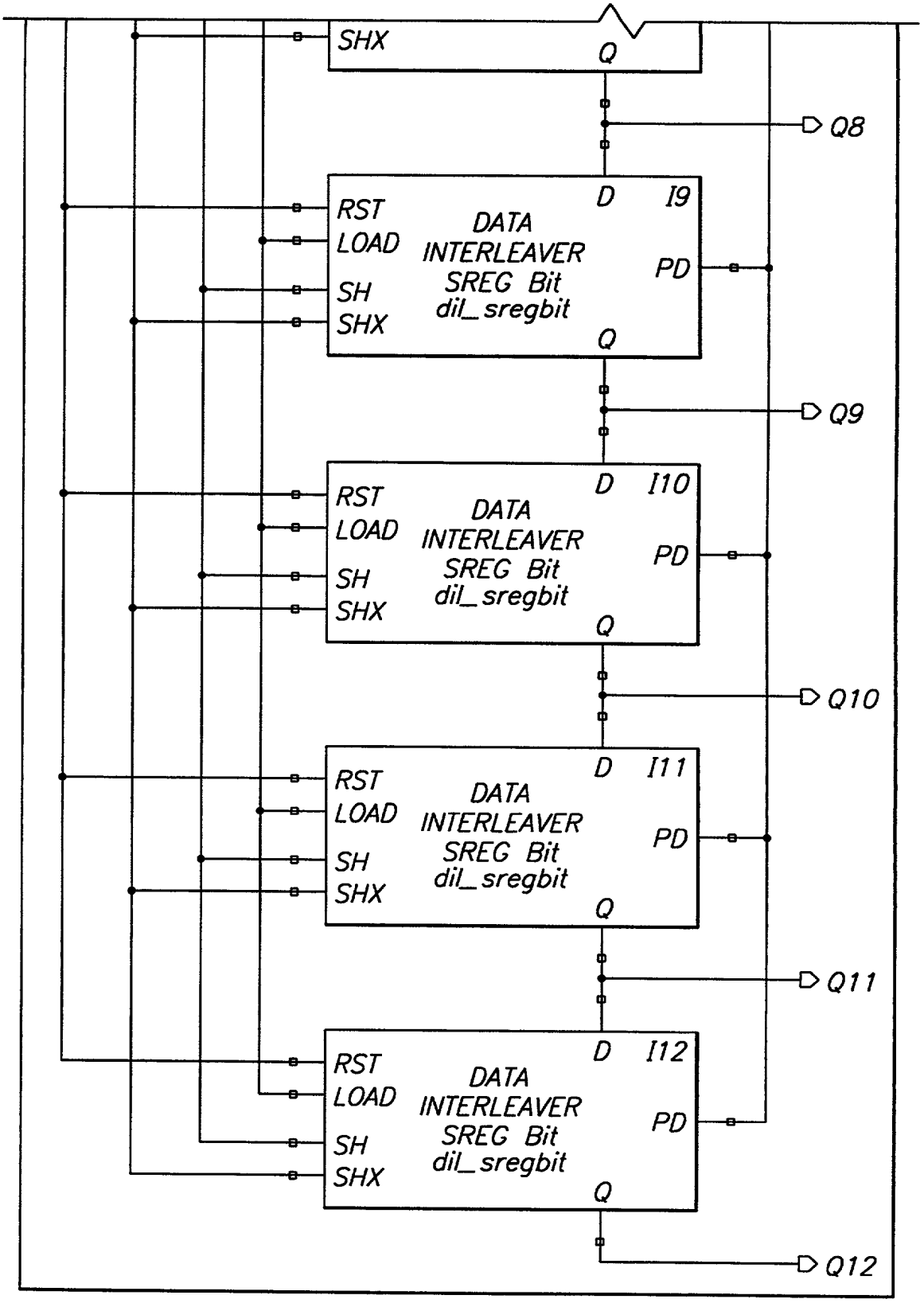


Fig 11.15001CA

1059/3273

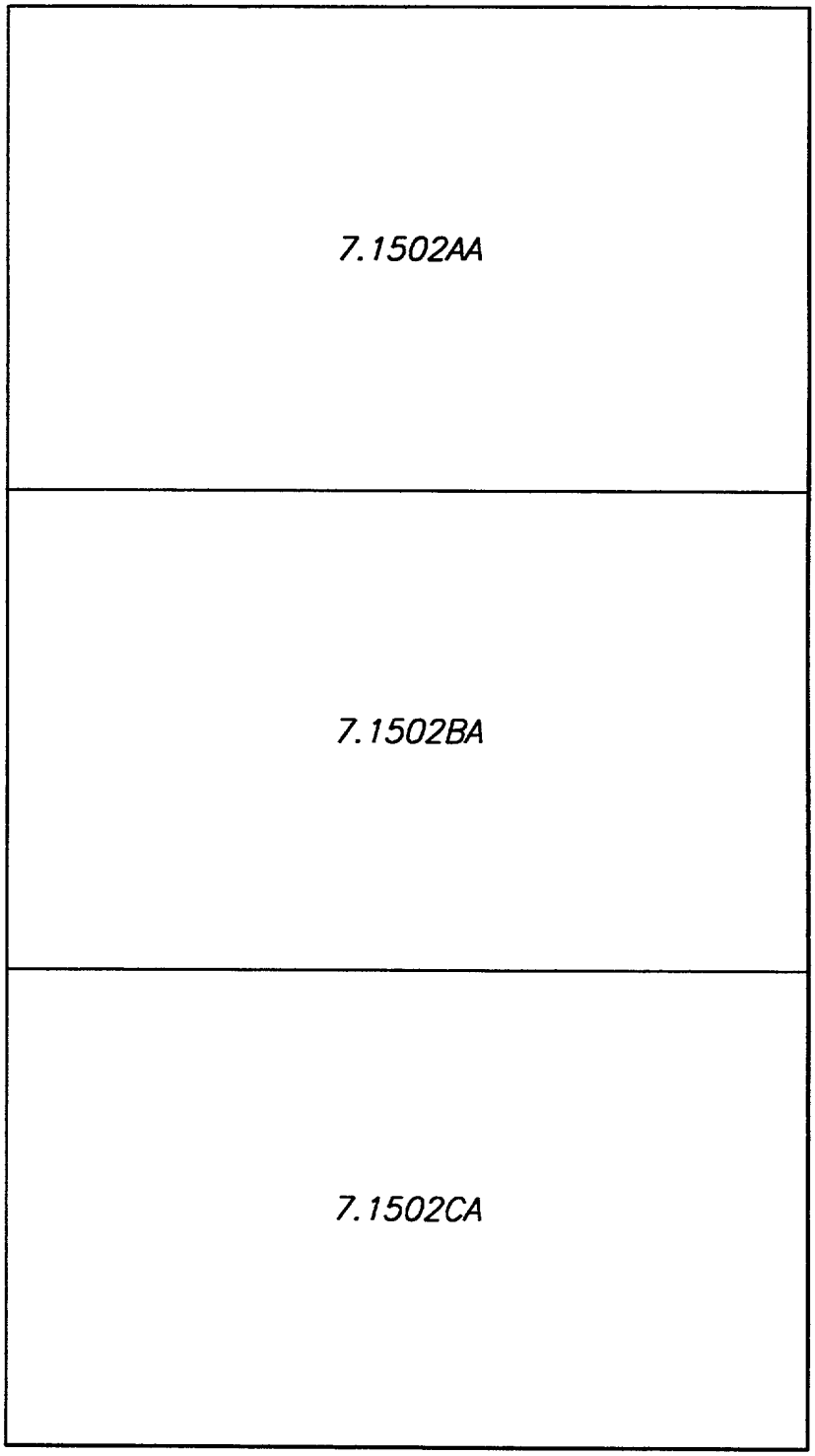


Fig 7.1502

Document Generated: 05/26/2025

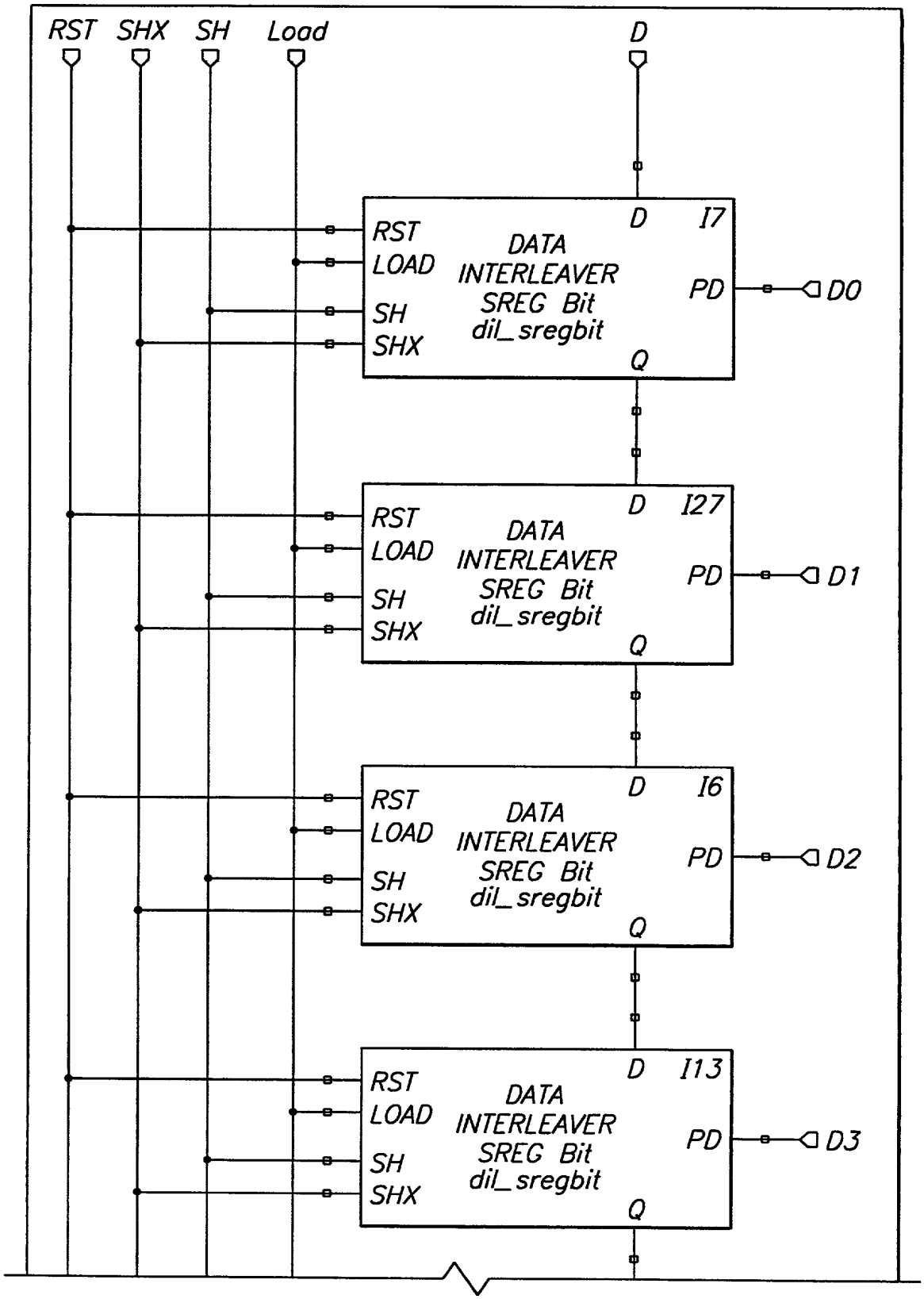

RST
SHX
SH
Load
D
RST
LOAD
SH
SHX
DATA
INTERLEAVER
SREG Bit
dil_sregbit
D
I7
PD
D0
Q
RST
LOAD
SH
SHX
DATA
INTERLEAVER
SREG Bit
dil_sregbit
D
I27
PD
D1
Q
RST
LOAD
SH
SHX
DATA
INTERLEAVER
SREG Bit
dil_sregbit
D
I6
PD
D2
Q
RST
LOAD
SH
SHX
DATA
INTERLEAVER
SREG Bit
dil_sregbit
D
I13
PD
D3
Q

Fig 1.1502AA

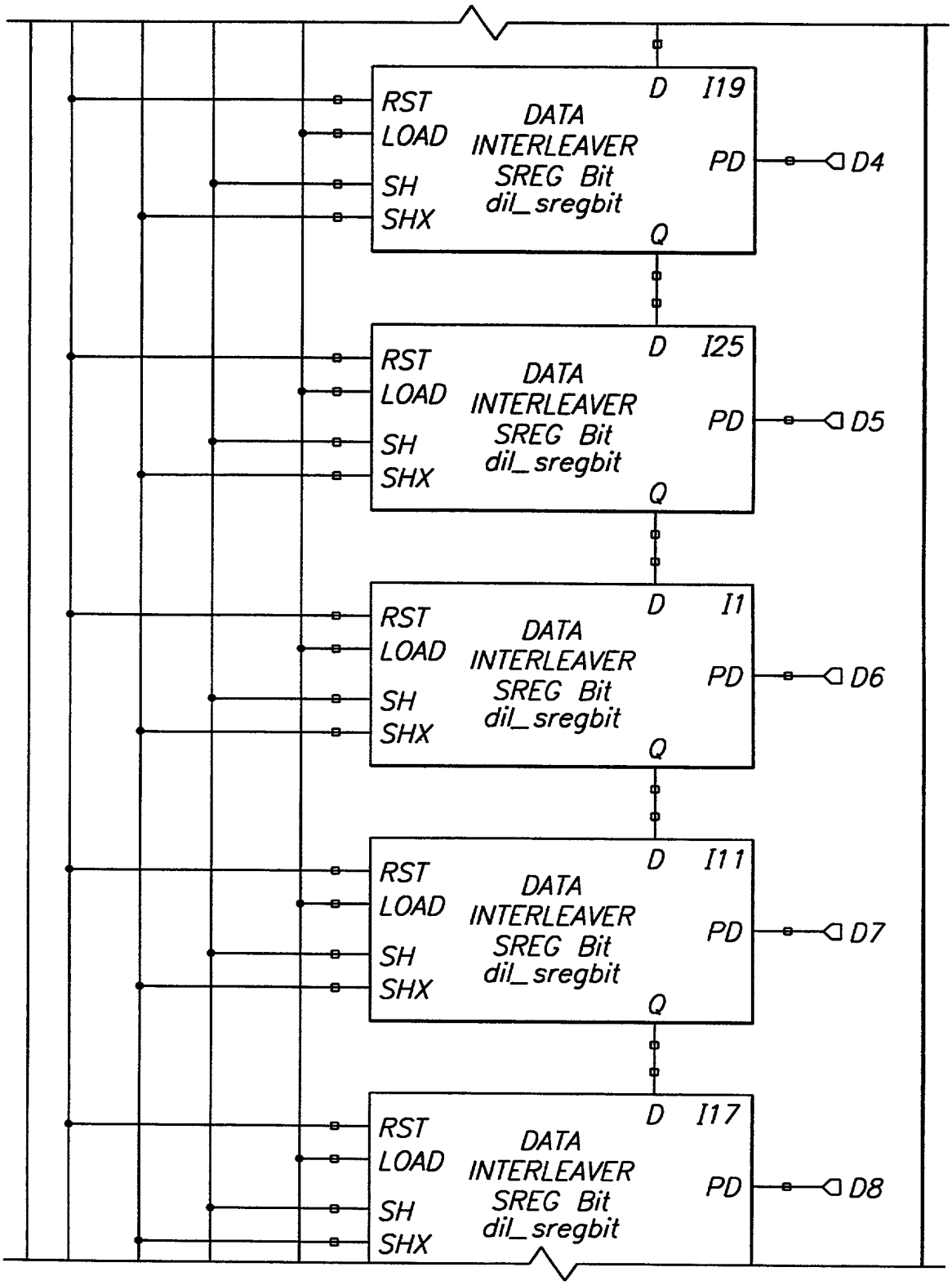


Fig 7.1502BA

Petitioner - Ex. 1015, p. 1061

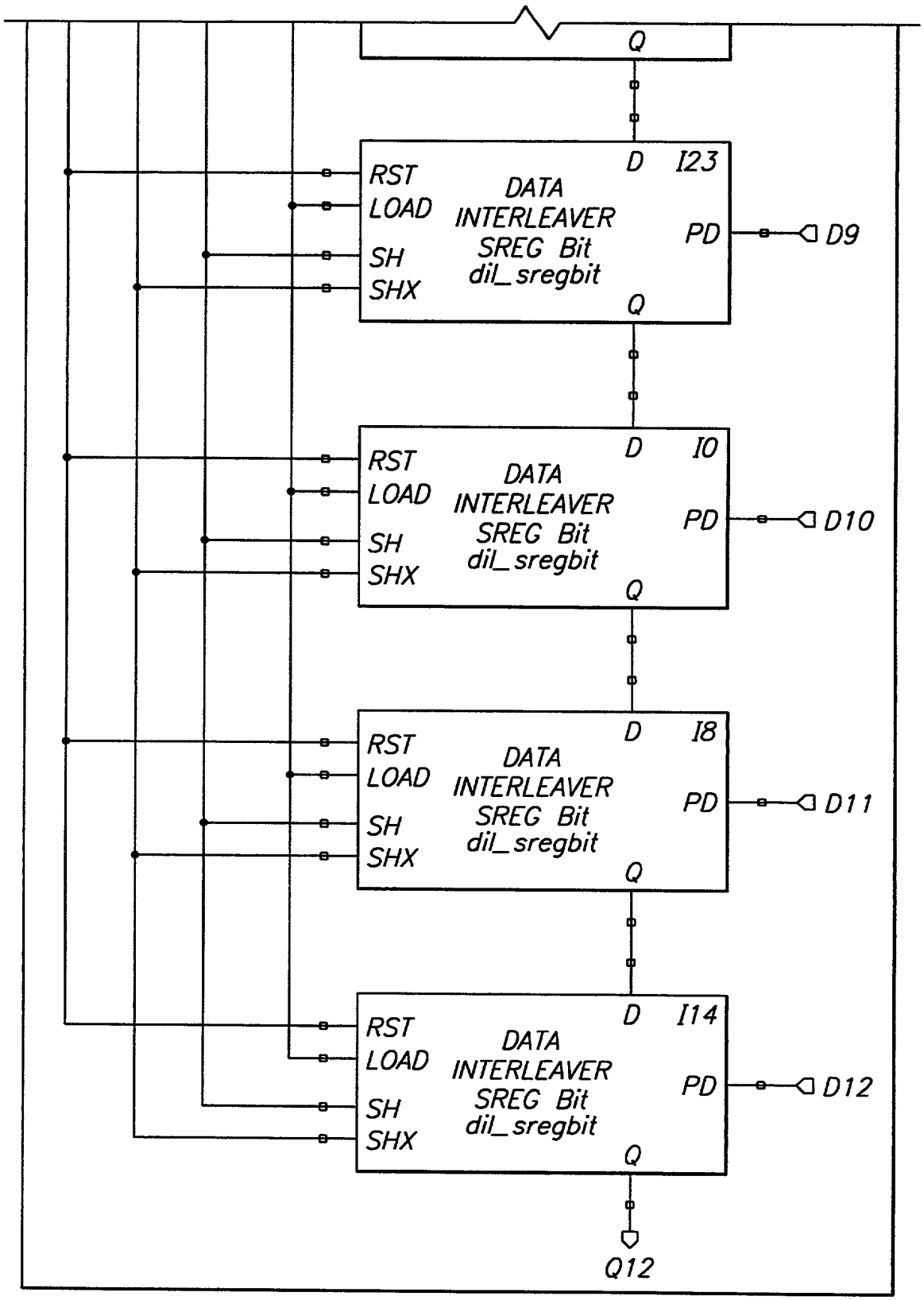


Fig 1.1502CA

PLAINTIFF - EXHIBIT 1062

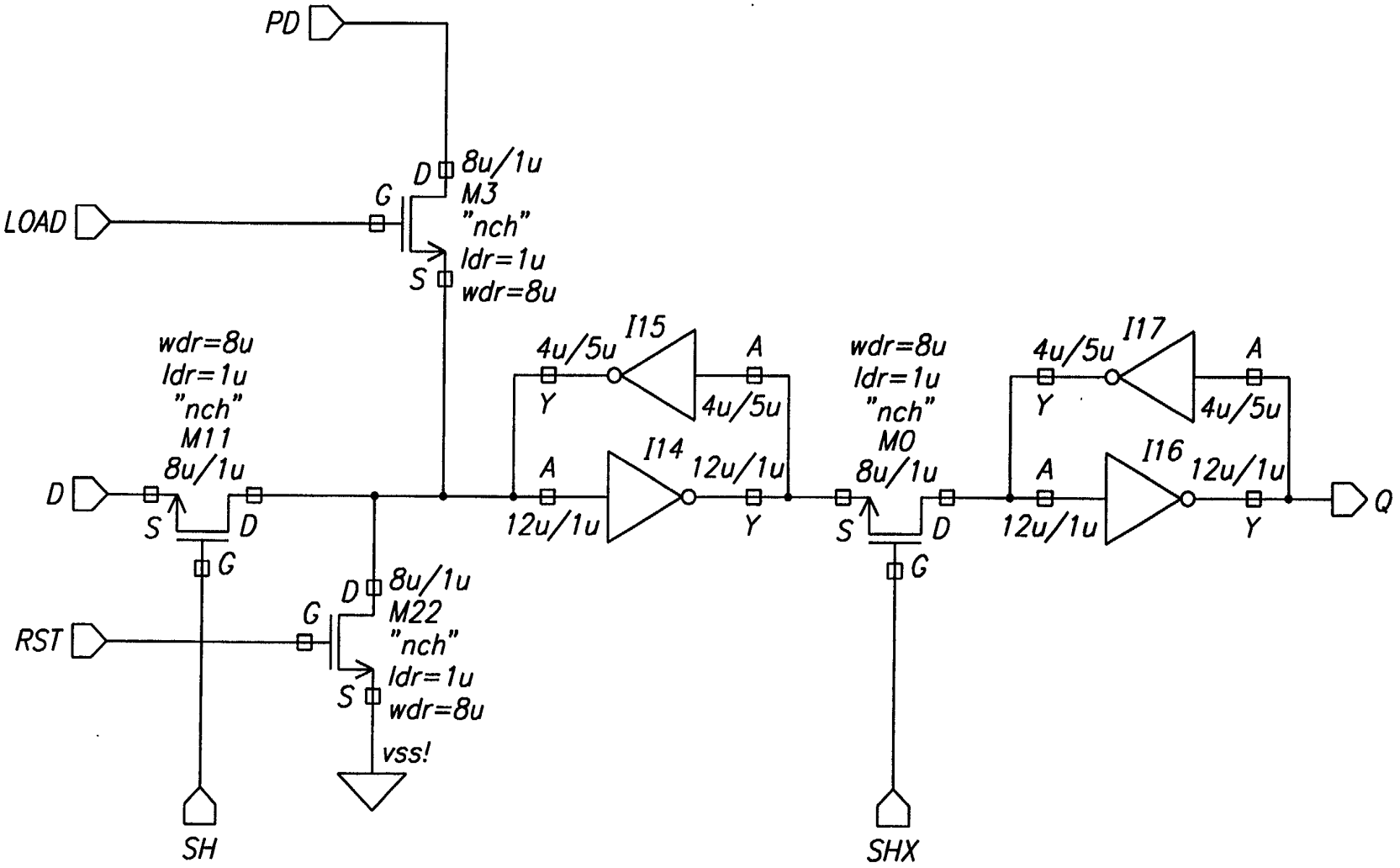


Fig 1.1502001

7.16AA	7.16AB	7.16AC	7.16AD
7.16BA	7.16BB	7.16BC	7.16BD
7.16CA	7.16CB	7.16CC	7.16CD

Fig 7.16

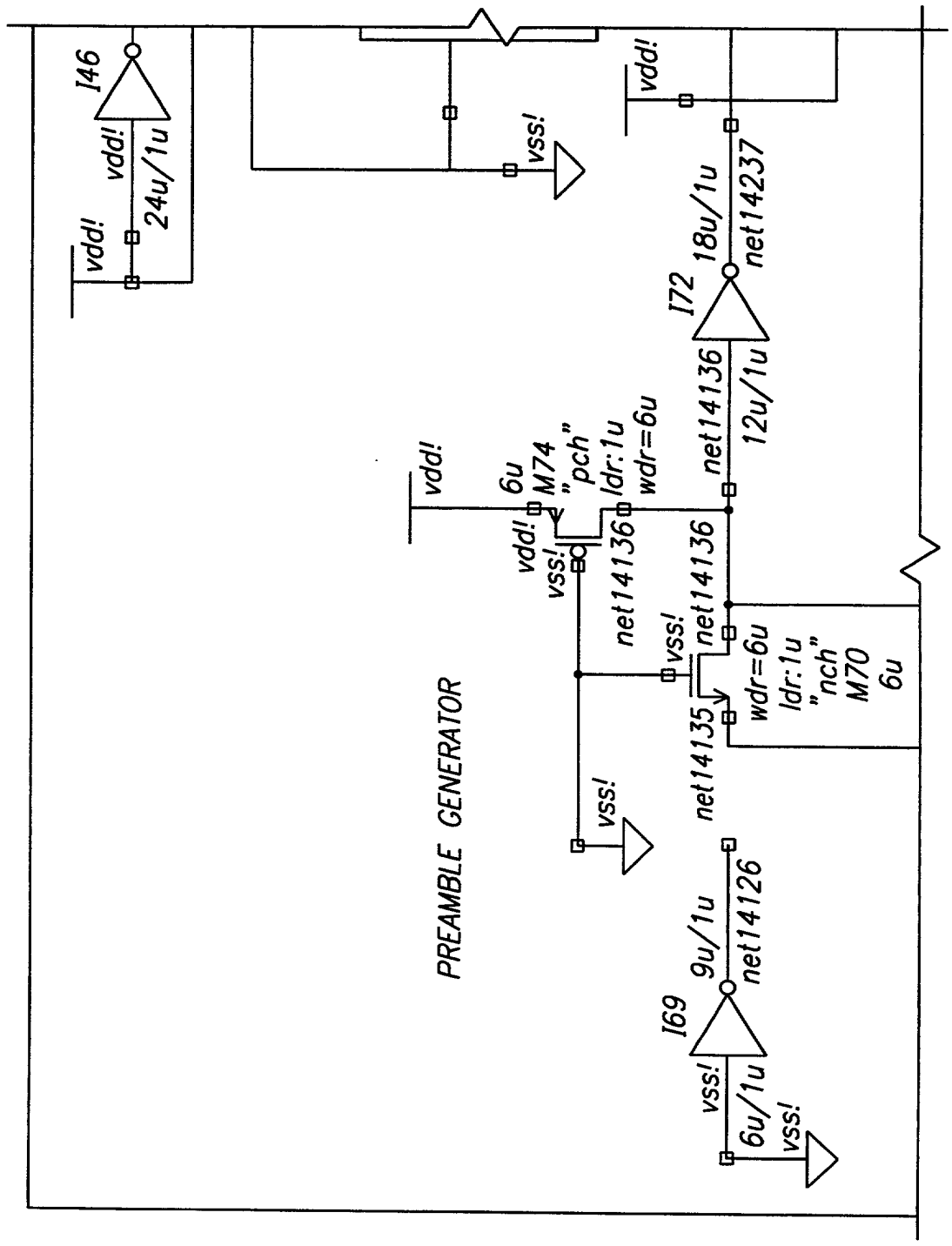

I46
vdd!
24u/1u
vdd!
vss!
vdd!
I72
18u/1u
net14237
net14136
12u/1u
vdd!
6u
M74
"pch"
ldr:1u
wdr=6u
vss!
net14136
net14136
vss!
net14135
wdr=6u
ldr:1u
"nch"
M70
6u
PREAMBLE GENERATOR
vss!
I69
9u/1u
net14126
vss!
6u/1u
vss!

FIG 11 (USAM)

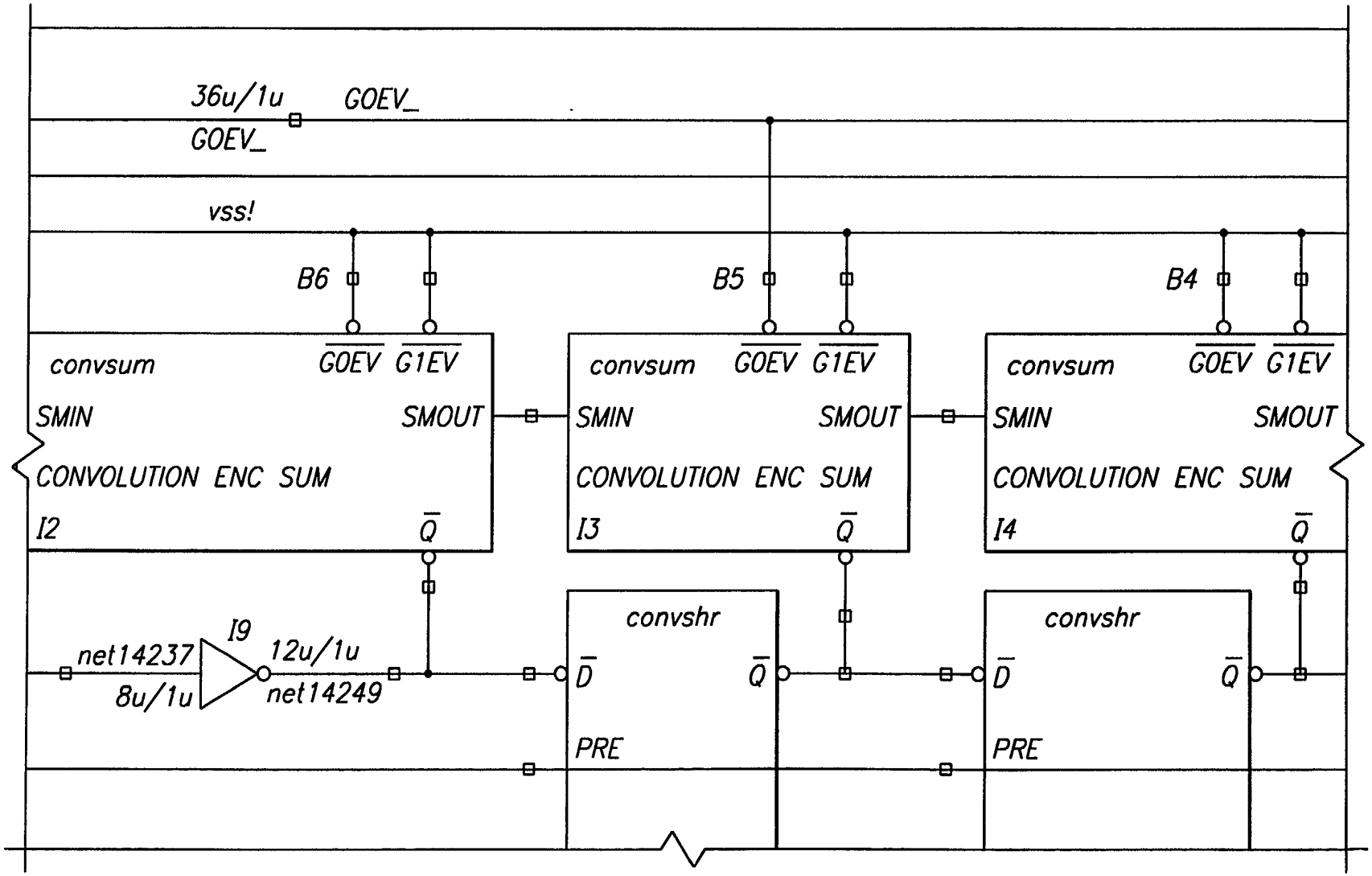
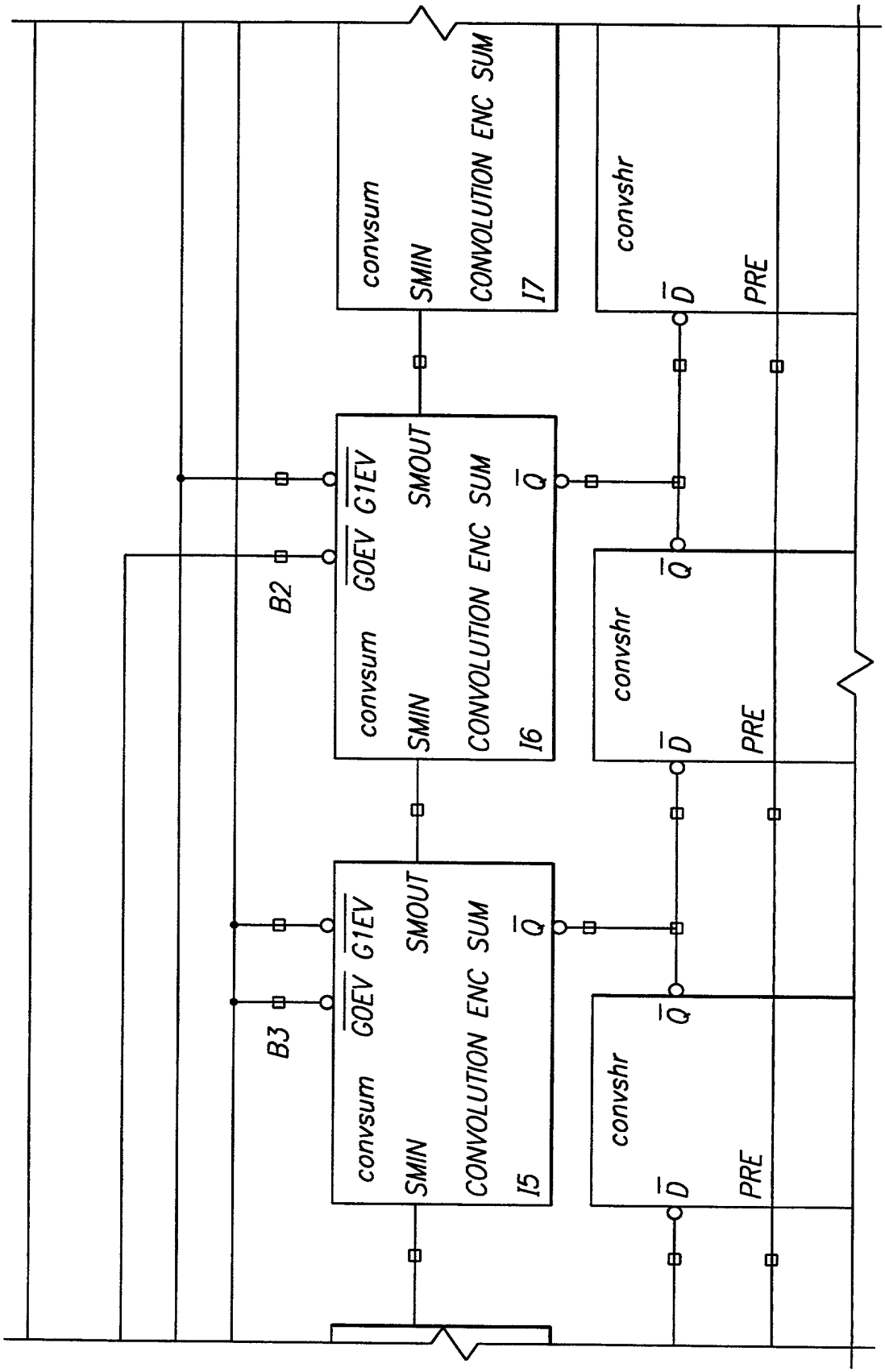
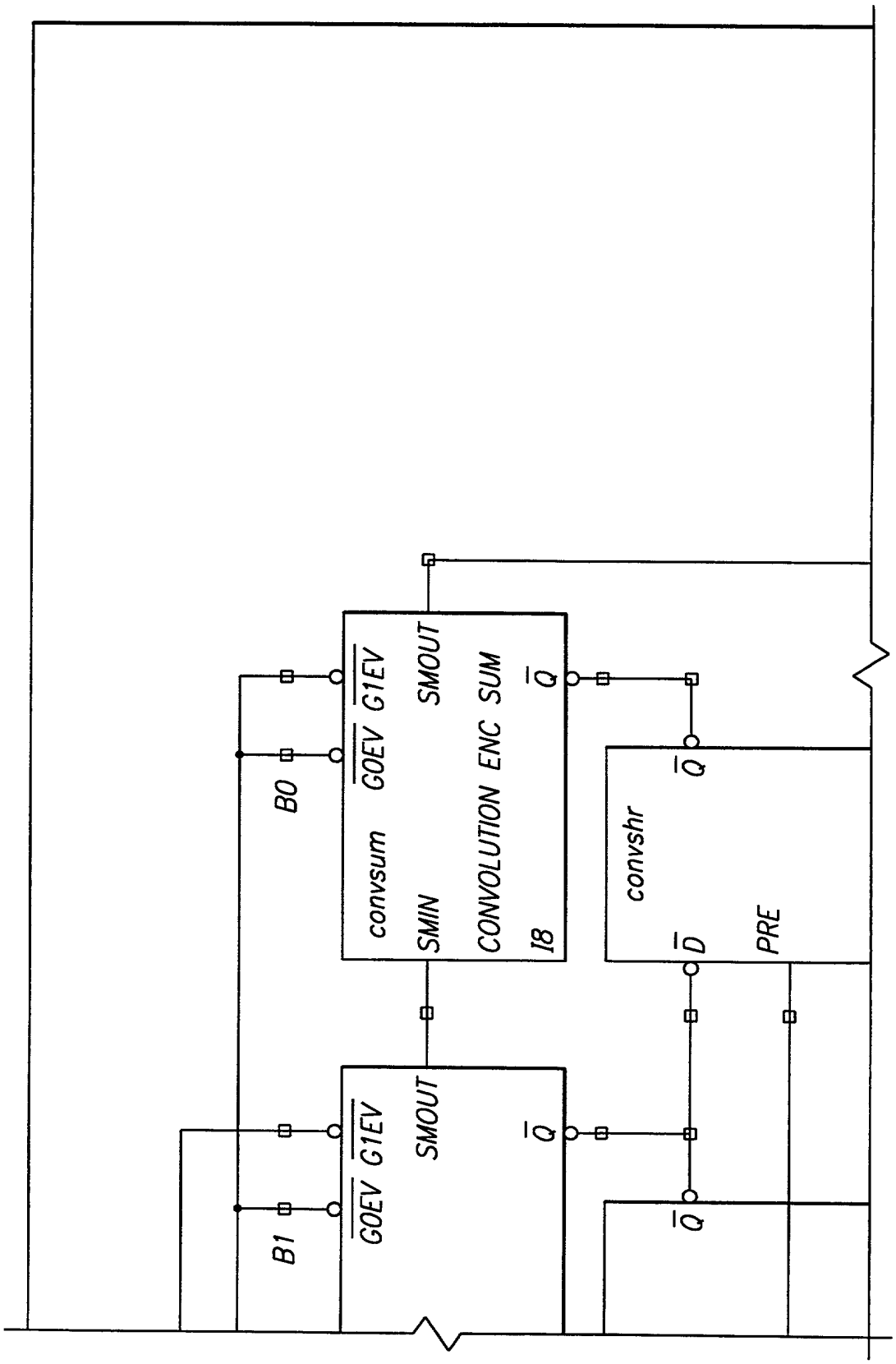

36u/1u
GOEV_
GOEV_
vss!
B6
B5
B4
convsum
GOEV G1EV
SMIN
SMOUT
CONVOLUTION ENC SUM
I2
Q
convsum
GOEV G1EV
SMIN
SMOUT
CONVOLUTION ENC SUM
I3
Q
convsum
GOEV G1EV
SMIN
SMOUT
CONVOLUTION ENC SUM
I4
Q
I9
net14237
8u/1u
12u/1u
net14249
convshr
D
Q
PRE
convshr
D
Q
PRE

Fig 7.16AB



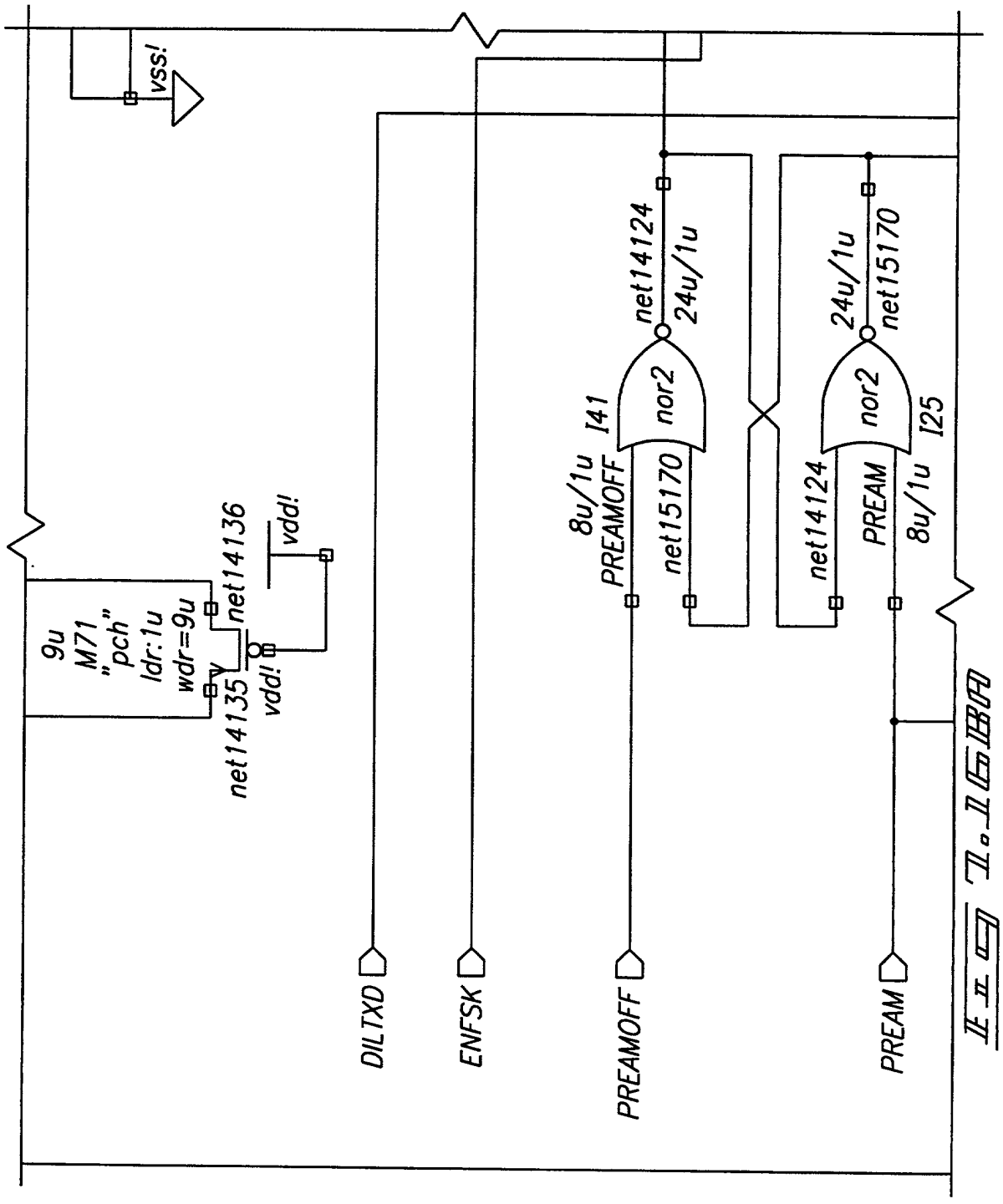
Фиг. 11

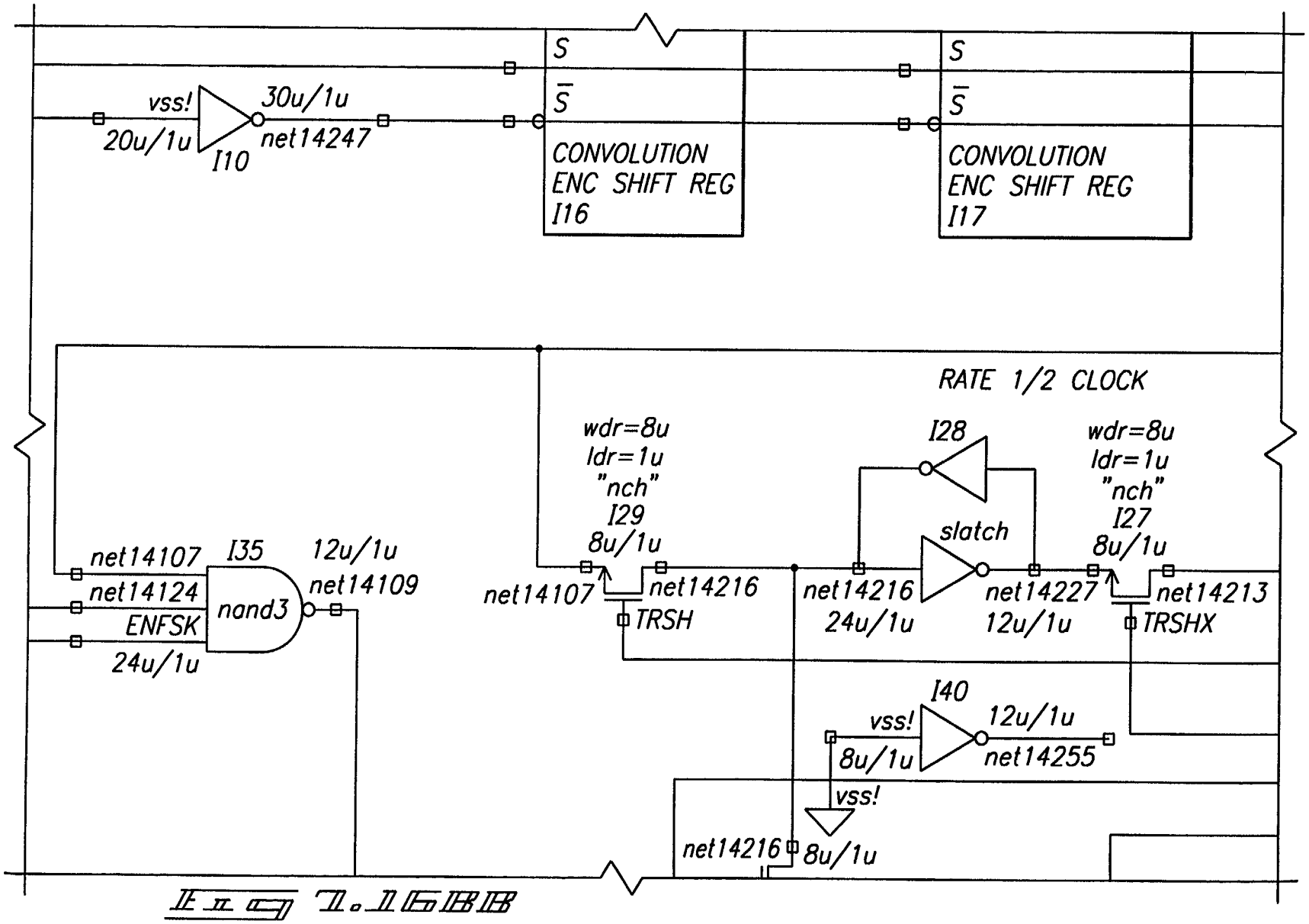
EP 1 150 250 A2

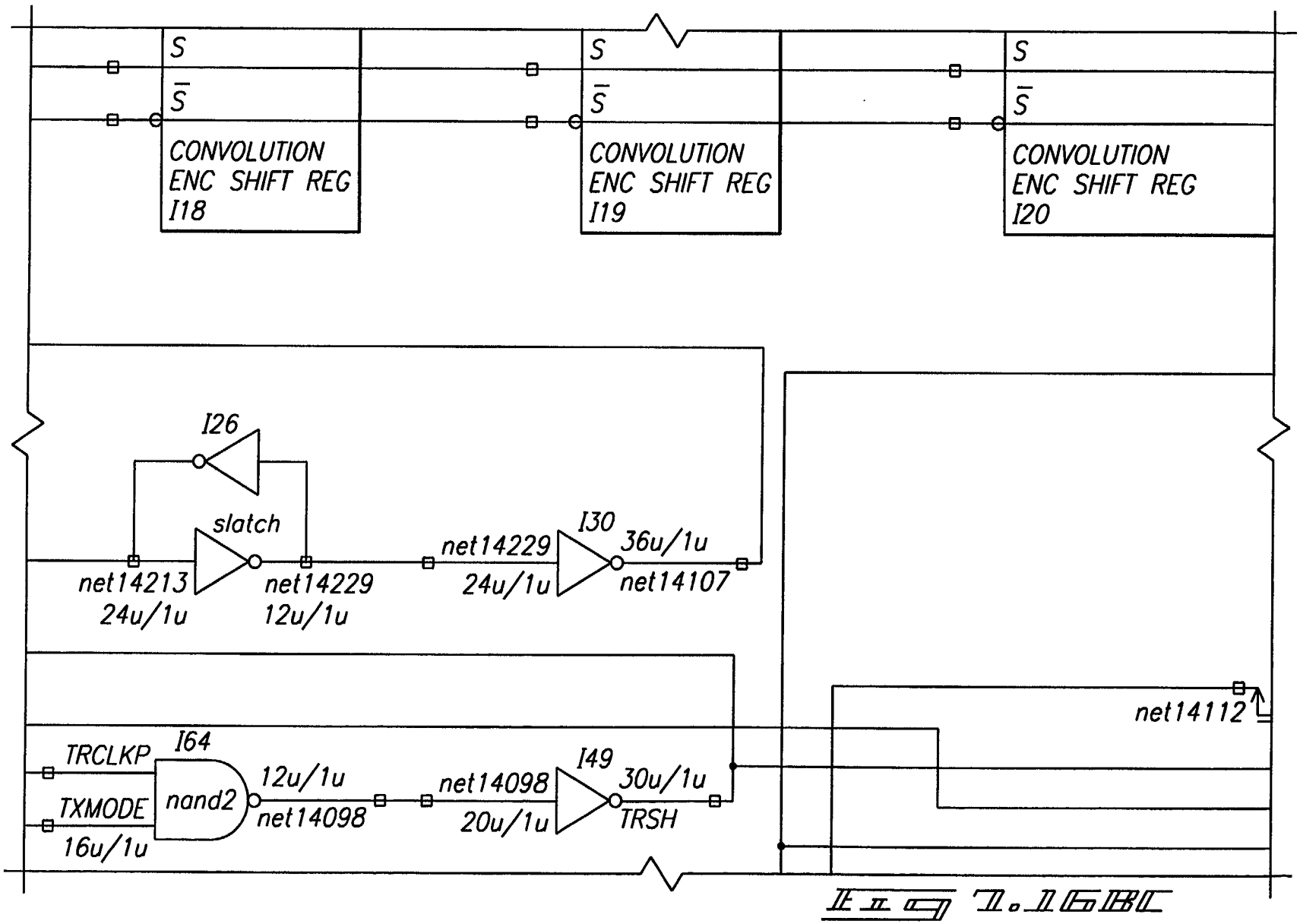


Фиг. 11

FOTTSO: 20020604


vss!
9u
M71
"pch"
ldr:1u
wdr=9u
net14135
net14136
vdd!
vdd!
DILTXD
ENFSK
8u/1u
PREAMOFF
I41
nor2
net14124
24u/1u
net15170
net14124
PREAM
I25
nor2
24u/1u
net15170
8u/1u
PREAM
PREAMOFF


S
S̄
CONVOLUTION
ENC SHIFT REG
I16
CONVOLUTION
ENC SHIFT REG
I17
vss!
20u/1u
I10
30u/1u
net14247
RATE 1/2 CLOCK
wdr=8u
ldr=1u
"nch"
I29
8u/1u
I28
slatch
wdr=8u
ldr=1u
"nch"
I27
8u/1u
net14107
net14124
ENFSK
24u/1u
I35
nand3
12u/1u
net14109
net14107
net14216
TRSH
net14216
24u/1u
net14227
12u/1u
net14213
TRSHX
I40
vss!
8u/1u
12u/1u
net14255
vss!
net14216
8u/1u


S
S̄
CONVOLUTION
ENC SHIFT REG
I18
S
S̄
CONVOLUTION
ENC SHIFT REG
I19
S
S̄
CONVOLUTION
ENC SHIFT REG
I20
I26
slatch
net14213
24u/1u
net14229
12u/1u
net14229
24u/1u
I30
36u/1u
net14107
net14112
TRCLKP
I64
TXMODE
nand2
16u/1u
12u/1u
net14098
net14098
20u/1u
I49
30u/1u
TRSH

Фиг 1.16BC

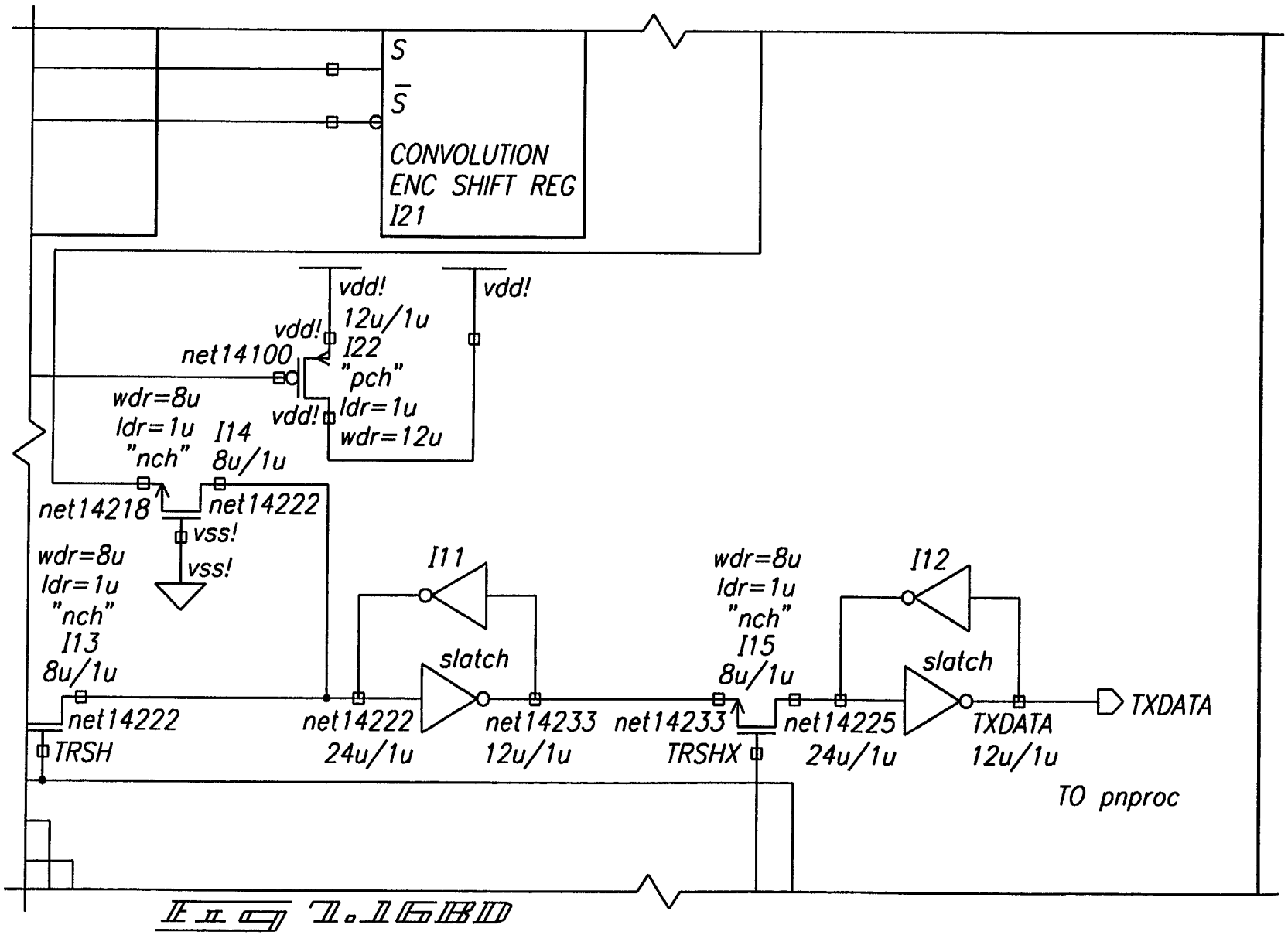
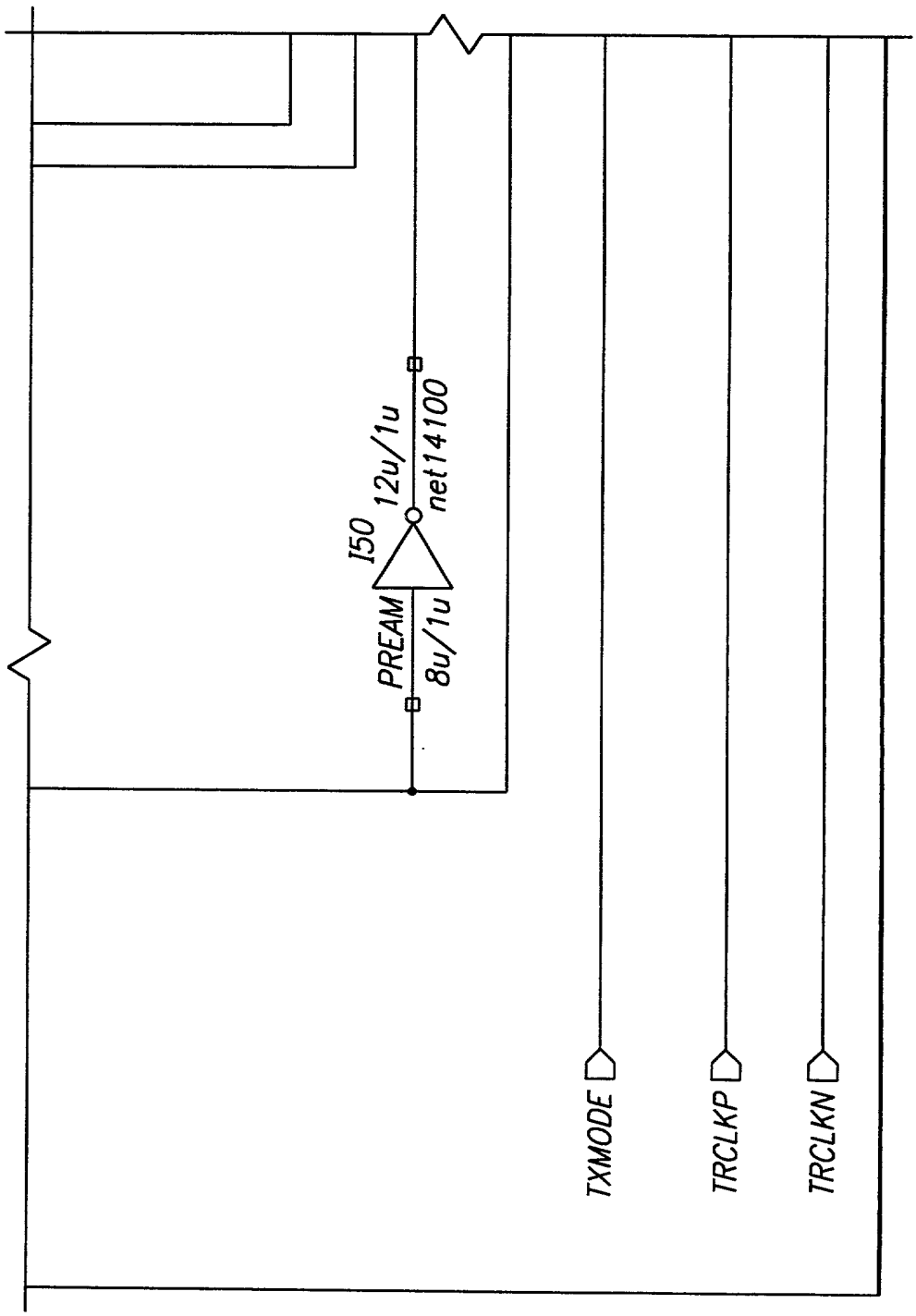

S
S
CONVOLUTION
ENC SHIFT REG
I21
vdd!
12u/1u
I22
"pch"
ldr=1u
wdr=12u
vdd!
vdd!
vdd!
net14100
wdr=8u
ldr=1u
"nch"
I14
8u/1u
net14218
net14222
vss!
vss!
wdr=8u
ldr=1u
"nch"
I13
8u/1u
I11
slatch
wdr=8u
ldr=1u
"nch"
I15
8u/1u
I12
slatch
TXDATA
net14222
TRSH
net14222
24u/1u
net14233
12u/1u
net14233
TRSHX
net14225
24u/1u
TXDATA
12u/1u
TO pnproc
1072/3273

Fig 7.16B

TOTAL-EP0822860



Фиг. 1.15CA

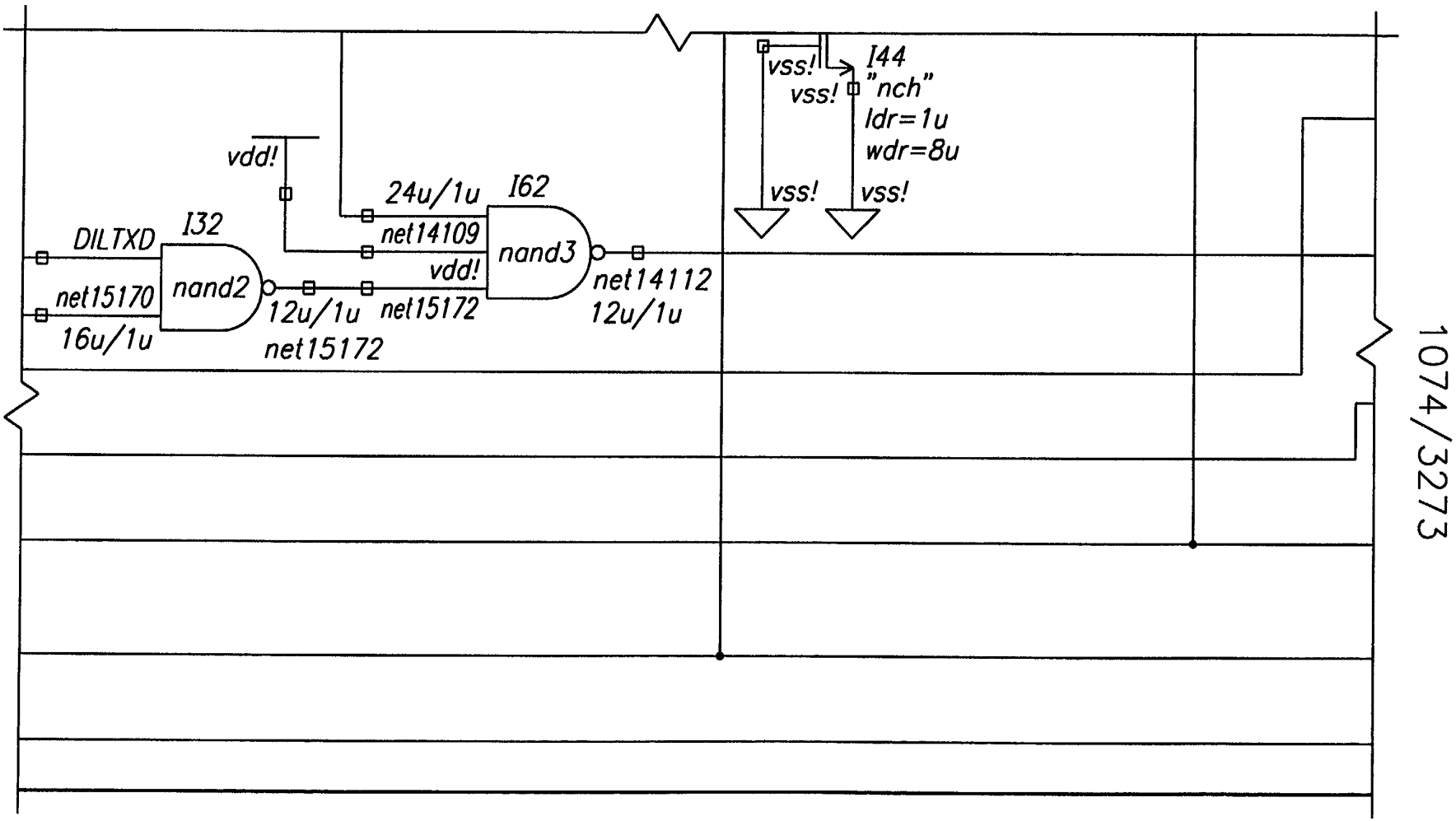
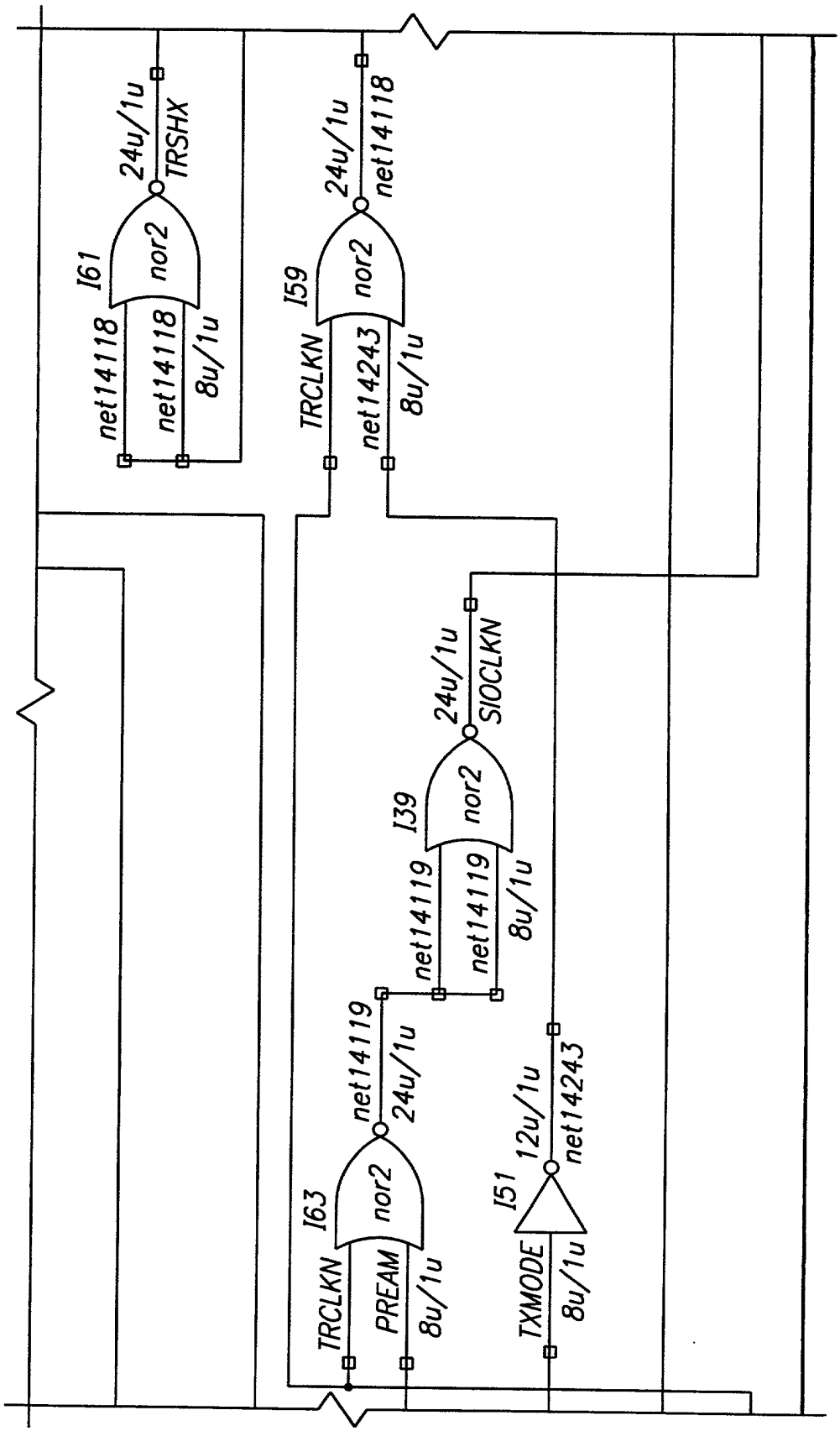
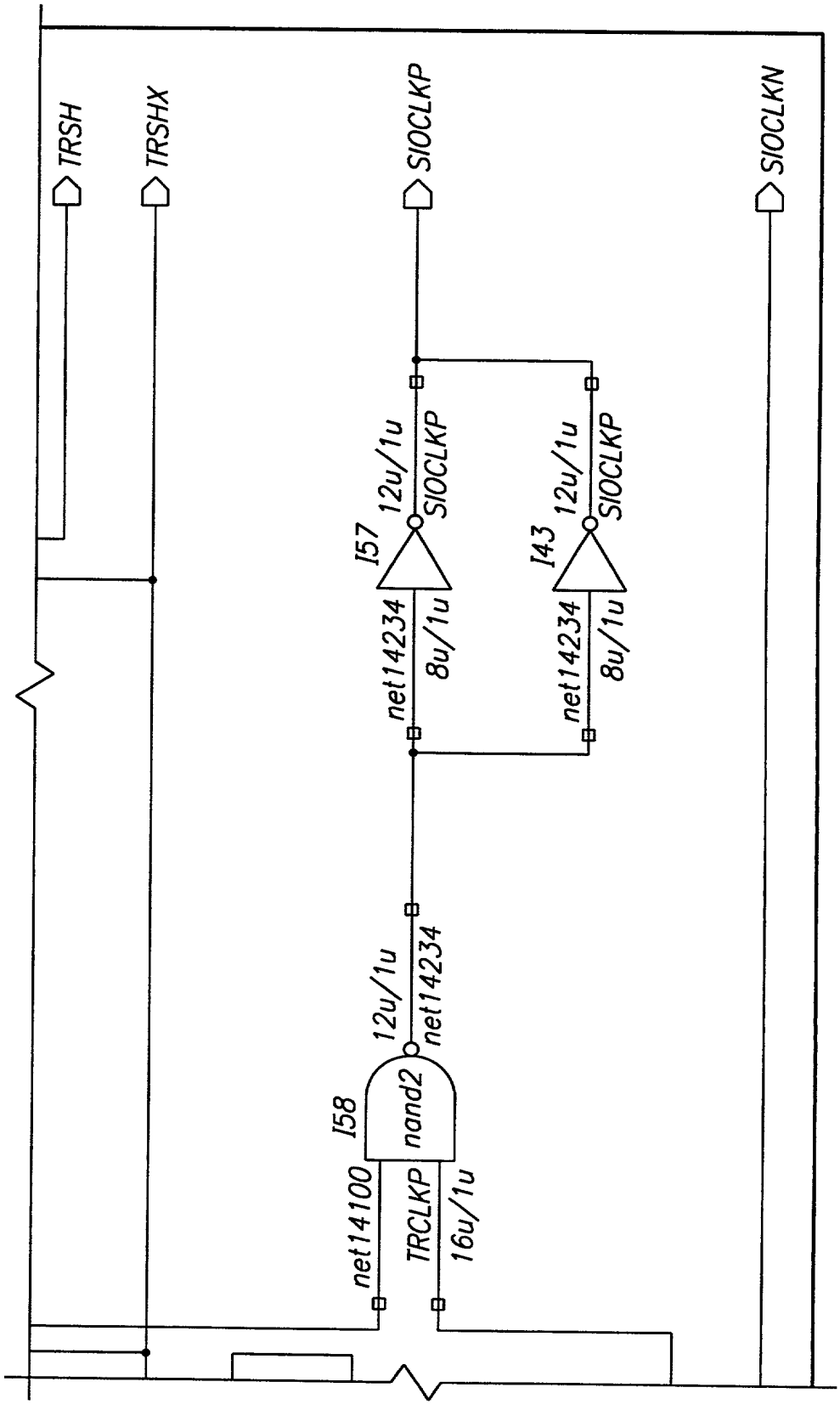

vss!
vss!
I44
"nch"
ldr=1u
wdr=8u
vss!
vss!
vdd!
24u/1u
I62
net14109
nand3
vdd!
net14112
12u/1u
DILTXD
I32
net15170
nand2
12u/1u
net15172
16u/1u
net15172
1074/3273

Fig 7.16CB



Фиг. 1.15С

EXHIBIT 2050 - ESN22860



Фиг. 11

FOR EXAMINATION PURPOSES

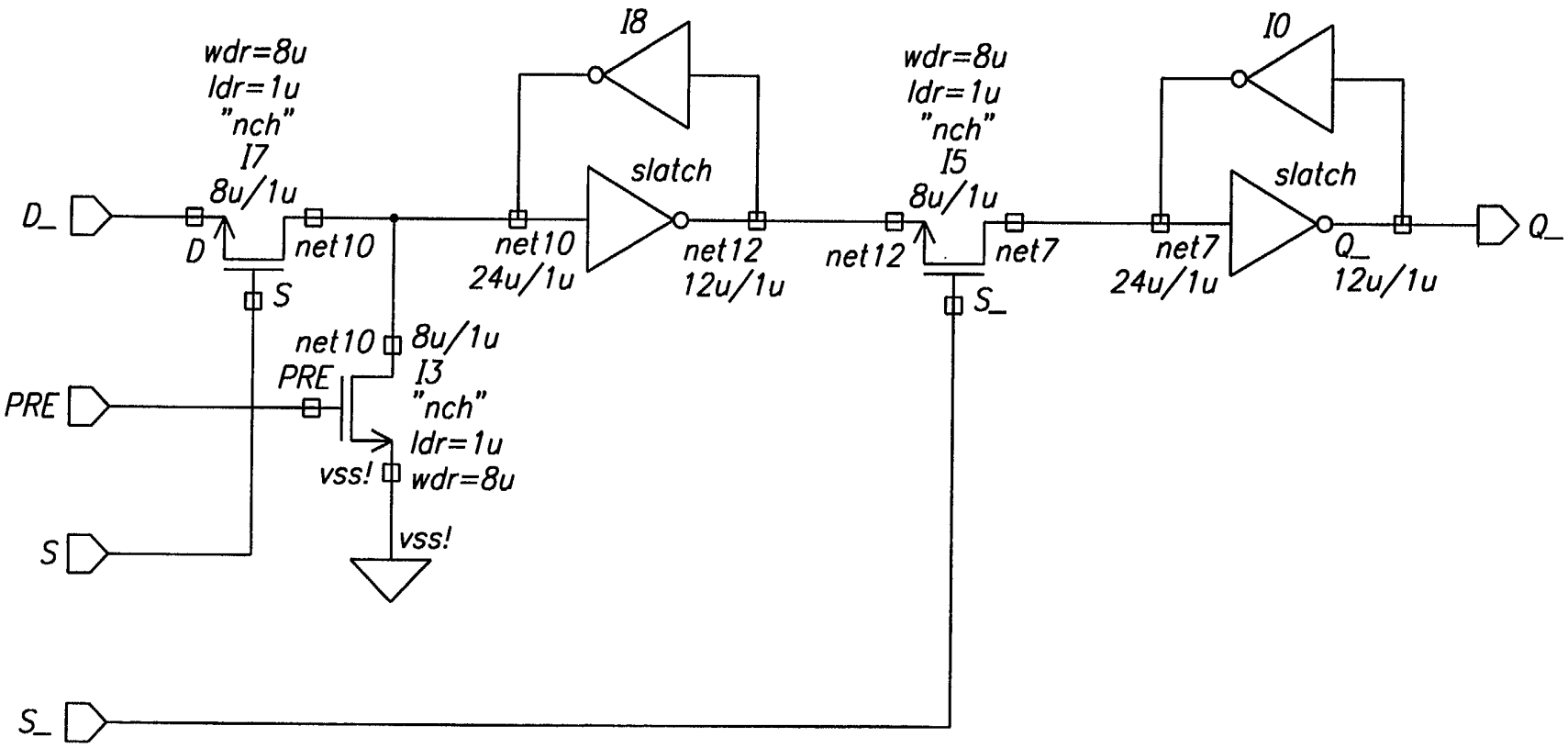

wdr=8u
ldr=1u
"nch"
I7
8u/1u
D_
D
net10
S
I8
slatch
net10
24u/1u
net12
12u/1u
wdr=8u
ldr=1u
"nch"
I5
8u/1u
net12
net7
S_
I0
slatch
net7
24u/1u
Q_
12u/1u
Q_
net10
8u/1u
PRE
I3
"nch"
ldr=1u
vss!
wdr=8u
vss!
PRE
S
S_

Fig 1.1601

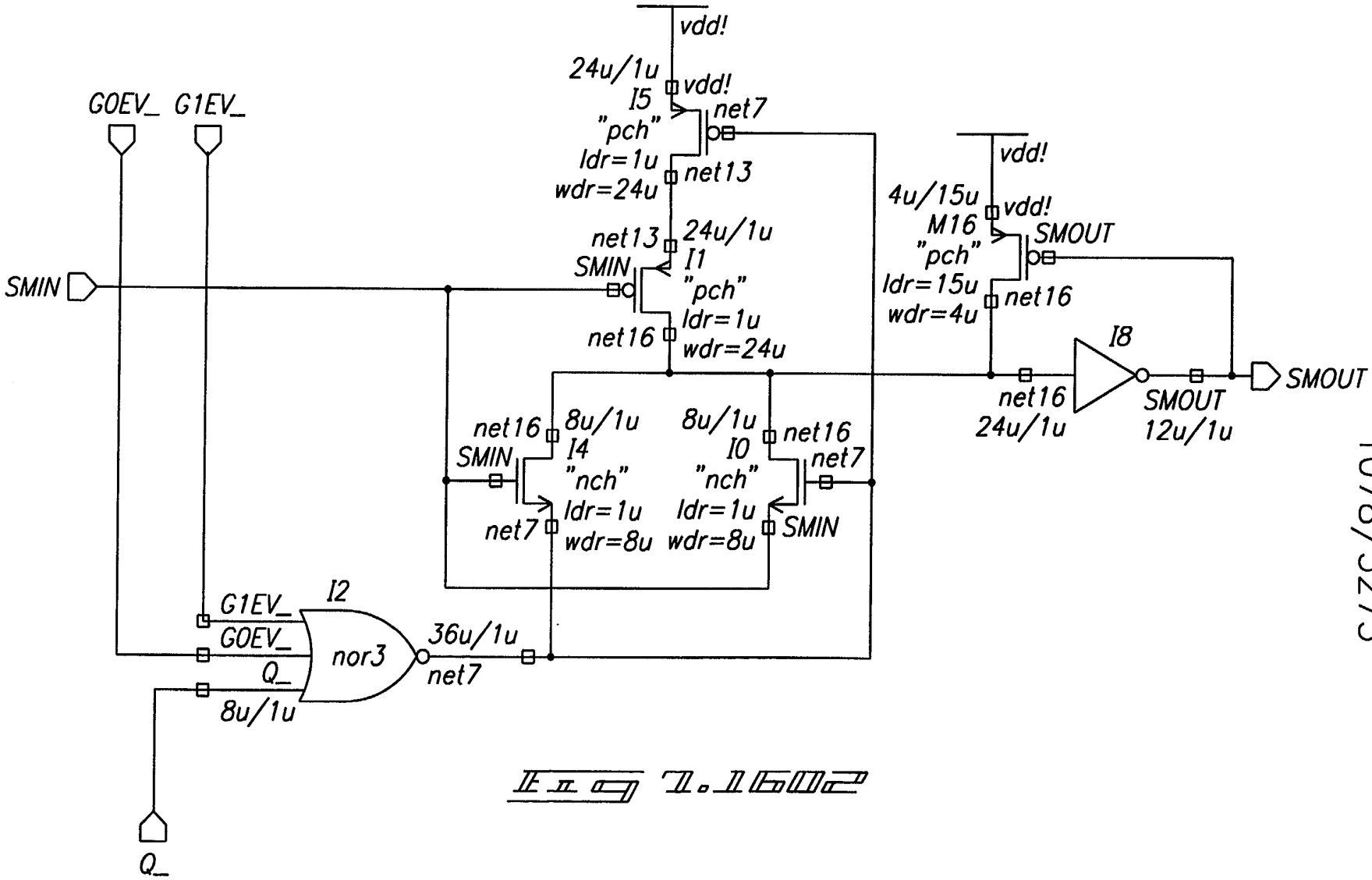


Fig 1.16b2

1078/3273

T0T190*E9028860

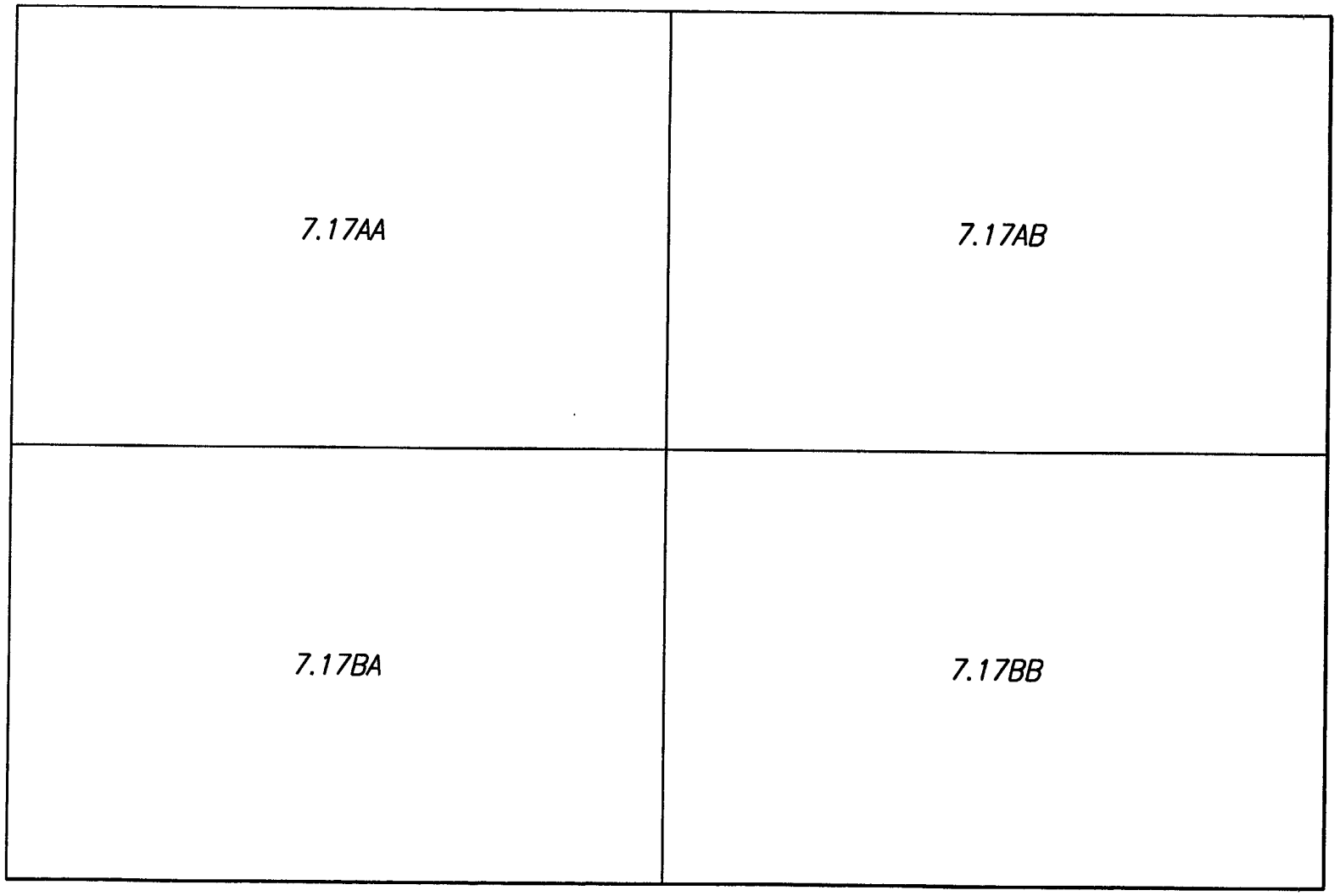


Fig 7.17

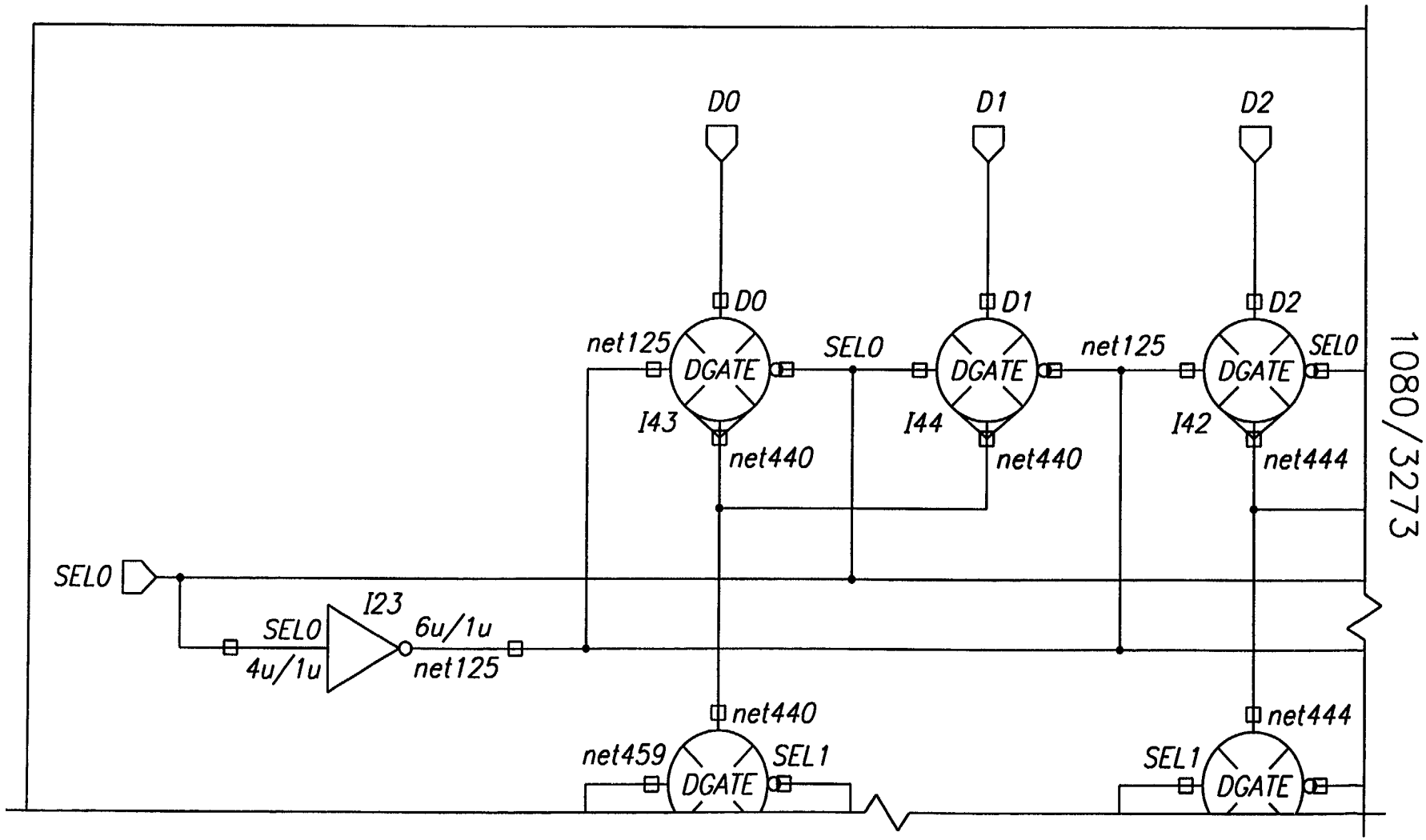
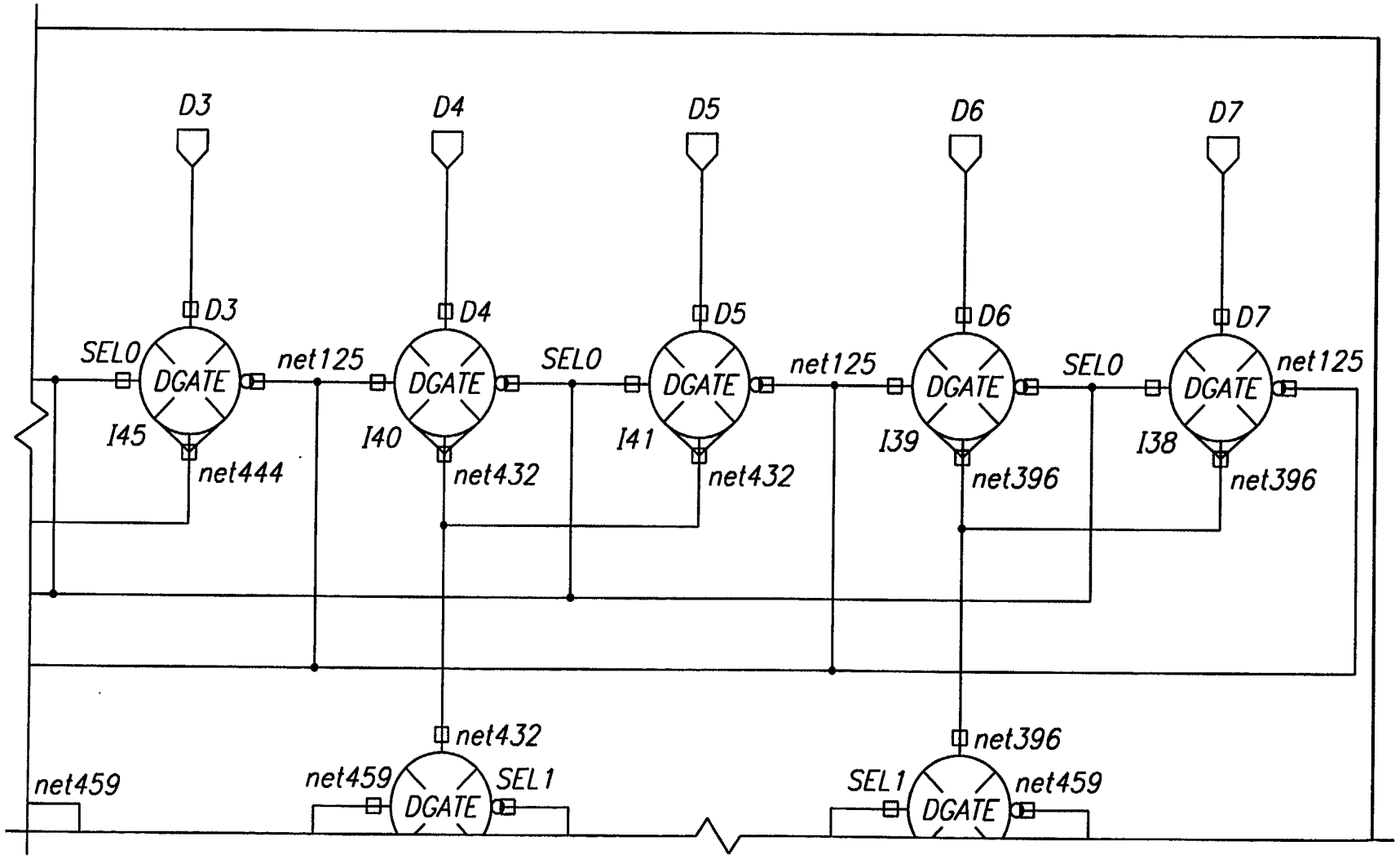

D0
D1
D2
D0
D1
D2
net125
DGATE
SEL0
DGATE
net125
DGATE
SEL0
I43
I44
I42
net440
net440
net444
SEL0
I23
SEL0
6u/1u
4u/1u
net125
net440
net444
net459
SEL1
DGATE
SEL1
DGATE
1080/3273

Fig 3.11AA



1081/3273

Fig 7.17AB

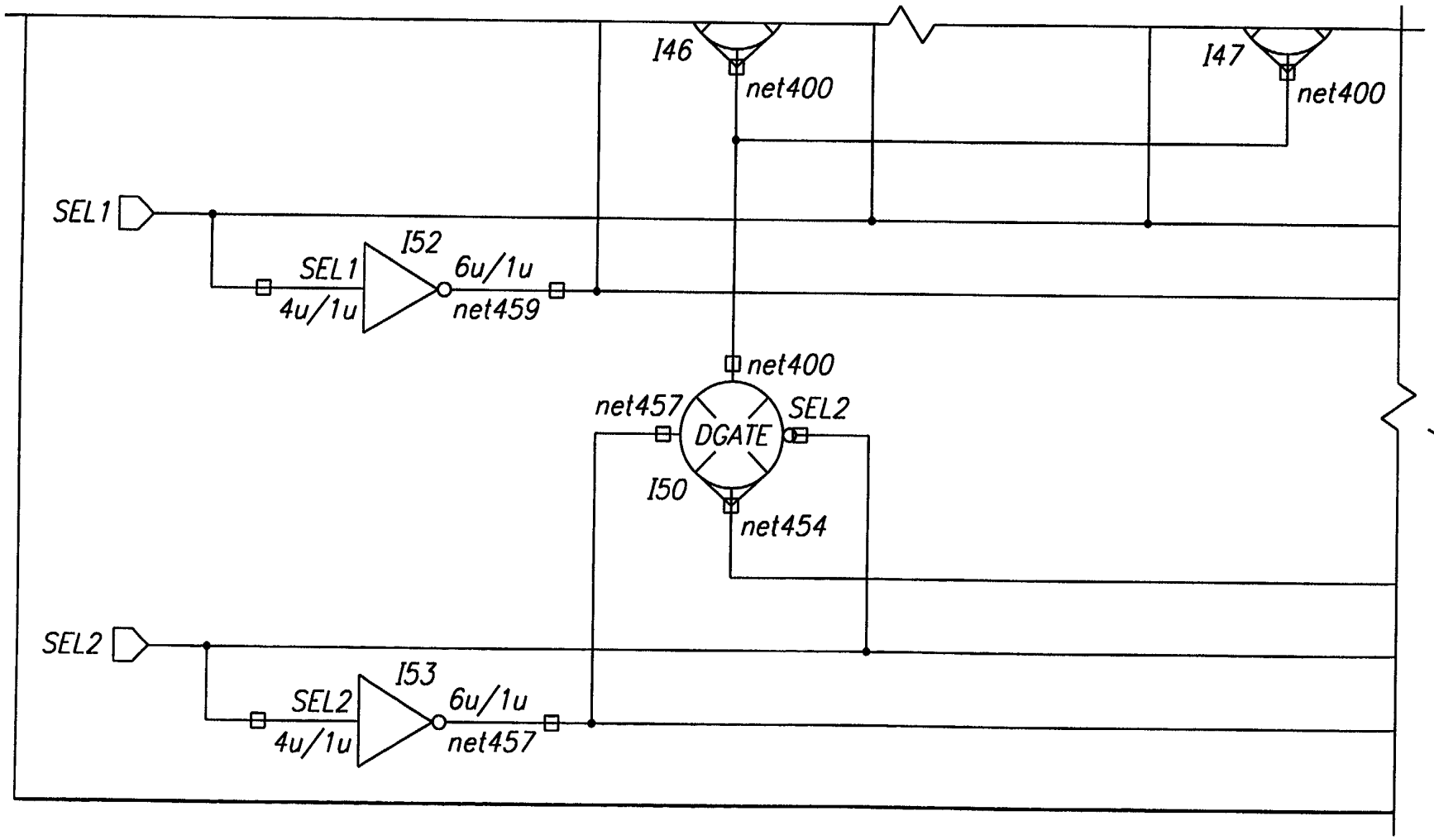
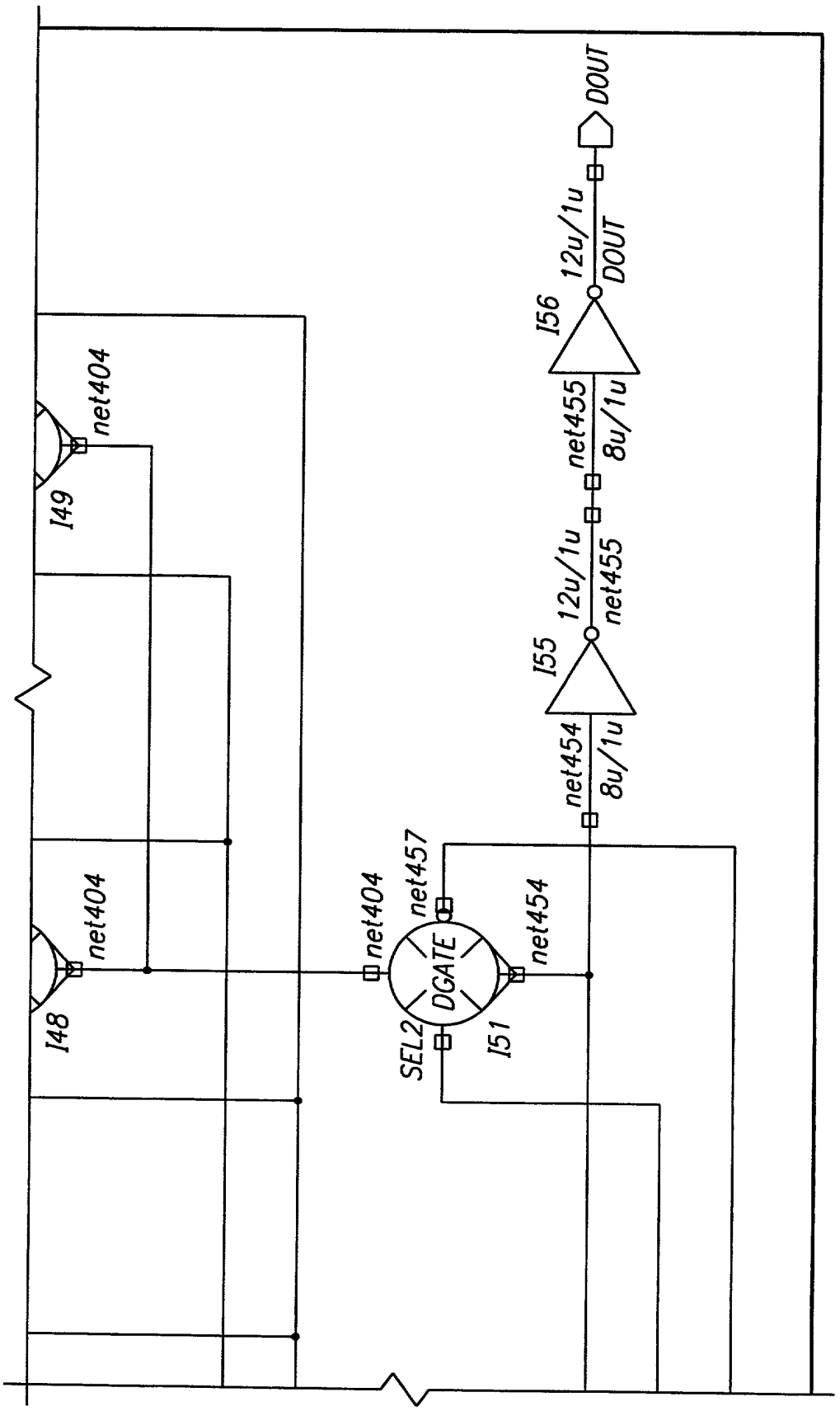


Fig 1.11 (PRIOR ART)



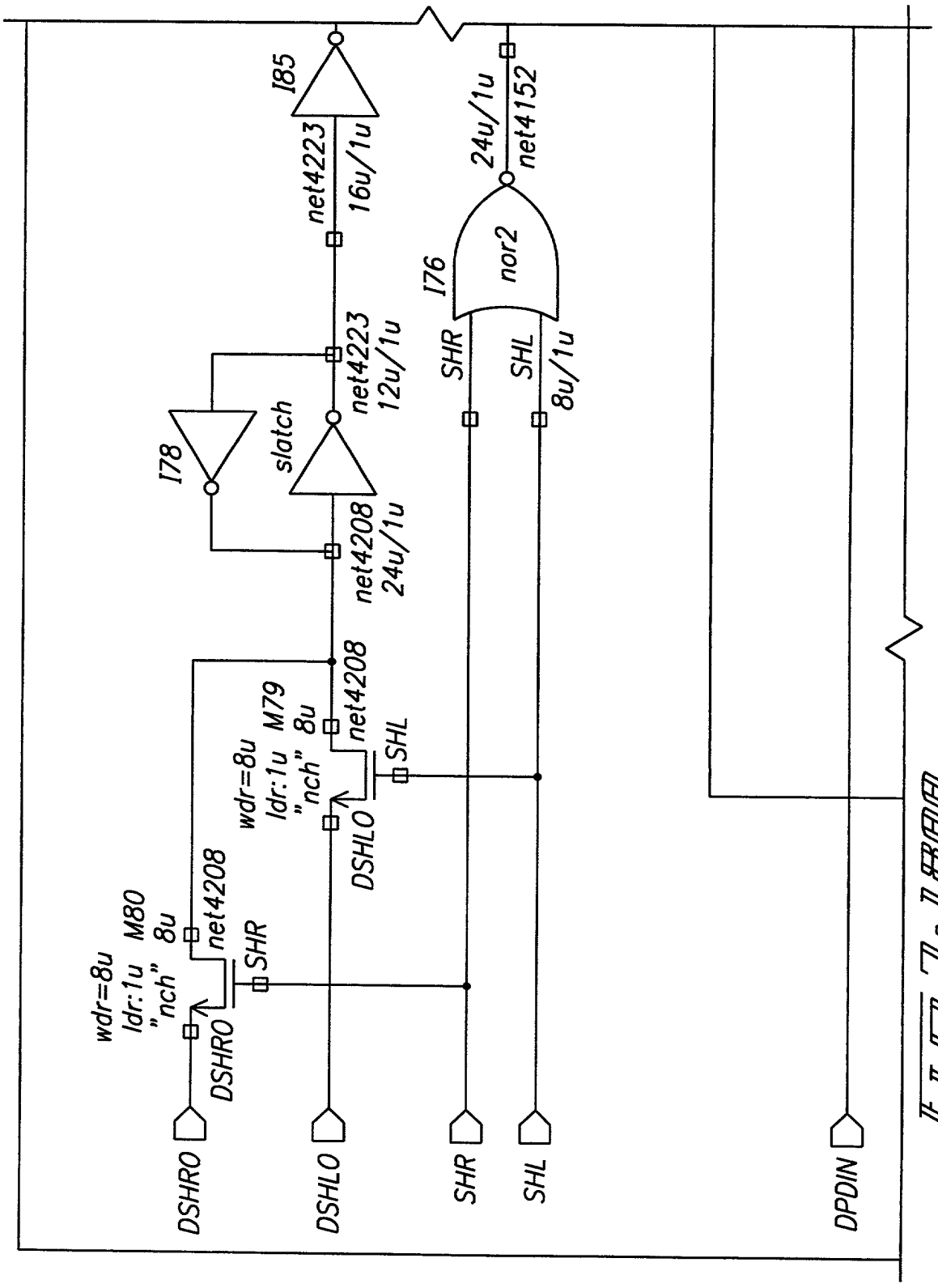
ФИГ. 11

Apple Exhibit 1002

EP 0 232 860

7.18AA	7.18AB	7.18AC
7.18BA	7.18BB	7.18BC
7.18CA	7.18CB	7.18CC

Fig 7.18


I85
net4223
16u/1u
24u/1u
net4152
I76
nor2
SHR
SHL
8u/1u
I78
slatch
net4223
12u/1u
net4208
24u/1u
net4208
M79
8u
wdr=8u
ldr:1u
"nch"
SHL
DSHLO
M80
8u
wdr=8u
ldr:1u
"nch"
net4208
SHR
DSHRO
DSHRO
DSHLO
SHR
SHL
DPDIN

Фиг. 11

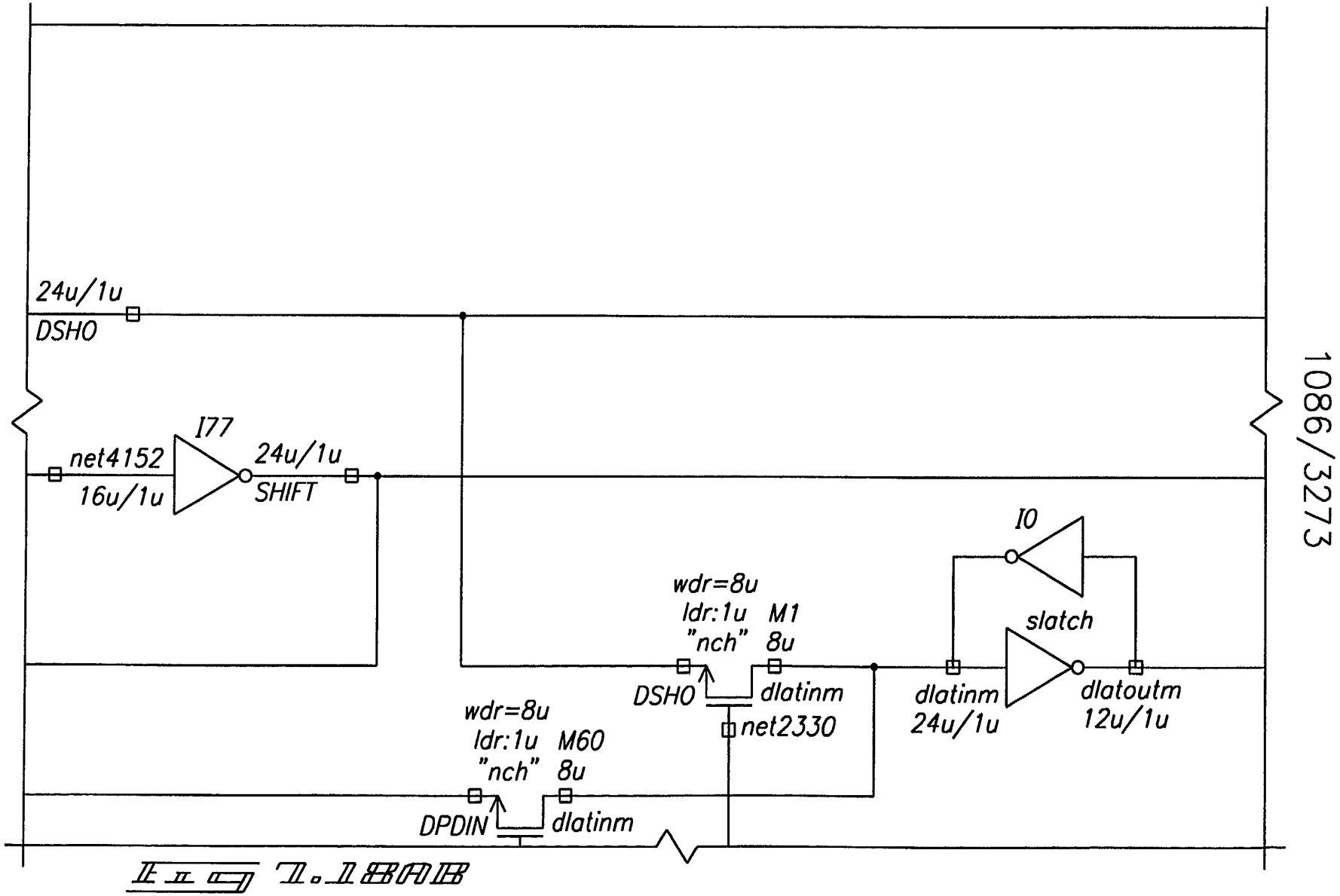
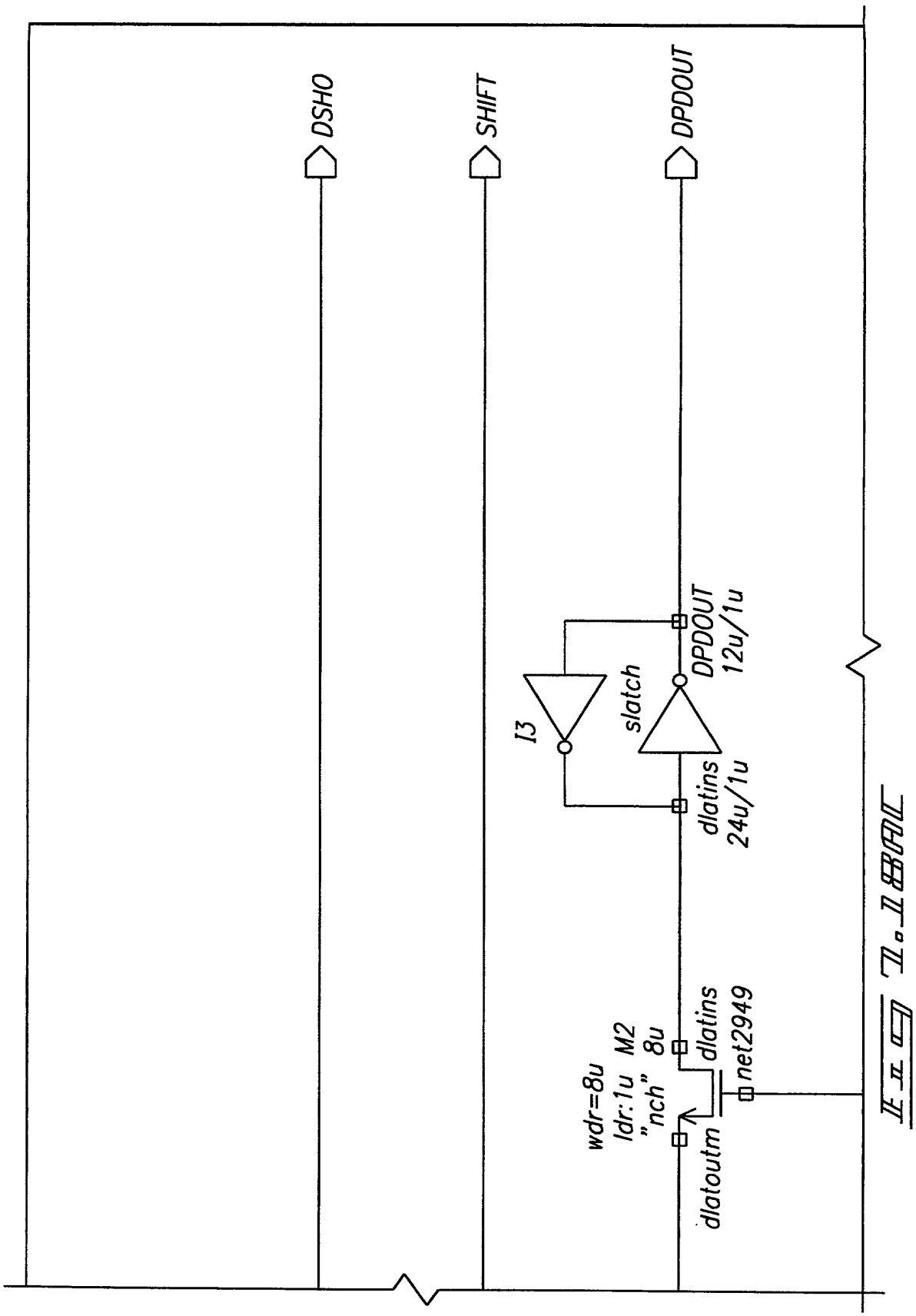
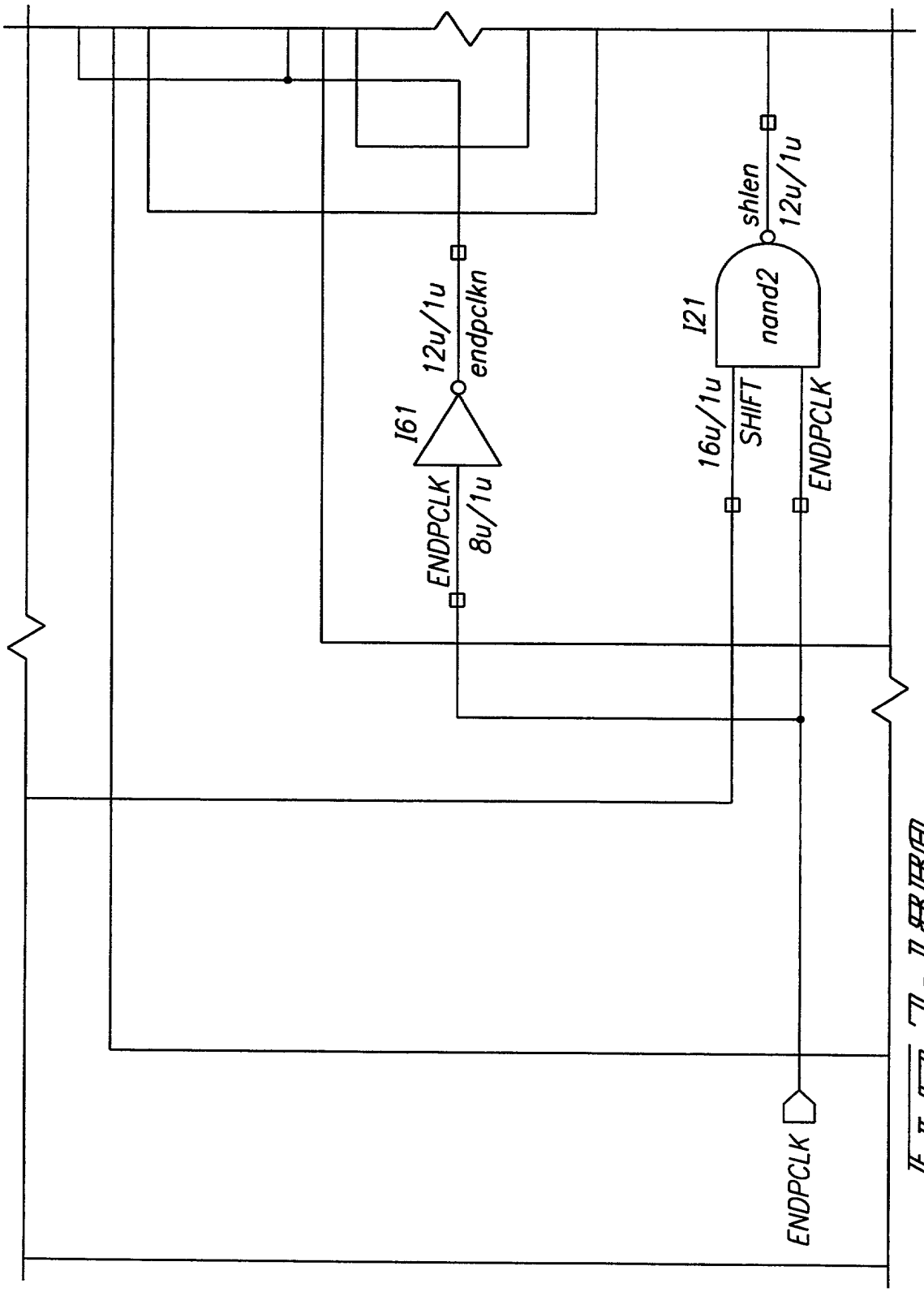

24u/1u
DSH0
I77
net4152
16u/1u
24u/1u
SHIFT
wdr=8u
ldr:1u M1
"nch" 8u
DSH0
dlatinm
net2330
wdr=8u
ldr:1u M60
"nch" 8u
DPDIN
dlatinm
I0
slatch
dlatinm
24u/1u
dlatoutm
12u/1u
1086/3273

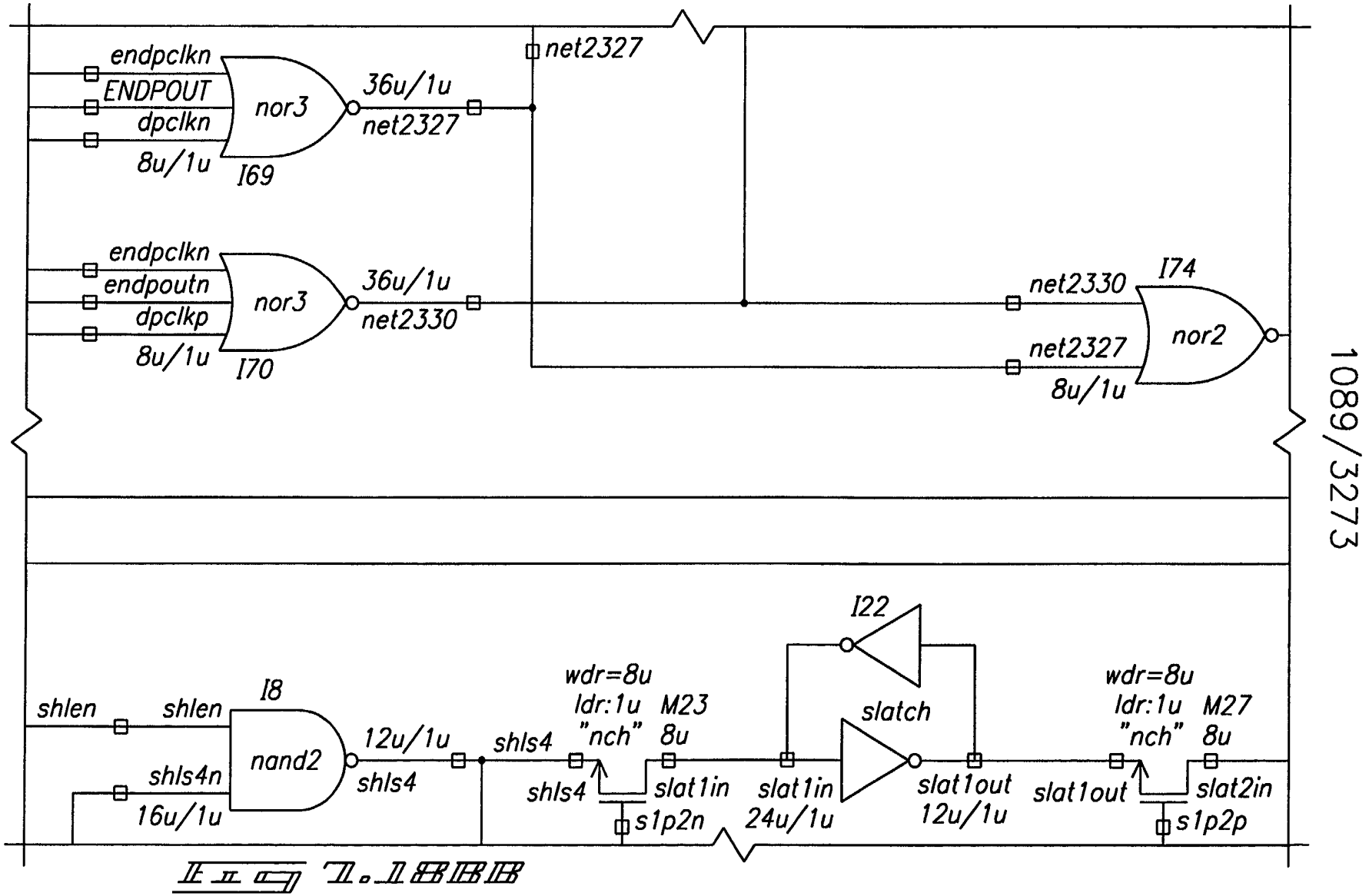
FIG. 11.1888


DSHO
SHIFT
DPDOUT
DPDOUT
12u/1u
slatch
I3
dlatins
24u/1u
wdr=8u
ldr:1u
"nch" 8u
M2
dlatins
net2949
dlatoutm


I61
12u/1u
endpclkn
ENDPCLK
8u/1u
I21
nand2
shlen
12u/1u
16u/1u
SHIFT
ENDPCLK
ENDPCLK

Фиг. 11

TOTTSO"E9022860



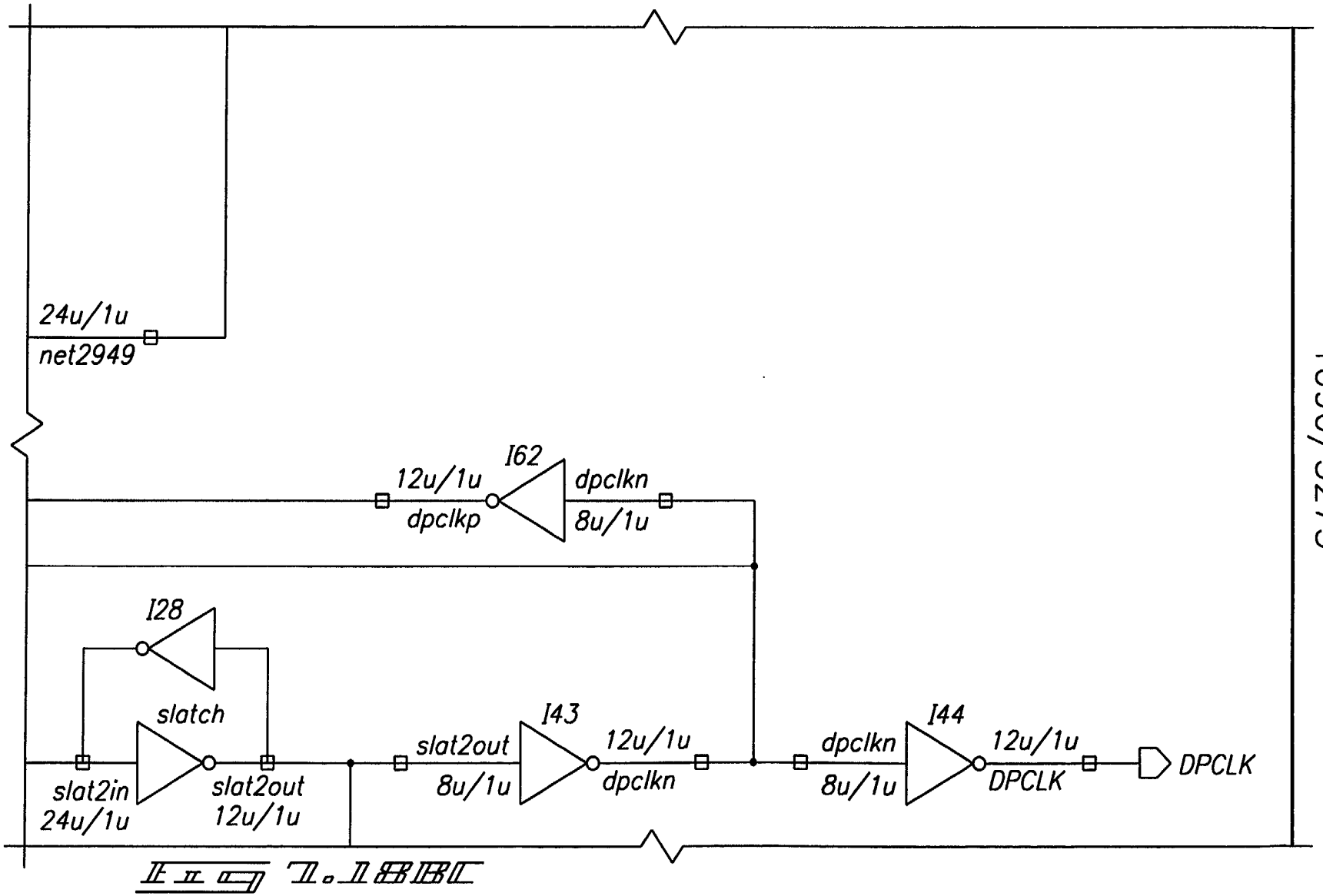
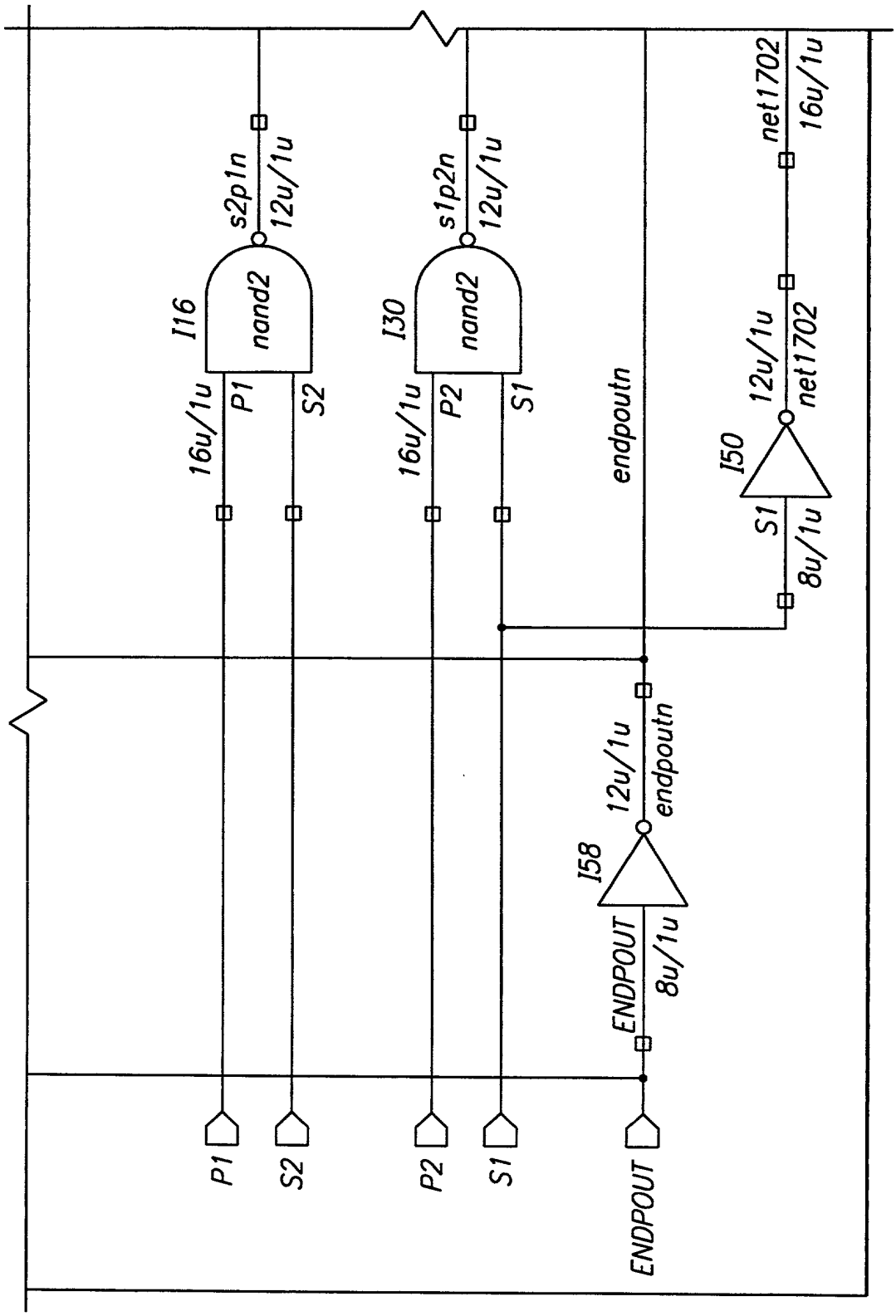
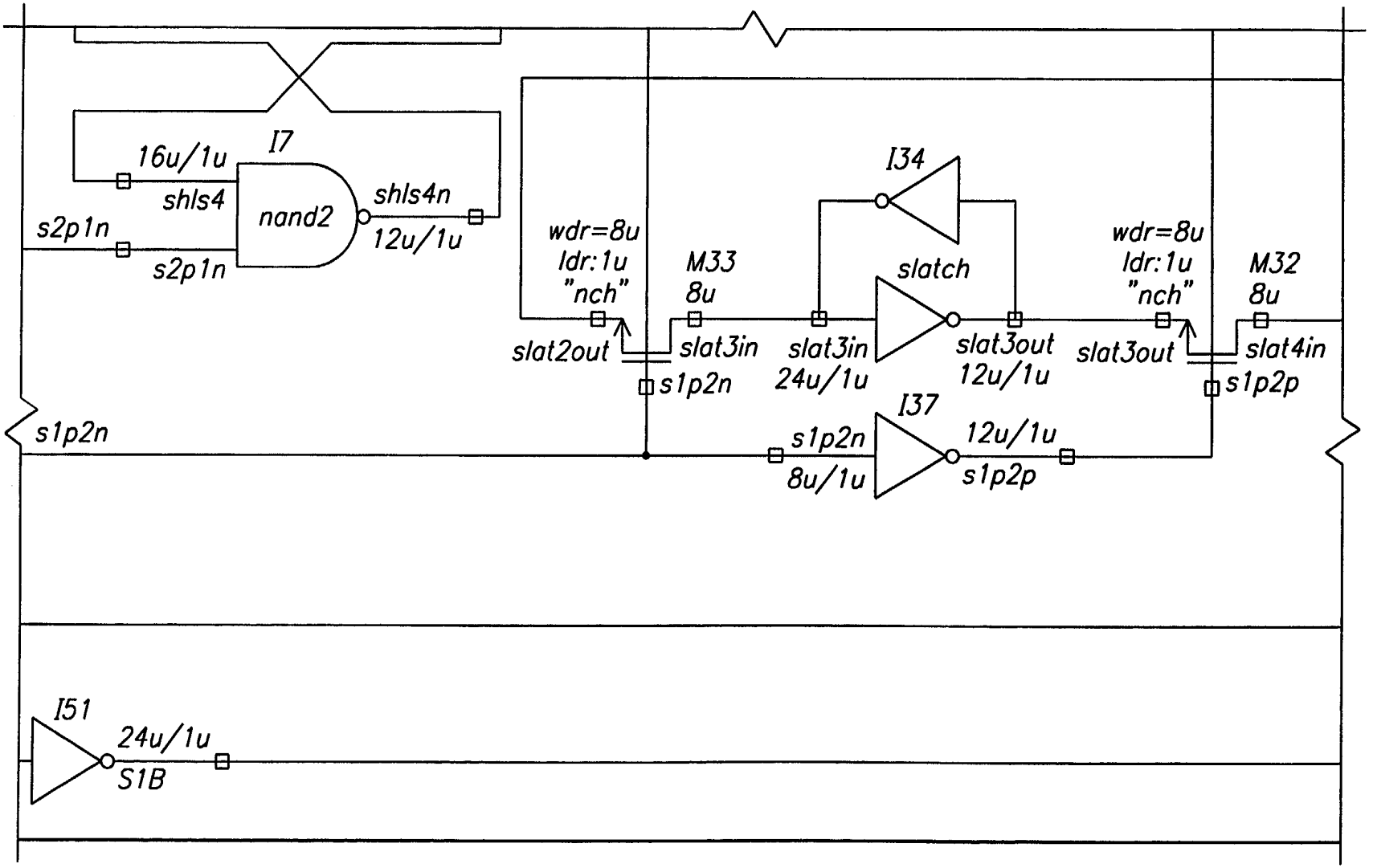

24u/1u
net2949
1090/3273
I62
12u/1u
dpclkp
dpclkn
8u/1u
I28
slatch
slat2in
24u/1u
slat2out
12u/1u
I43
slat2out
8u/1u
12u/1u
dpclkn
dpclkn
8u/1u
I44
12u/1u
DPCLK
DPCLK

Fig 7.1888C


I16
nand2
s2p1n
12u/1u
16u/1u
P1
S2
I30
nand2
s1p2n
12u/1u
16u/1u
P2
S1
endpoutn
I50
12u/1u
net1702
net1702
16u/1u
S1
8u/1u
I58
12u/1u
endpoutn
ENDPOUT
8u/1u
P1
S2
P2
S1
ENDPOUT

Фиг. 11


I7
16u/1u
shls4
s2p1n
s2p1n
nand2
shls4n
12u/1u
I34
wdr=8u
ldr:1u
"nch"
M33
8u
slatch
wdr=8u
ldr:1u
"nch"
M32
8u
slat2out
slat3in
s1p2n
slat3in
24u/1u
slat3out
12u/1u
slat3out
slat4in
s1p2p
s1p2n
I37
s1p2n
8u/1u
12u/1u
s1p2p
I51
24u/1u
S1B

Фиг 2.1ВС1В

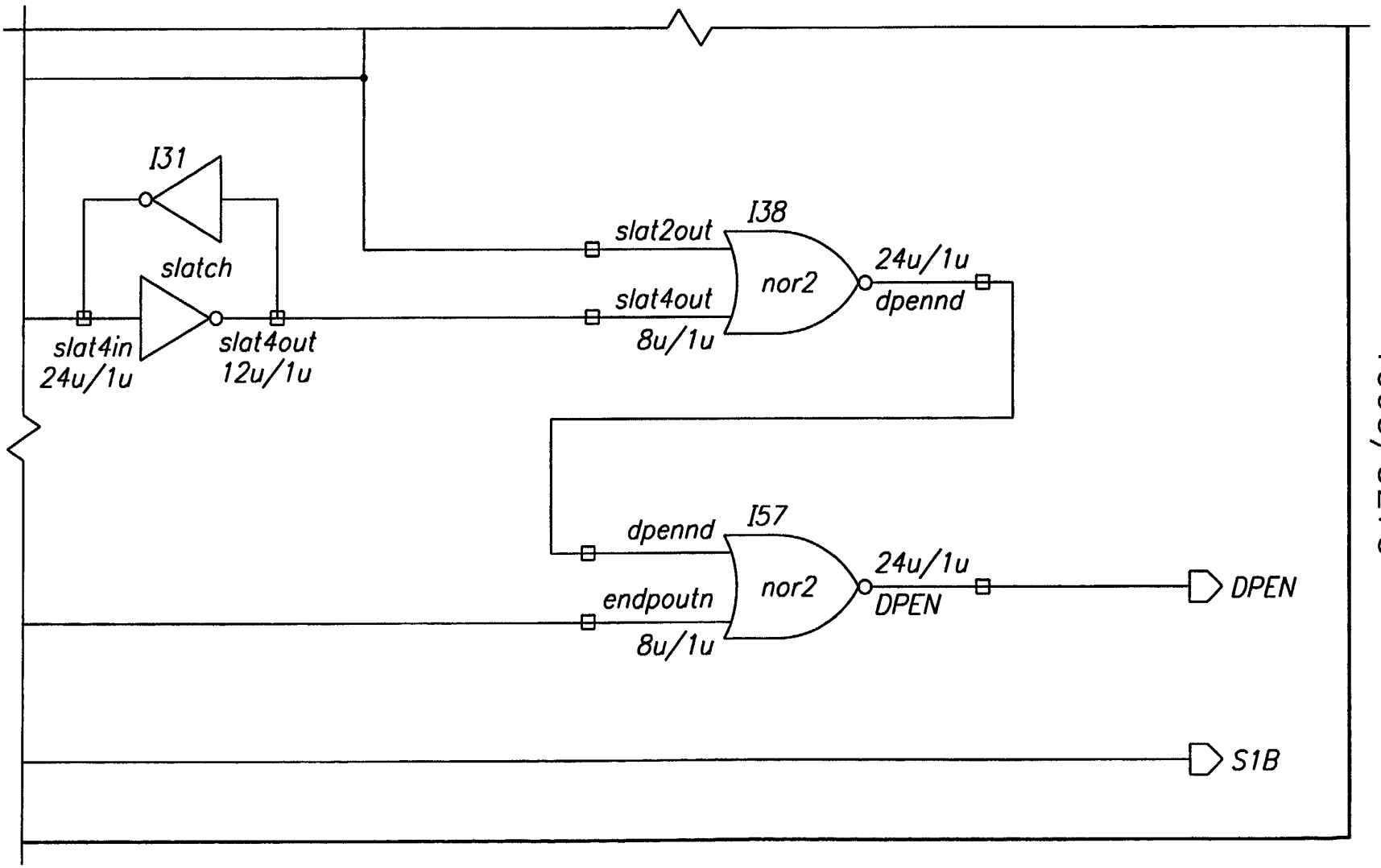
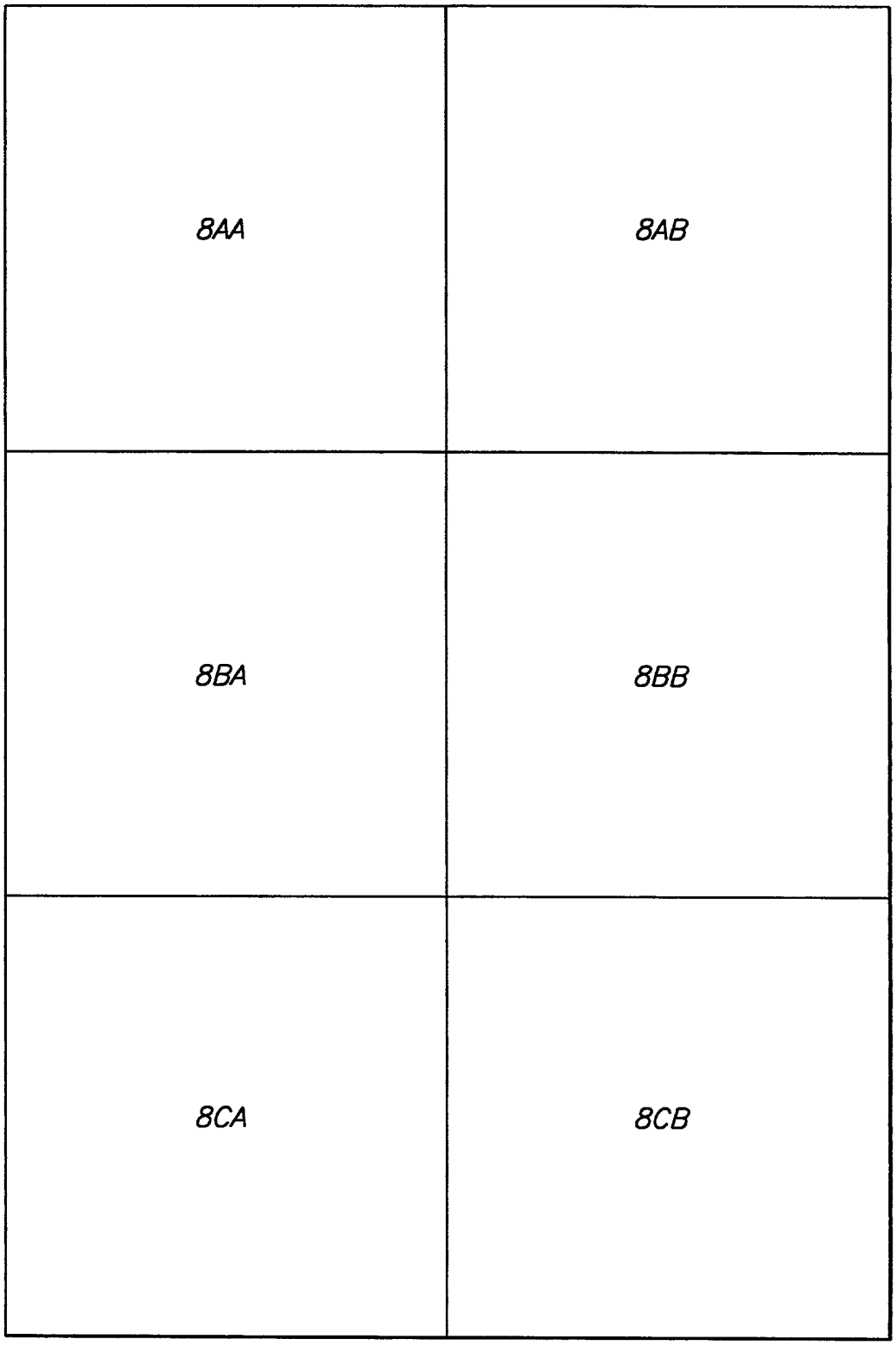
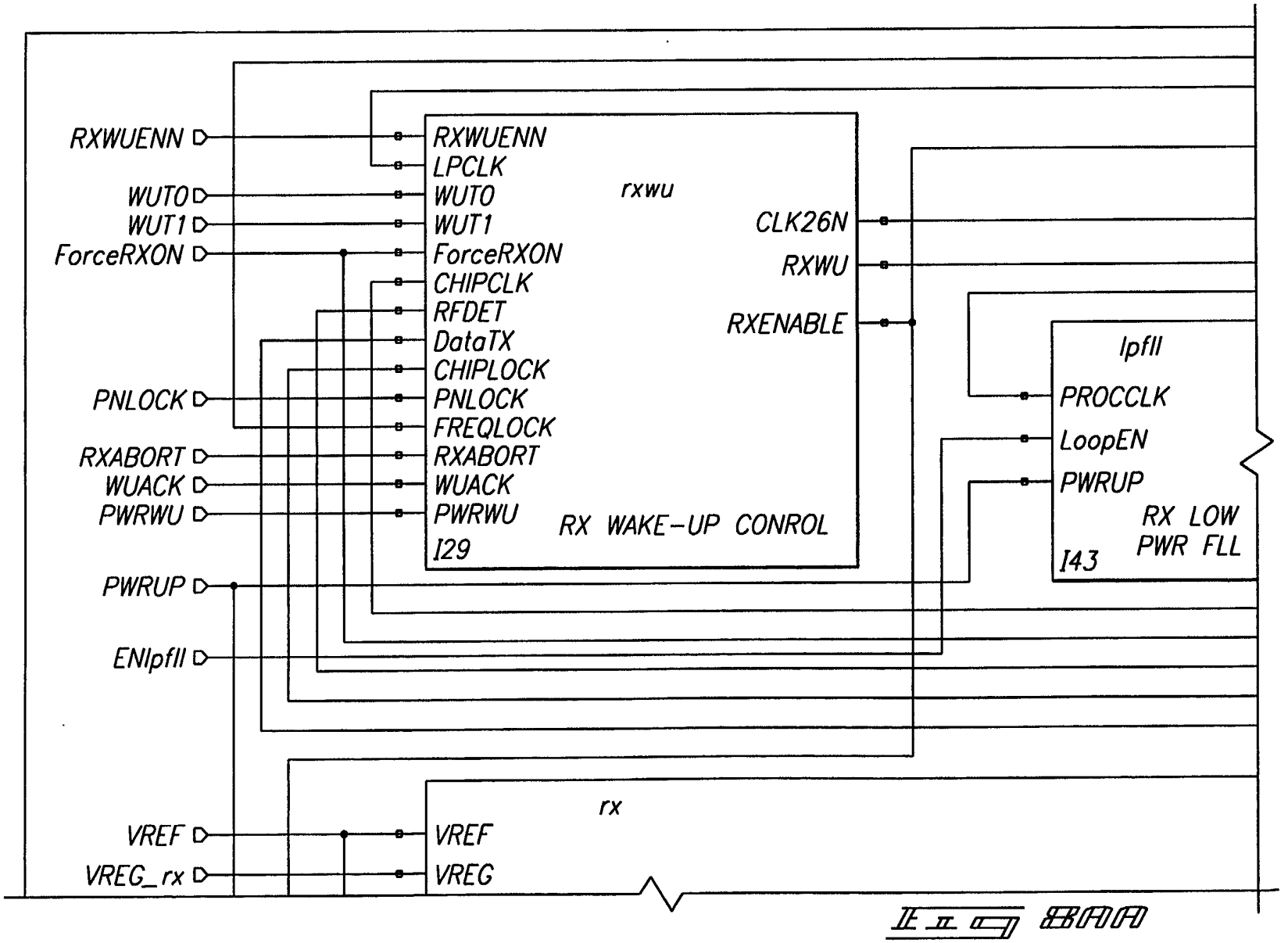

I31
slatch
slat4in
24u/1u
slat4out
12u/1u
slat2out
slat4out
8u/1u
I38
nor2
24u/1u
dpennd
dpennd
endpoutn
8u/1u
I57
nor2
24u/1u
DPEN
DPEN
S1B
1093/3273

Fig 2.18CC

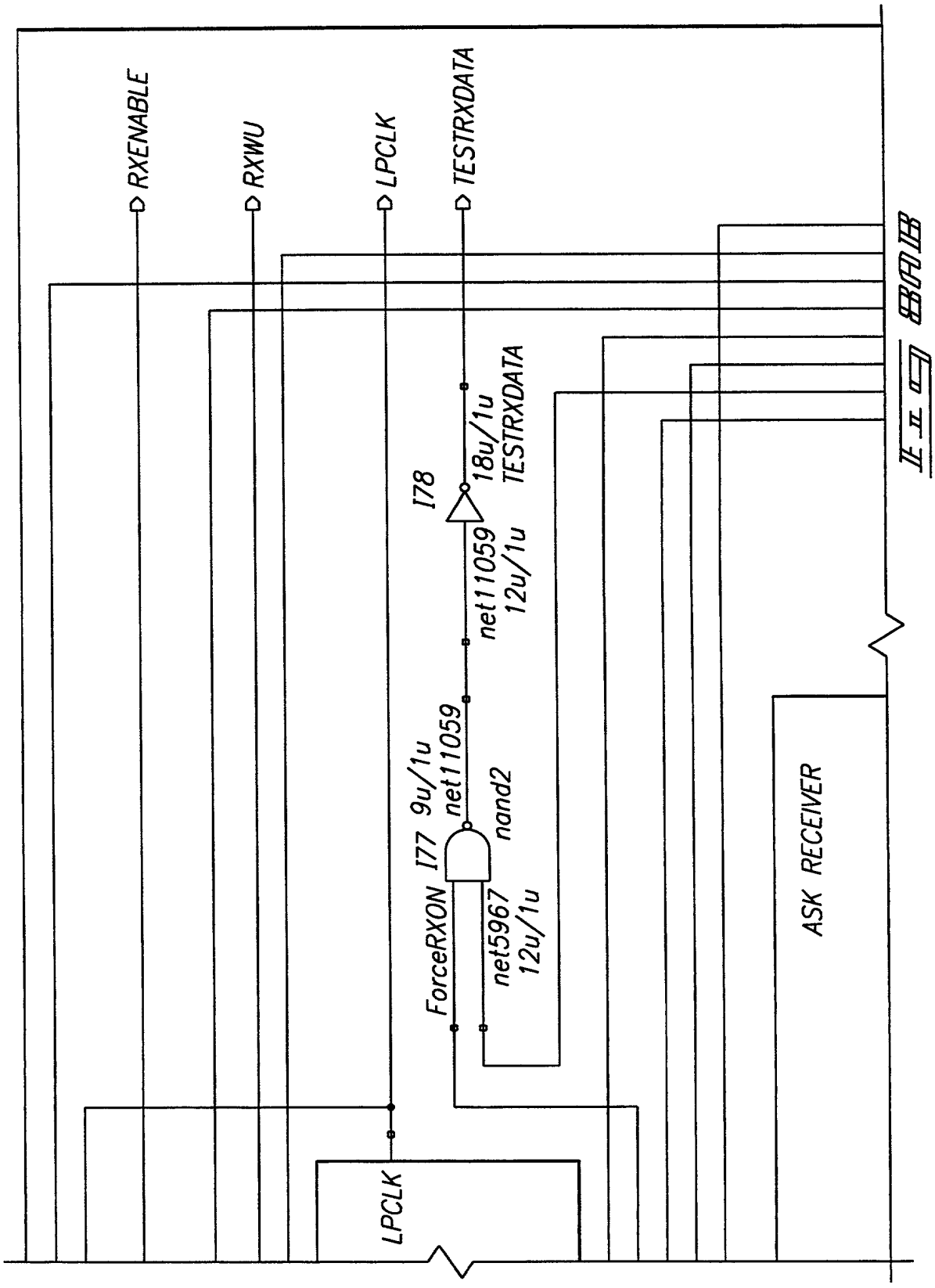
1094/3273

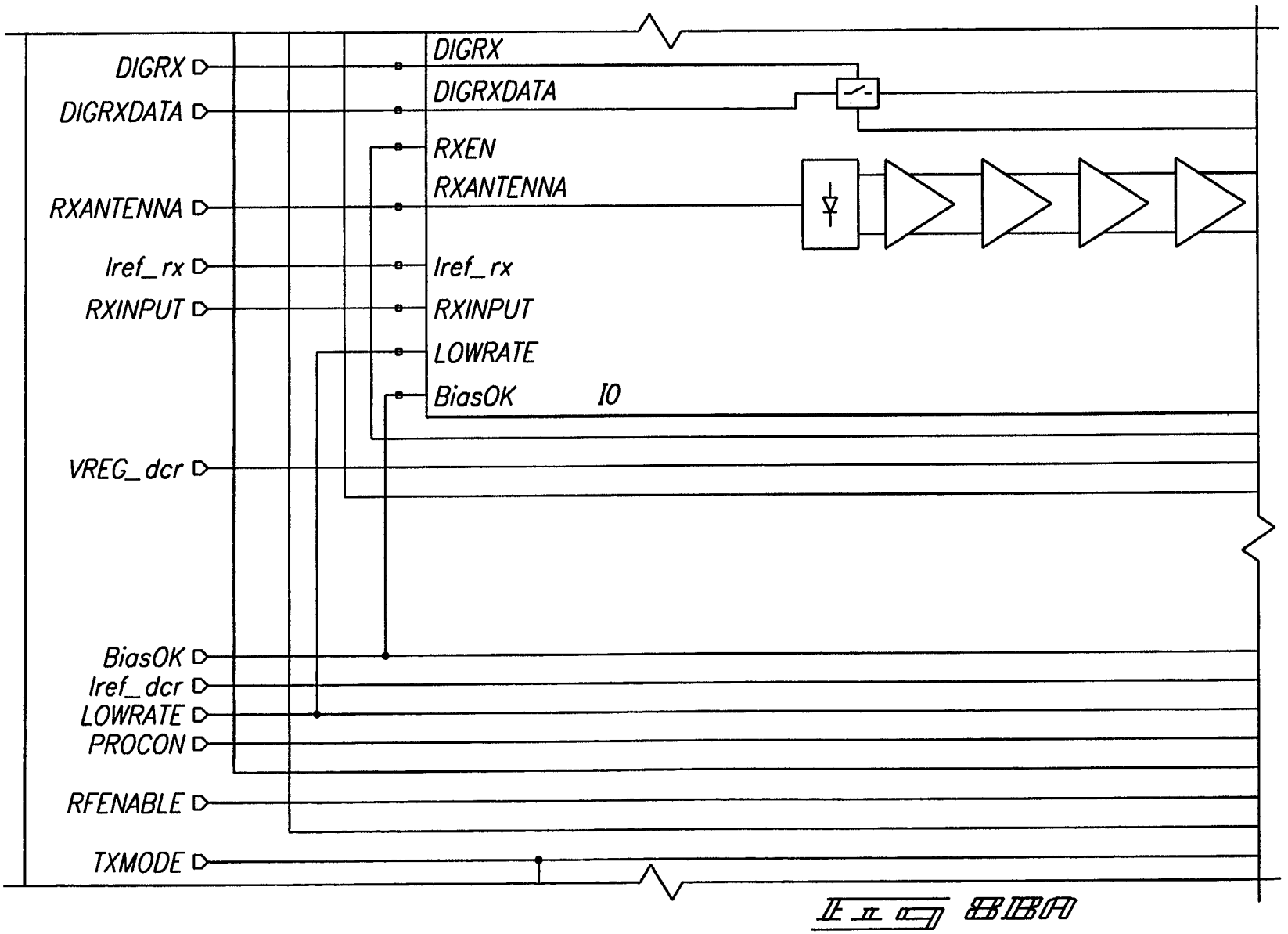


Document ID: 0000000000


RXWUENN
WUT0
WUT1
ForceRXON
PNLOCK
RXABORT
WUACK
PWRWU
PWRUP
ENIpfll
VREF
VREG_rx
RXWUENN
LPCLK
WUT0
WUT1
ForceRXON
CHIPCLK
RFDET
DataTX
CHIPLOCK
PNLOCK
FREQLOCK
RXABORT
WUACK
PWRWU
I29
rxwu
RX WAKE-UP CONROL
CLK26N
RXWU
RXENABLE
Ipfll
PROCCLK
LoopEN
PWRUP
RX LOW
PWR FLL
I43
rx
VREF
VREG

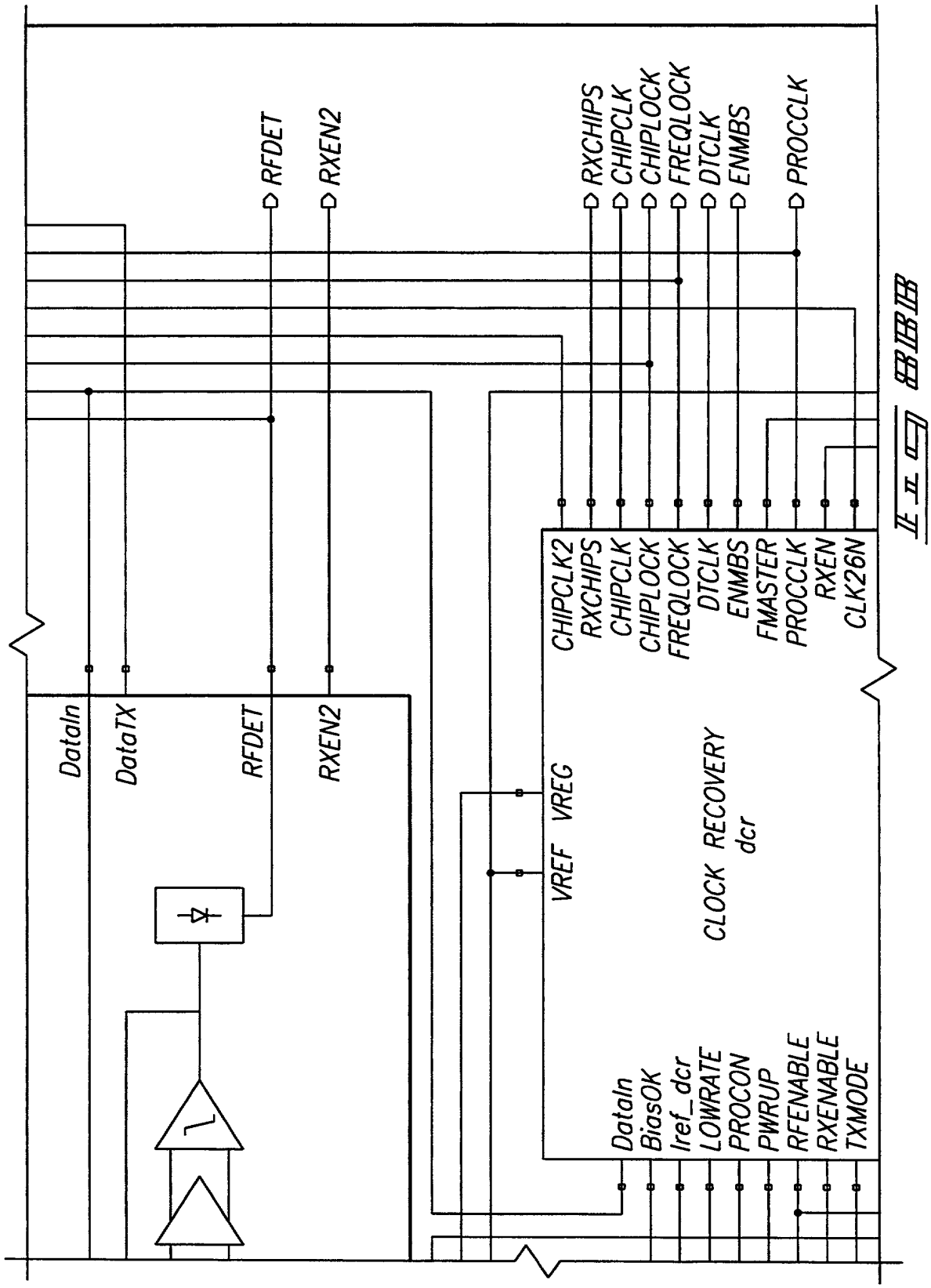
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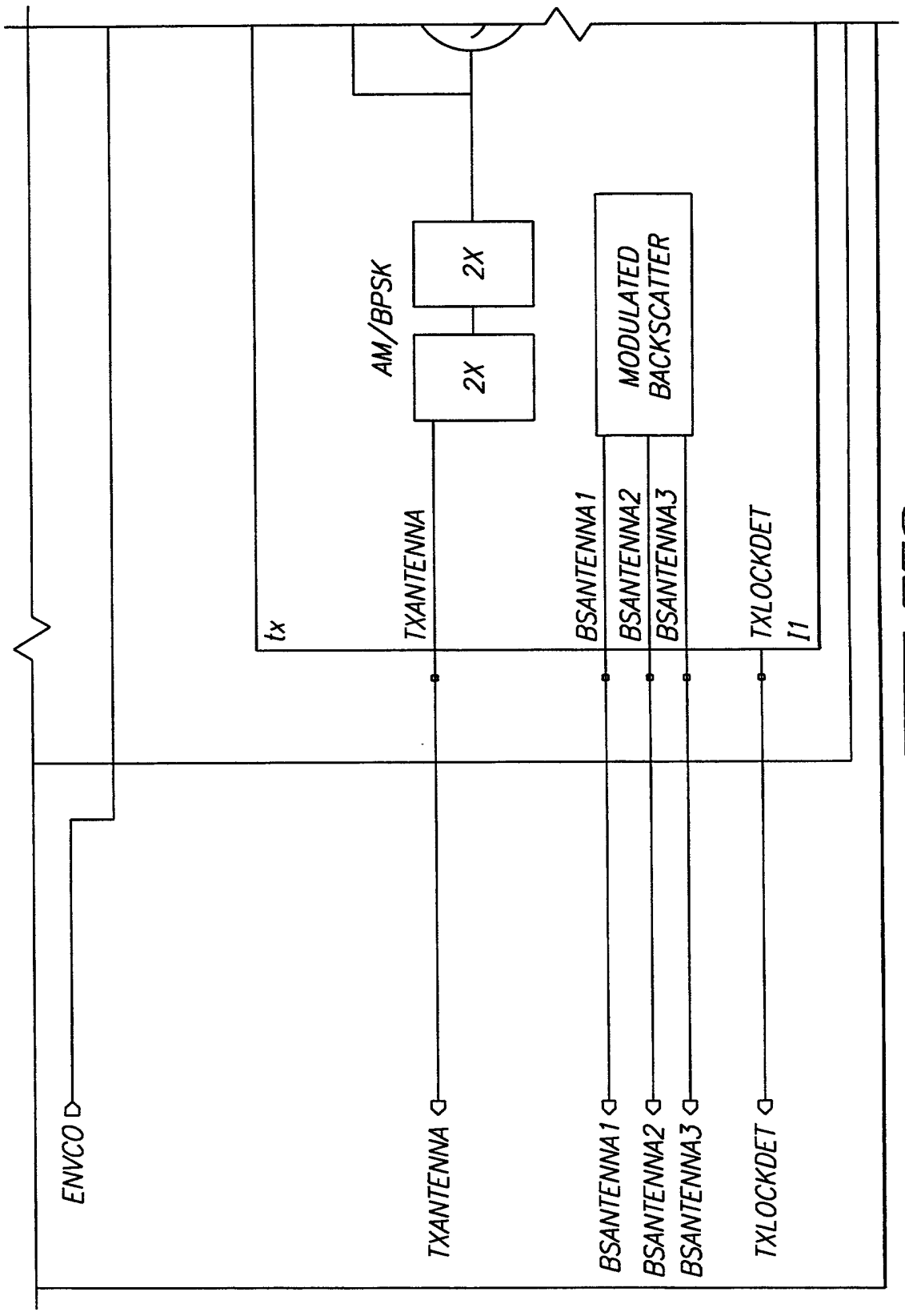

RXENABLE
RXWU
LPCLK
TESTRXDATA
I78
18u/1u
TESTRXDATA
net11059
12u/1u
I77 9u/1u
net11059
ForceRXON
nand2
net5967
12u/1u
LPCLK
ASK RECEIVER



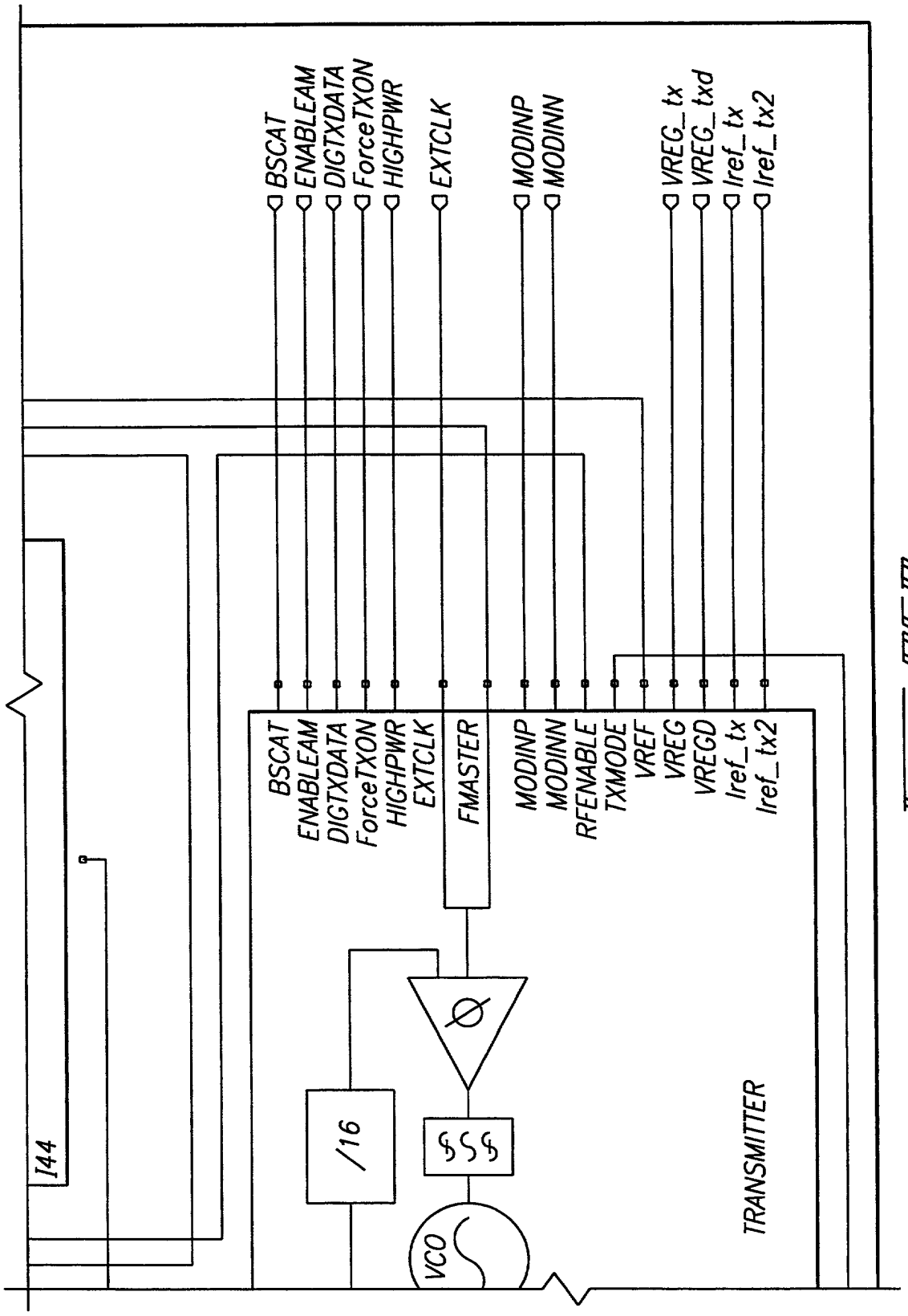
1097/3273

Fig 8BBA


RFDET
RXEN2
RXCHIPS
CHIPCLK
CHIPLOCK
FREQLOCK
DTCLK
ENMBS
PROCCLK
DataIn
DataTX
RFDET
RXEN2
CHIPCLK2
RXCHIPS
CHIPCLK
CHIPLOCK
FREQLOCK
DTCLK
ENMBS
FMASTER
PROCCLK
RXEN
CLK26N
VREF
VREG
CLOCK RECOVERY
dcr
DataIn
BiasOK
Iref_dcr
LOWRATE
PROCON
PWRUP
RFENABLE
RXENABLE
TXMODE


ENVCO
TXANTENNA
BSANTENNA1
BSANTENNA2
BSANTENNA3
TXLOCKDET
TXANTENNA
BSANTENNA1
BSANTENNA2
BSANTENNA3
TXLOCKDET
11
tx
AM/BPSK
2X
2X
MODULATED
BACKSCATTER

Фиг 5


BSCAT
ENABLEAM
DIGTXDATA
ForceTXON
HIGHPWR
EXTCLK
MODINP
MODINN
VREG_tx
VREG_txd
Iref_tx
Iref_tx2
BSCAT
ENABLEAM
DIGTXDATA
ForceTXON
HIGHPWR
EXTCLK
FMASTER
MODINP
MODINN
RFENABLE
TXMODE
VREF
VREG
VREGD
Iref_tx
Iref_tx2
I44
/16
VCO
TRANSMITTER

Фиг. 11

8.01AA	8.01AB	8.01AC	8.01AD	8.01AE
8.01BA	8.01BB	8.01BC	8.01BD	8.01BE
8.01CA	8.01CB	8.01CC	8.01CD	8.01CE
8.01DA	8.01DB	8.01DC	8.01DD	8.01DE

Fig 8.01

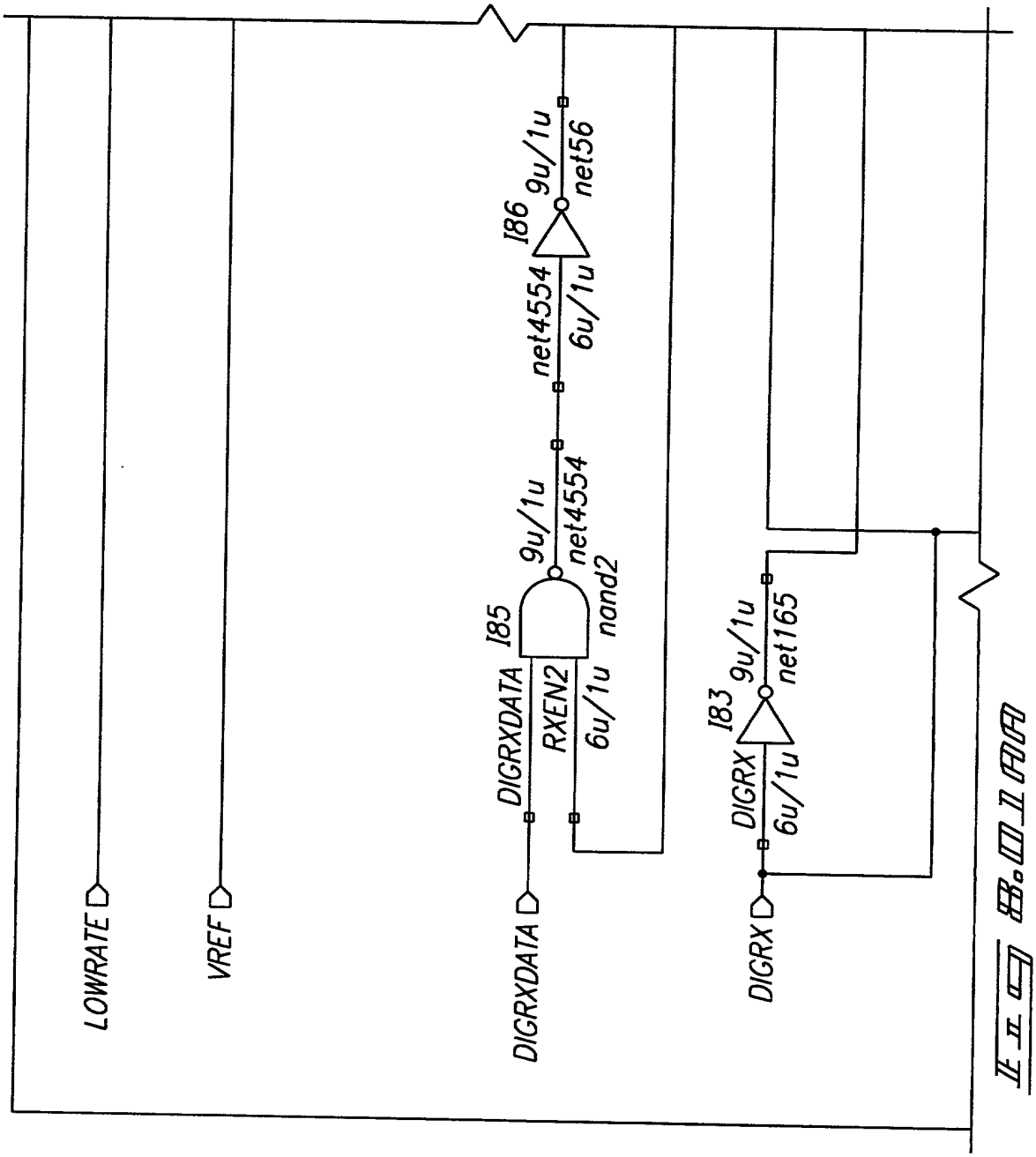
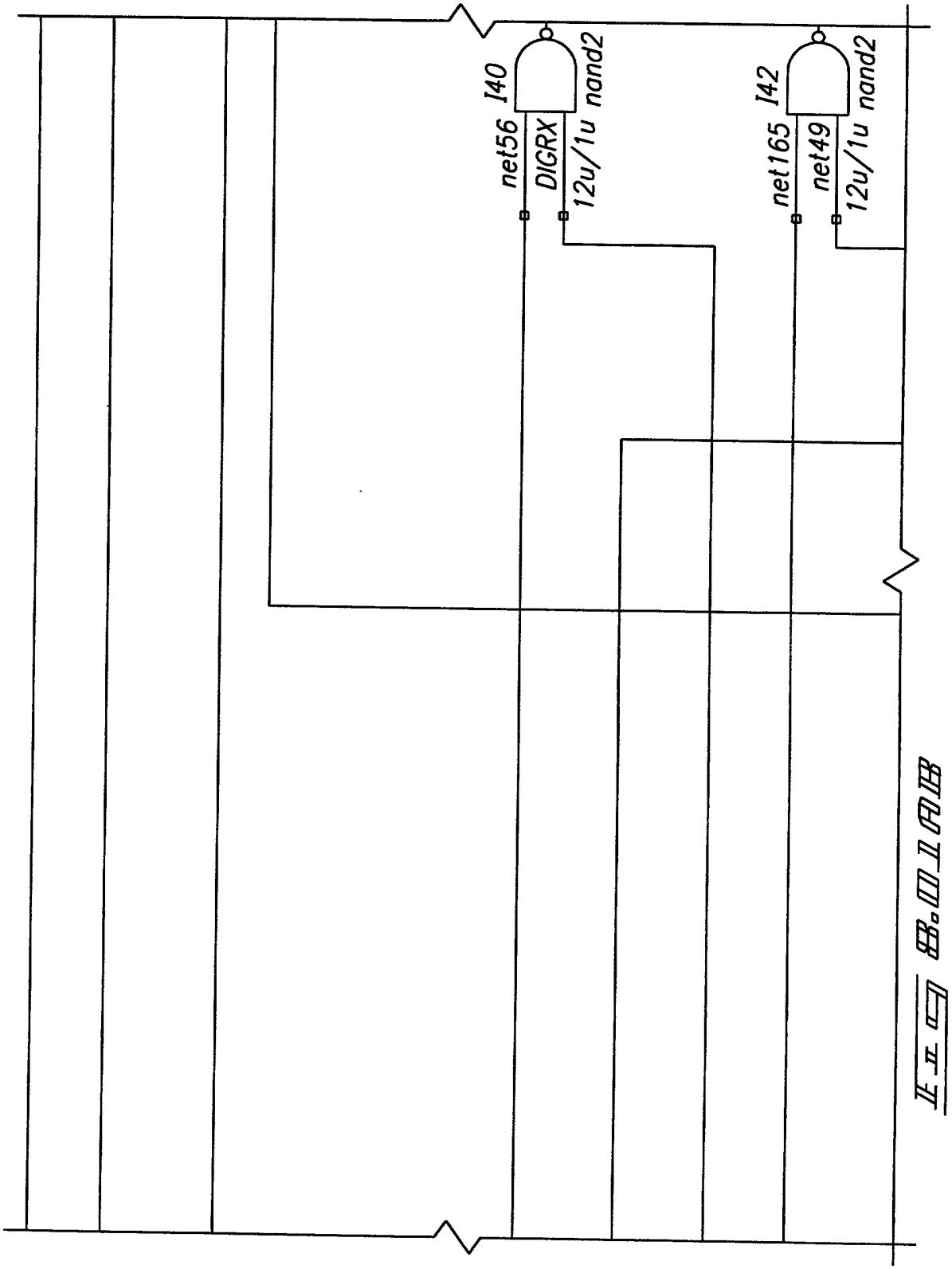
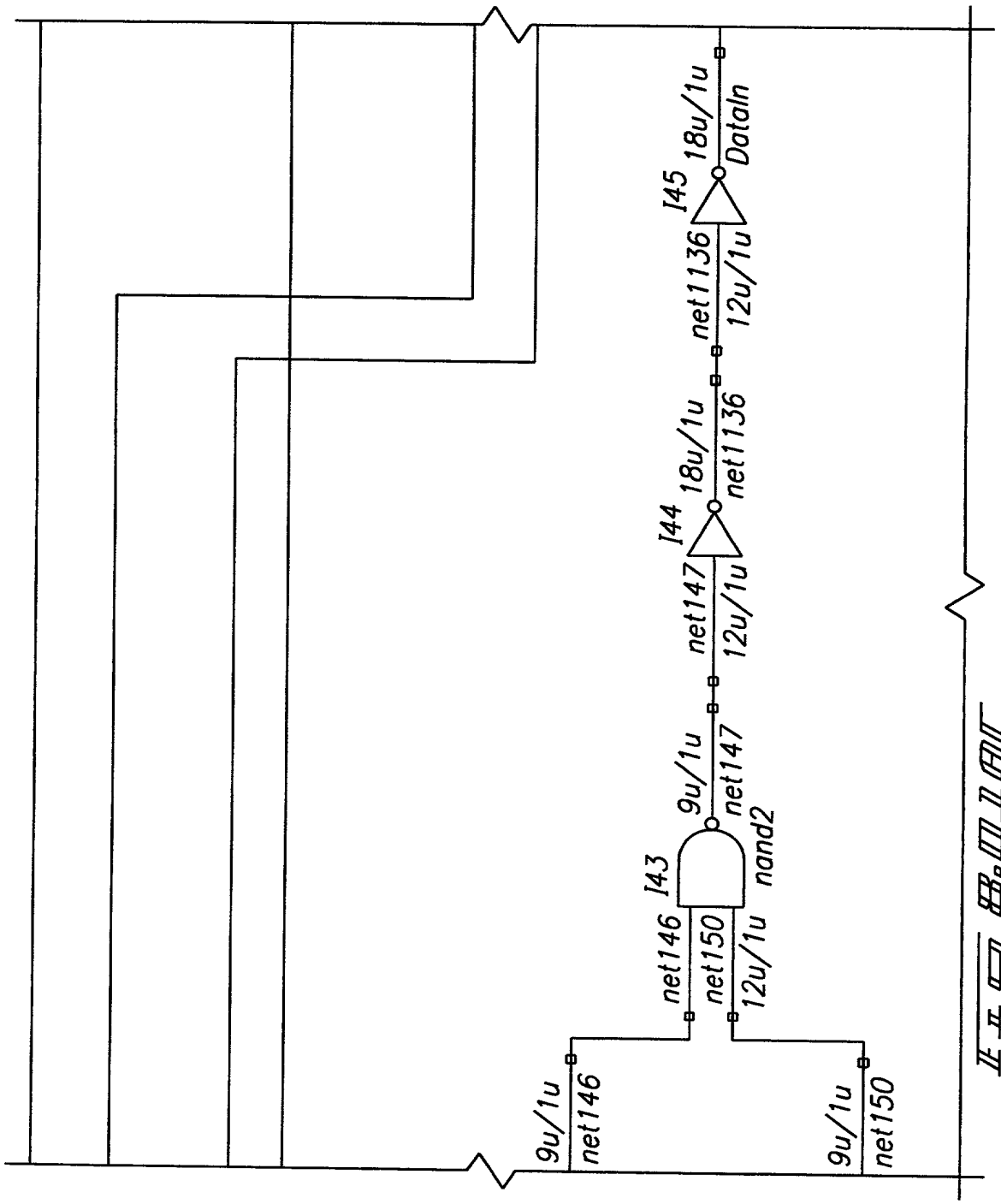


FIG 8.011AA

4,717,967 - 26-12-1988 09:14:10



EPSON S1C62256


net146
9u/1u
net150
12u/1u
I43
nand2
net147
9u/1u
net147
12u/1u
I44
18u/1u
net1136
net1136
12u/1u
I45
18u/1u
DataIn

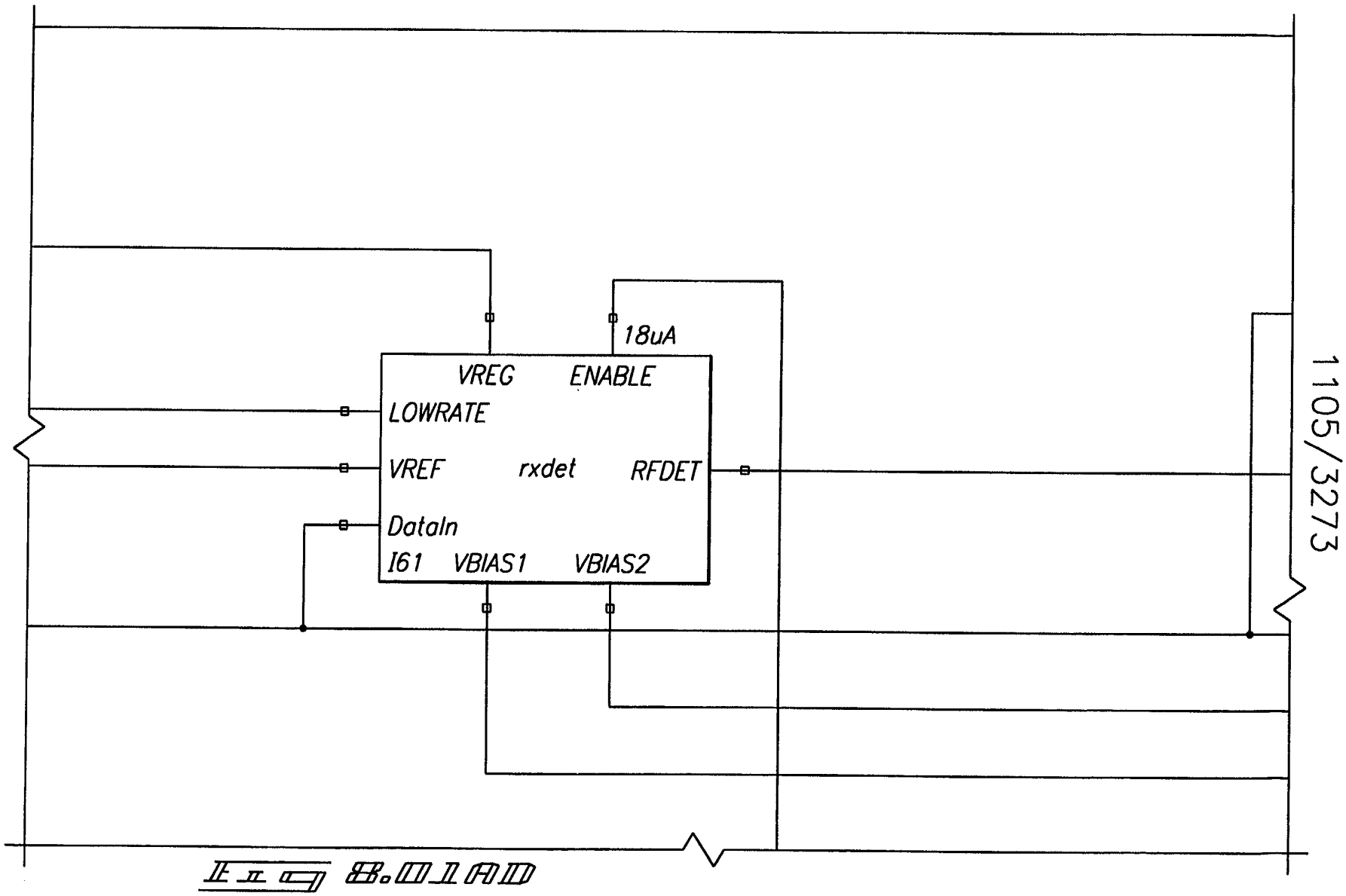

18uA
VREG
ENABLE
LOWRATE
VREF
rxdet
RFDET
DataIn
I61
VBIAS1
VBIAS2
1105/3273

Fig 8.0110

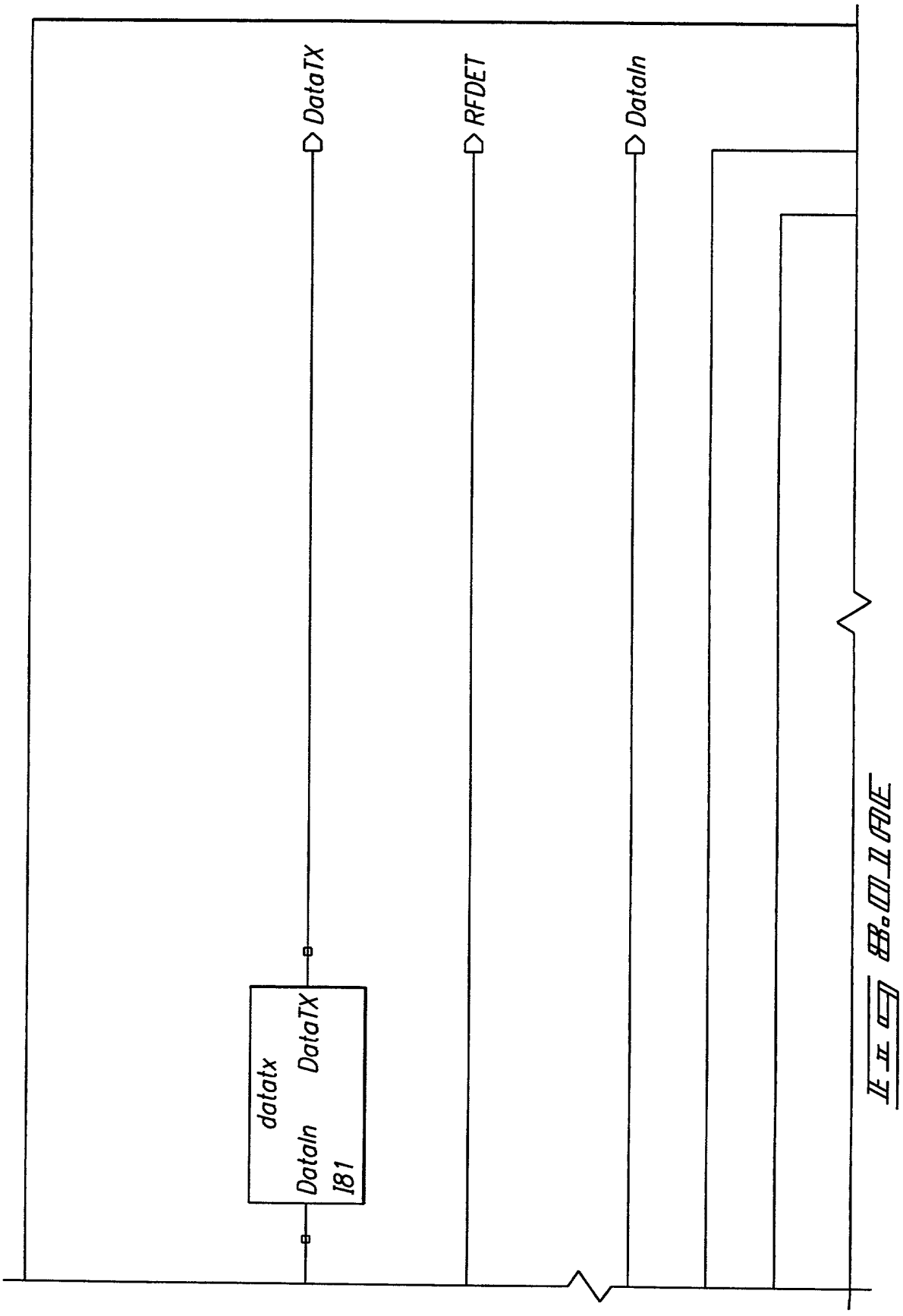


FIG 8.01AE

EP 1 914 925 A2 20080423

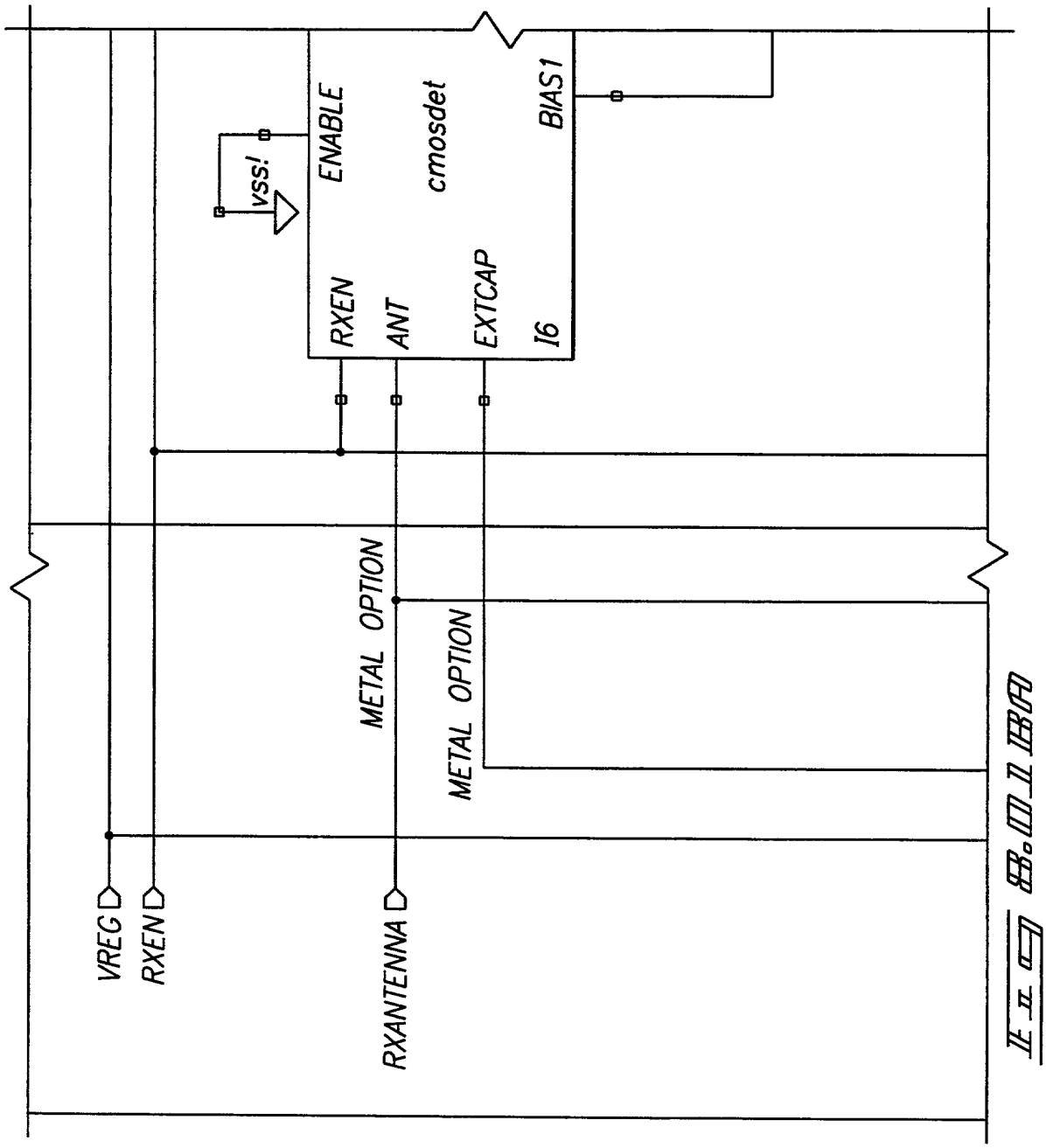


FIG. 11B

Patent Application

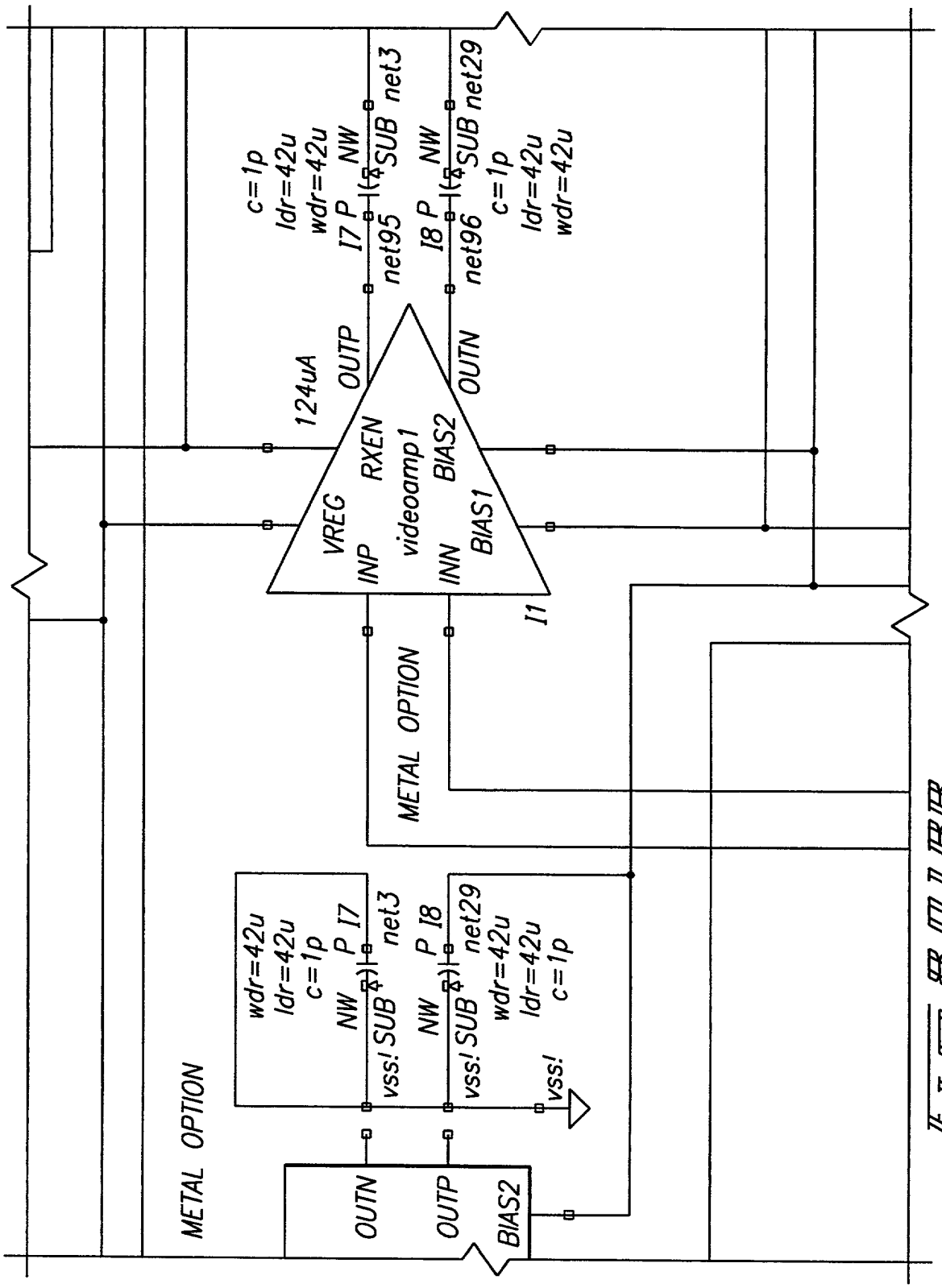


Fig 8.111 BB.111 IBB IBB

TOTSO:P5022950

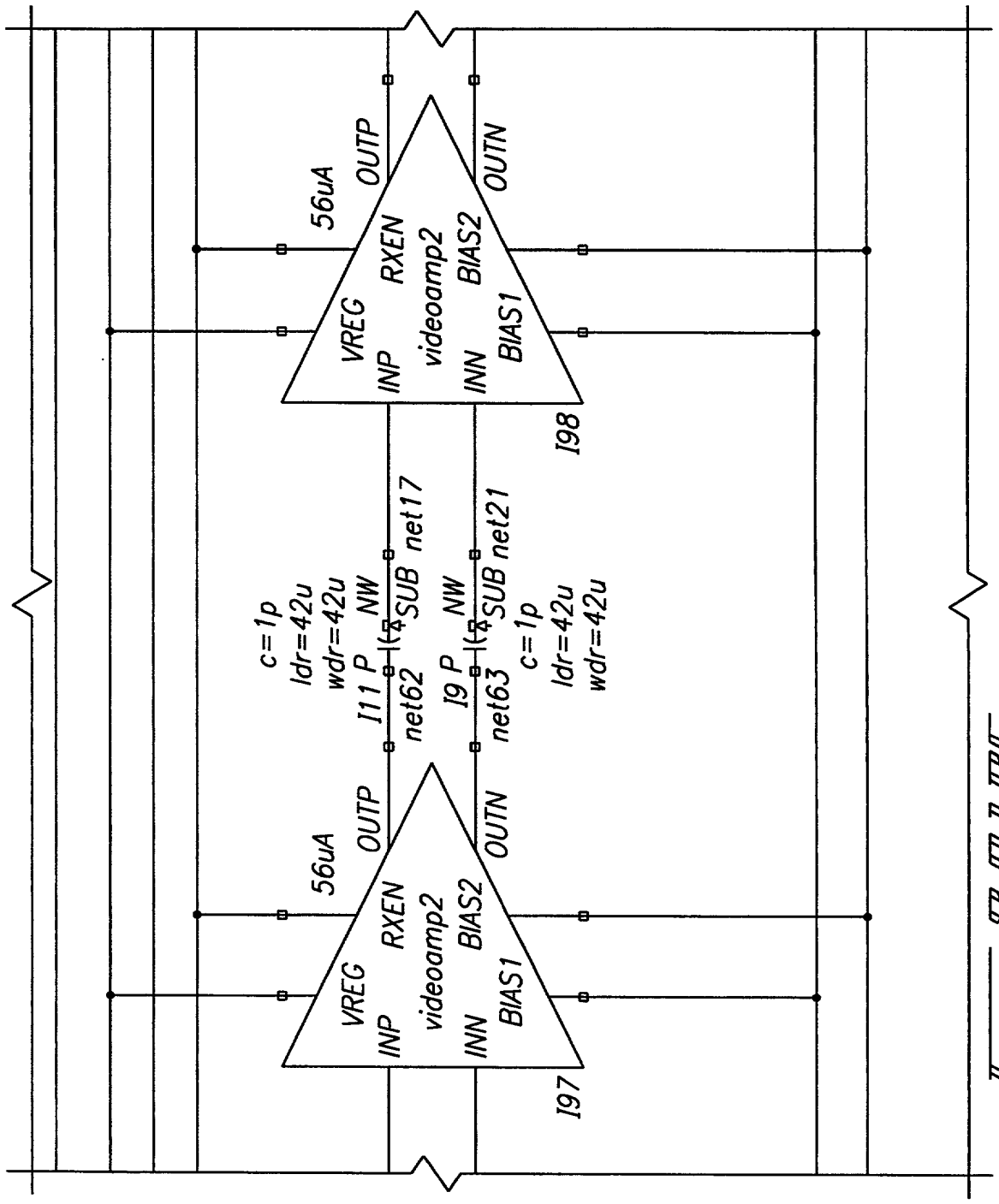


FIG 8.00 II IBIC

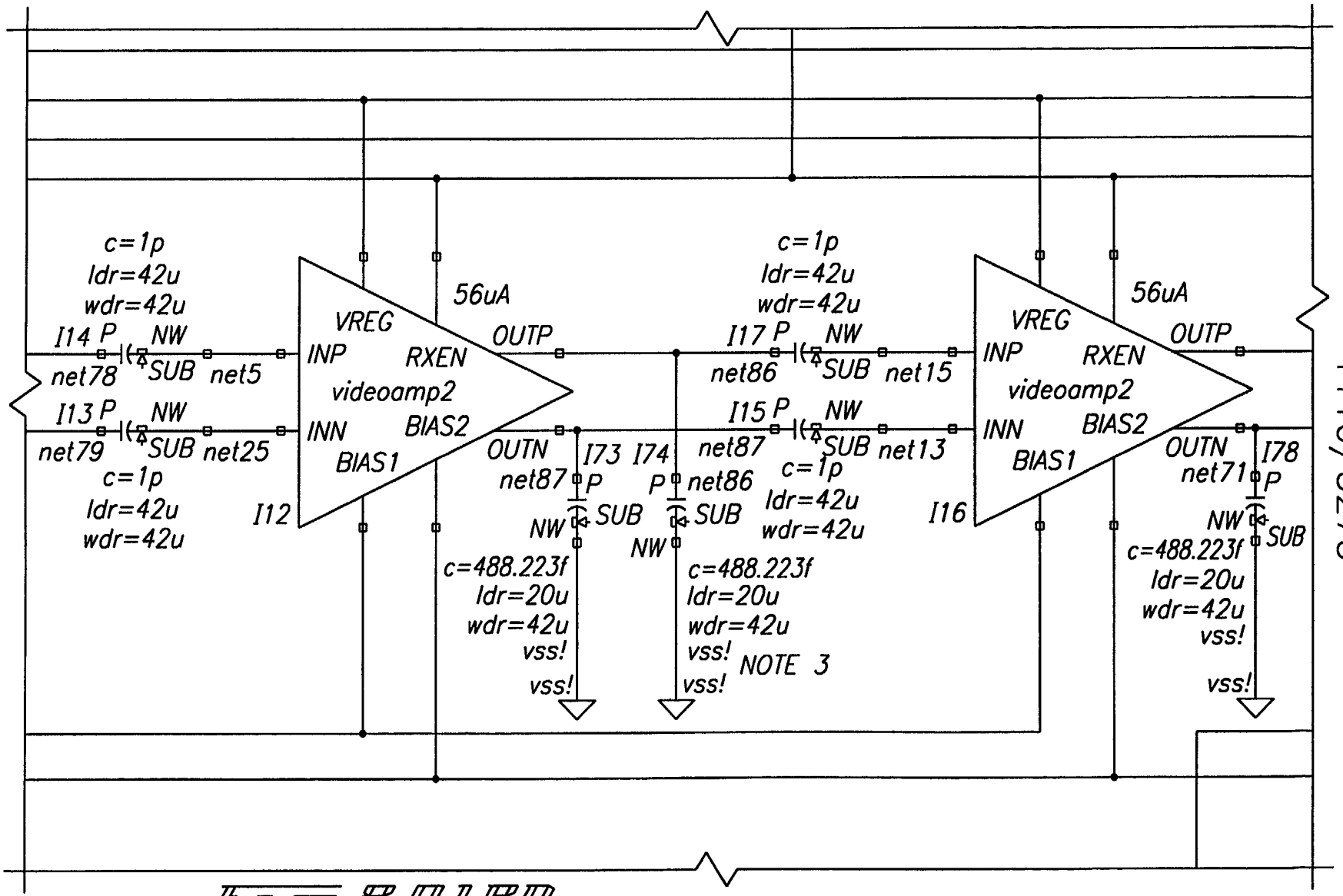
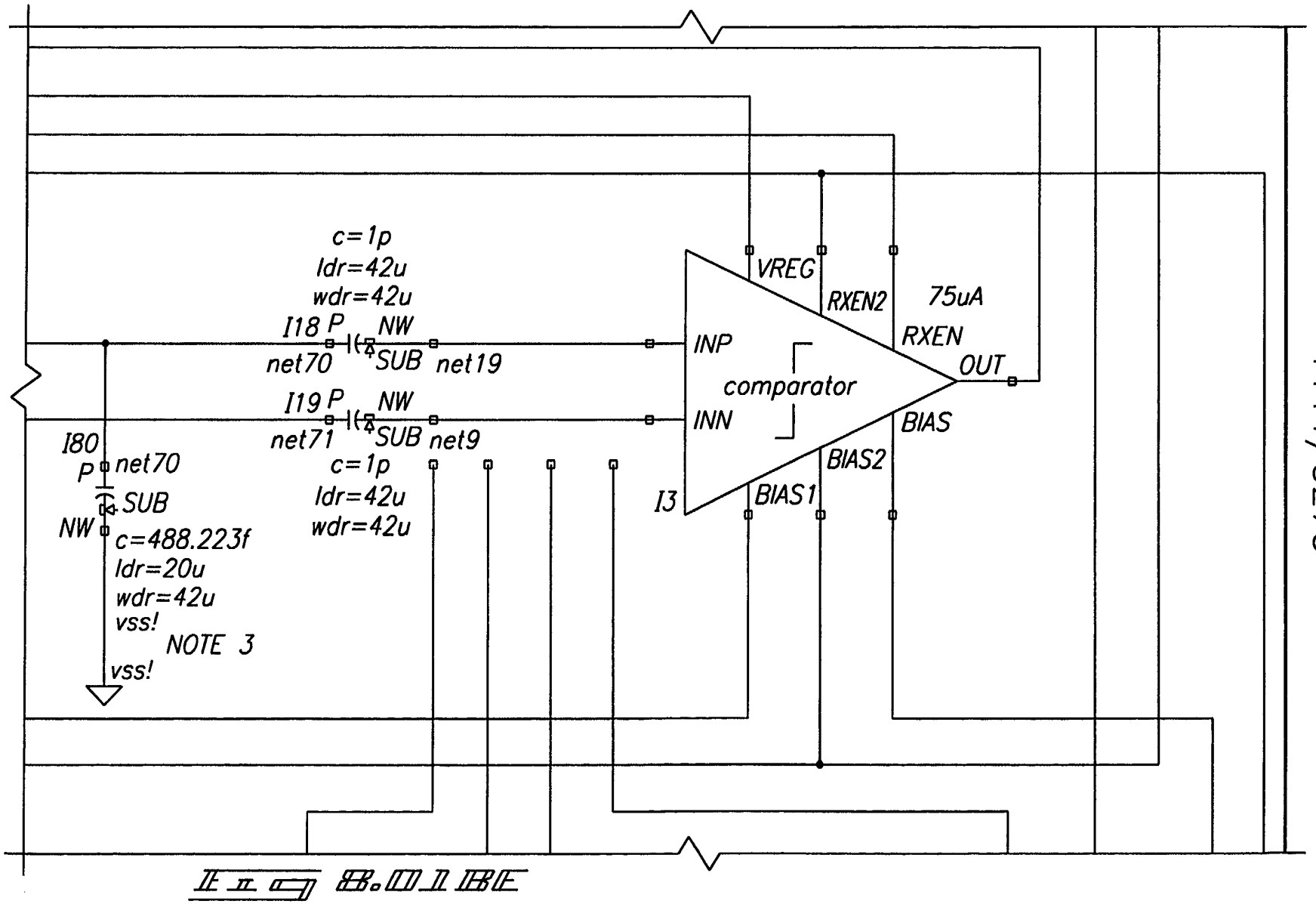
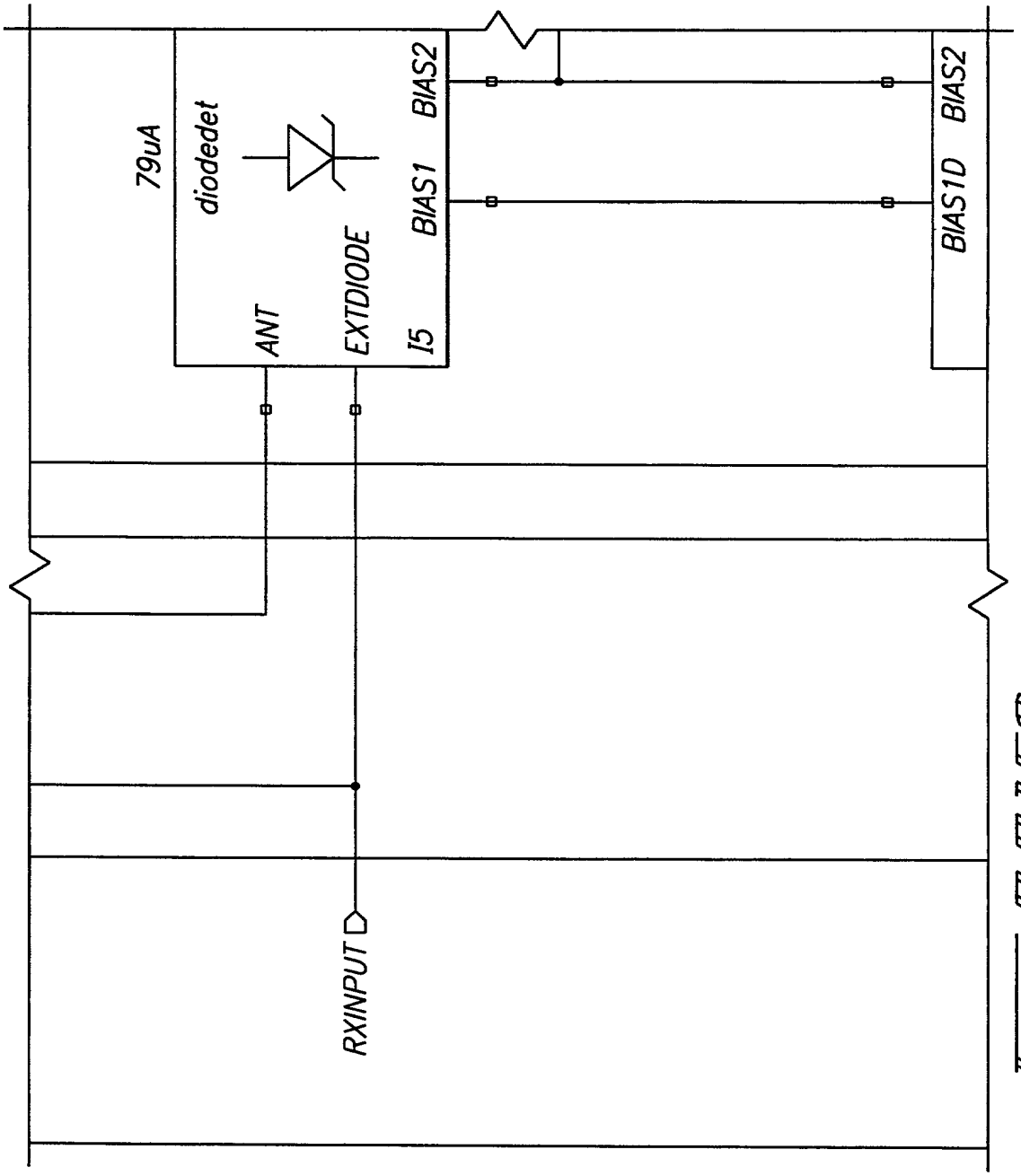

c=1p
ldr=42u
wdr=42u
I14 P
NW
net78
SUB
net5
I13 P
NW
net79
SUB
net25
c=1p
ldr=42u
wdr=42u
56uA
VREG
INP
RXEN
videoamp2
INN
BIAS2
BIAS1
OUTP
OUTN
I12
net87
I73
P
NW
SUB
c=488.223f
ldr=20u
wdr=42u
vss!
vss!
I74
P
net86
SUB
NW
c=488.223f
ldr=20u
wdr=42u
vss!
vss!
NOTE 3
c=1p
ldr=42u
wdr=42u
I17 P
NW
net86
SUB
net15
I15 P
NW
net87
SUB
net13
c=1p
ldr=42u
wdr=42u
56uA
VREG
INP
RXEN
videoamp2
INN
BIAS2
BIAS1
OUTP
OUTN
I16
net71
I78
P
NW
SUB
c=488.223f
ldr=20u
wdr=42u
vss!
vss!

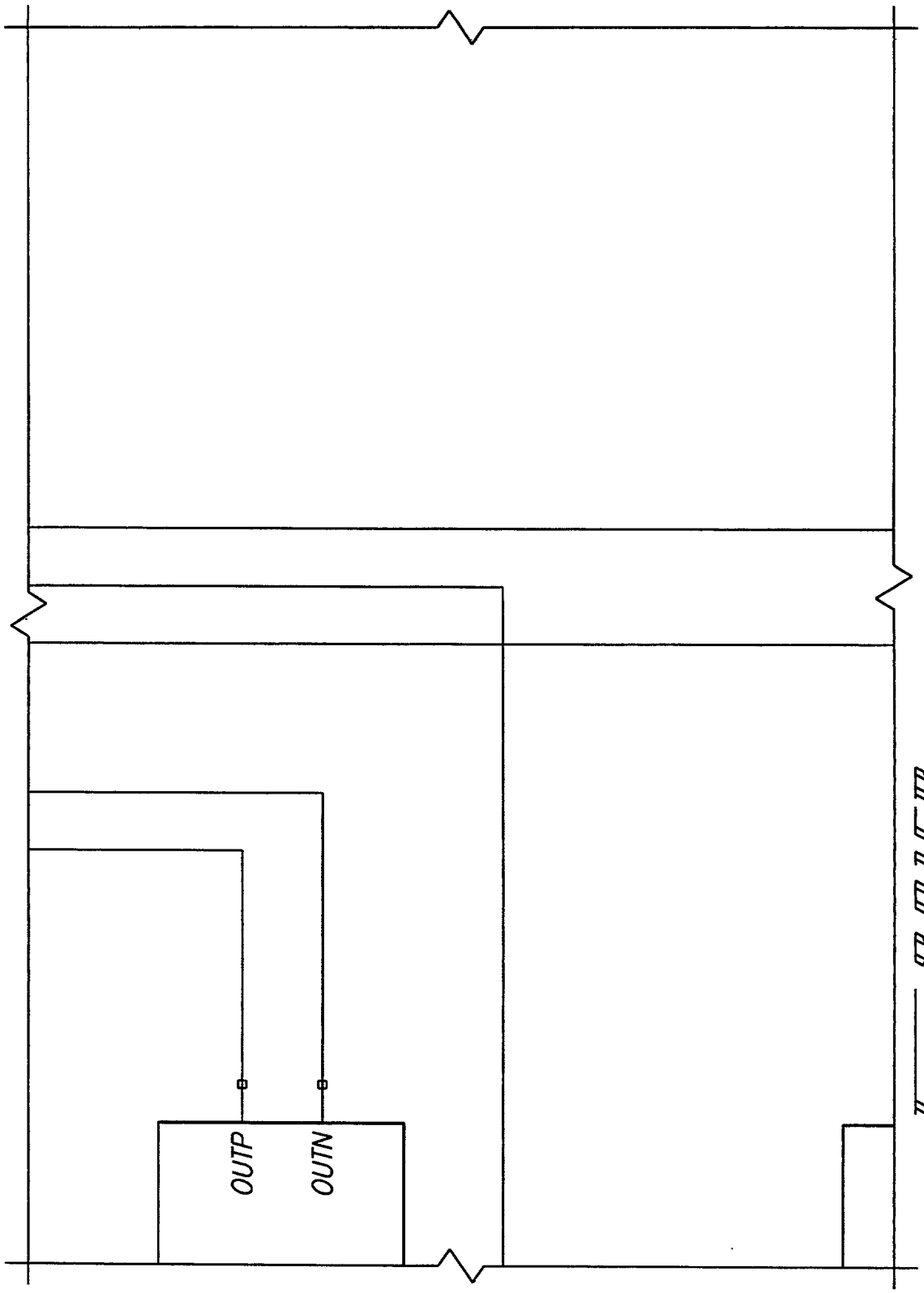
Fig 8.01 IBM

EP 0 902 860 A1




79uA
diodedet
ANT
EXTDIODE
I5
BIAS1
BIAS2
BIAS1D
BIAS2
RXINPUT

Фиг. 8.011 CA



05/22/2003 15:01

T0T190 E5032860

GAIN (diff) FROM OUTPUT OF DETECTOR TO INPUT OF COMPARATOR = 74dB
LOWER 3dB FREQUENCY = 168KHz
UPPER 3dB FREQUENCY = 6.5MHz
COMPARATOR HYSTERESIS = 28mV EACH SIDE OF EQUAL

Fig 8.0116

1115/3273

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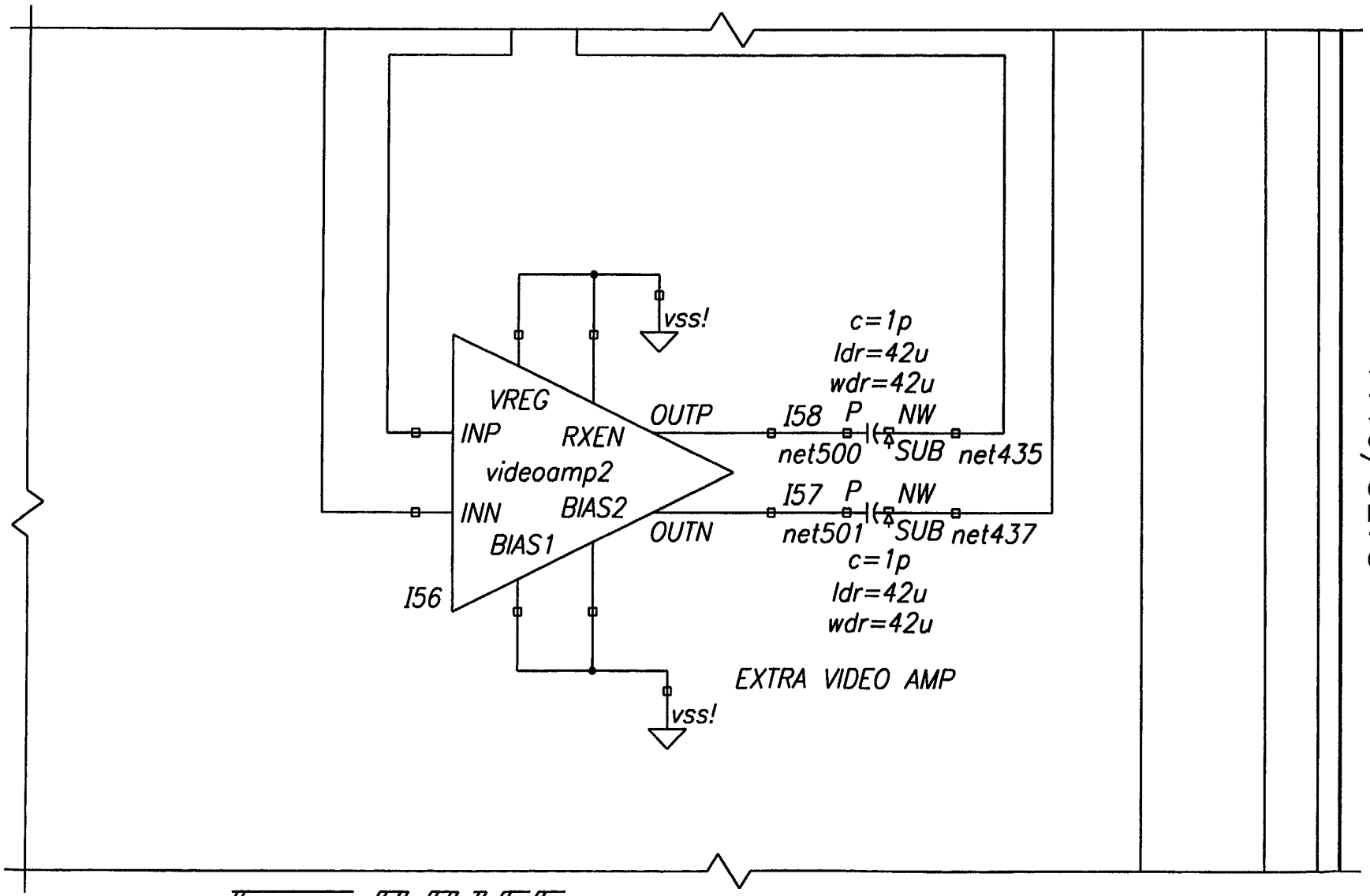
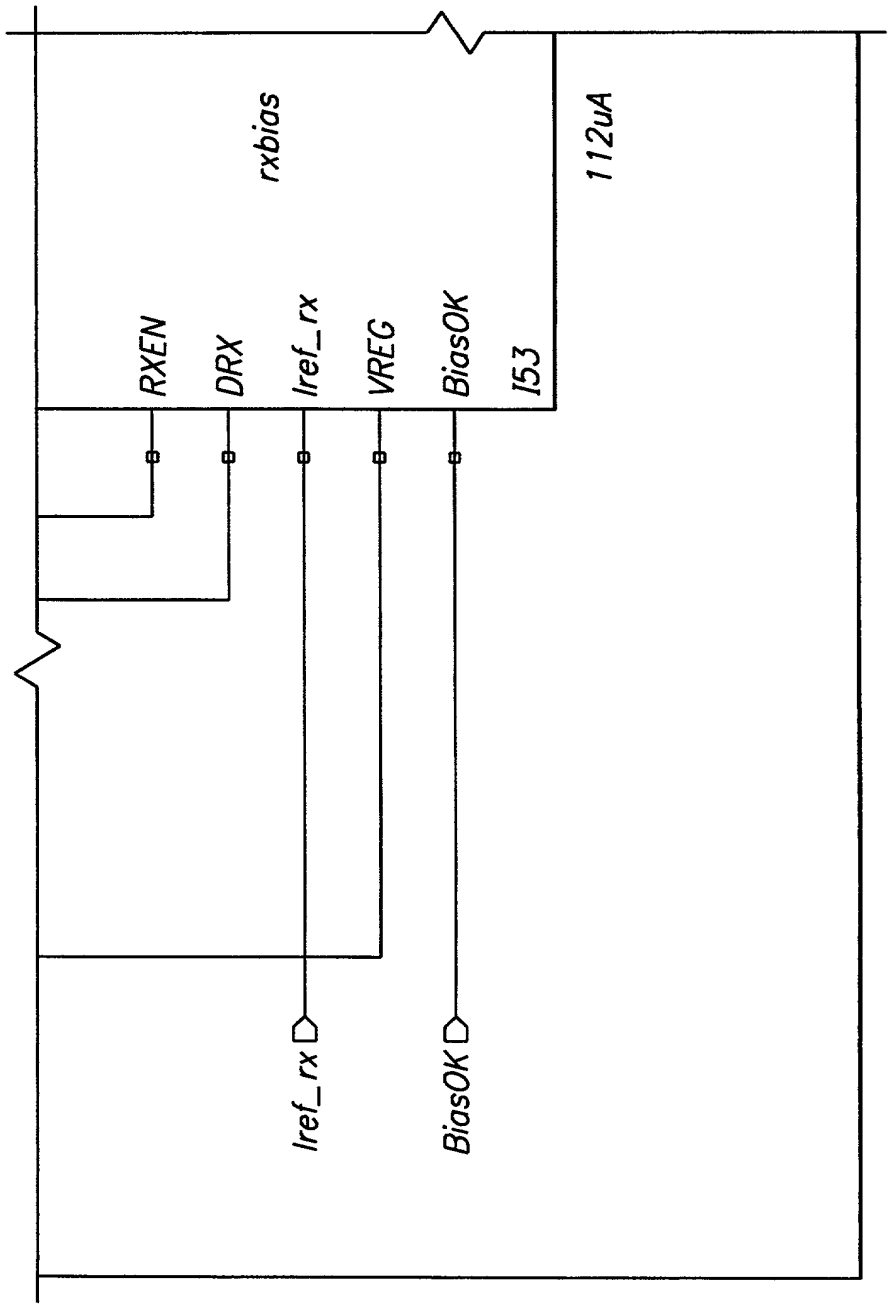

vss!
c=1p
ldr=42u
wdr=42u
VREG
OUTP
I58
P
NW
INP
RXEN
net500
SUB
net435
videoamp2
I57
P
NW
INN
BIAS2
OUTN
net501
SUB
net437
BIAS1
c=1p
I56
ldr=42u
wdr=42u
EXTRA VIDEO AMP
vss!

Fig 8.DIDE



Фиг. 88.11.IDA

EP 1 774 694 B1

T0T190"E90232860

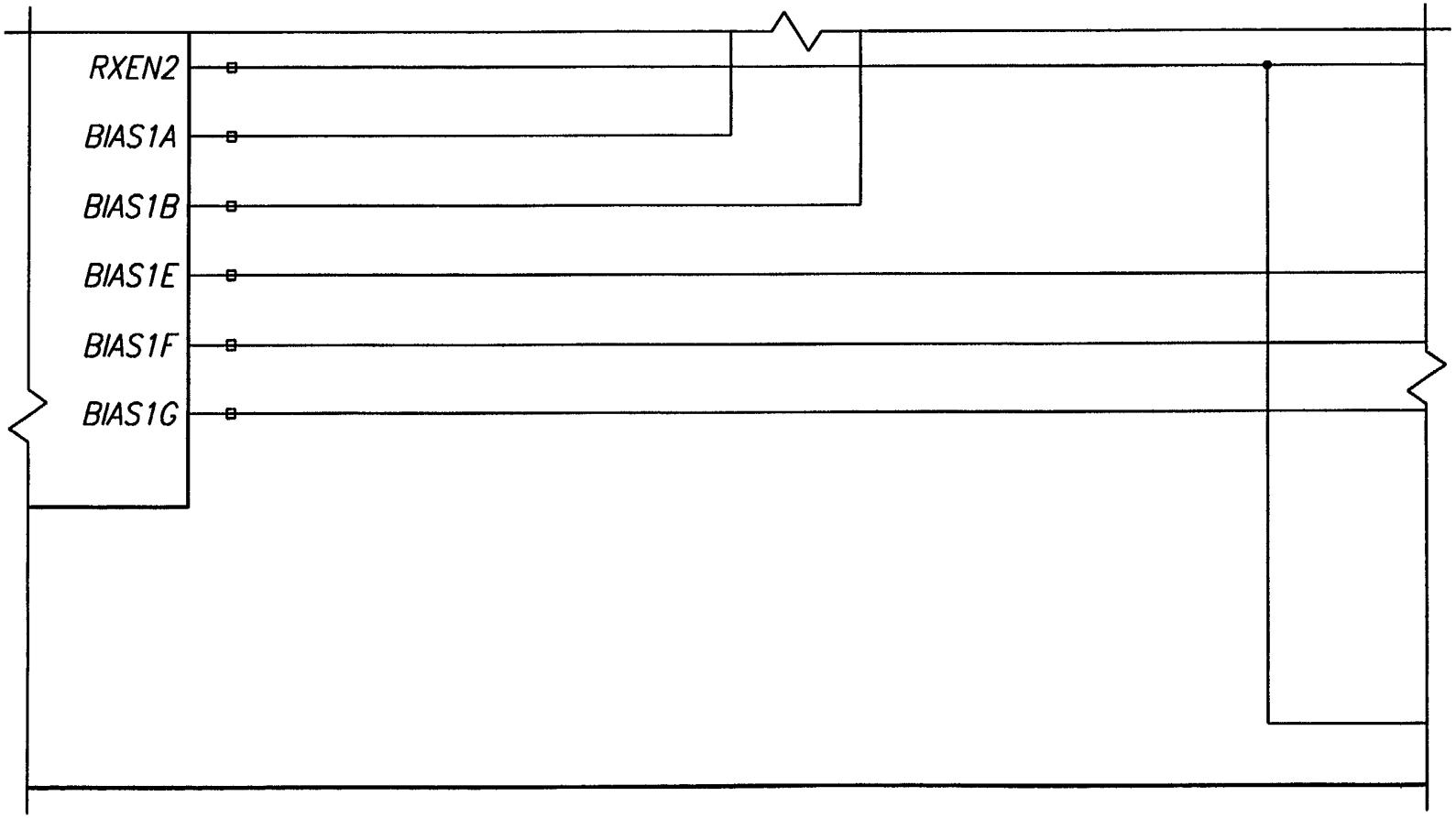


Fig 8.01DB

1118/3273

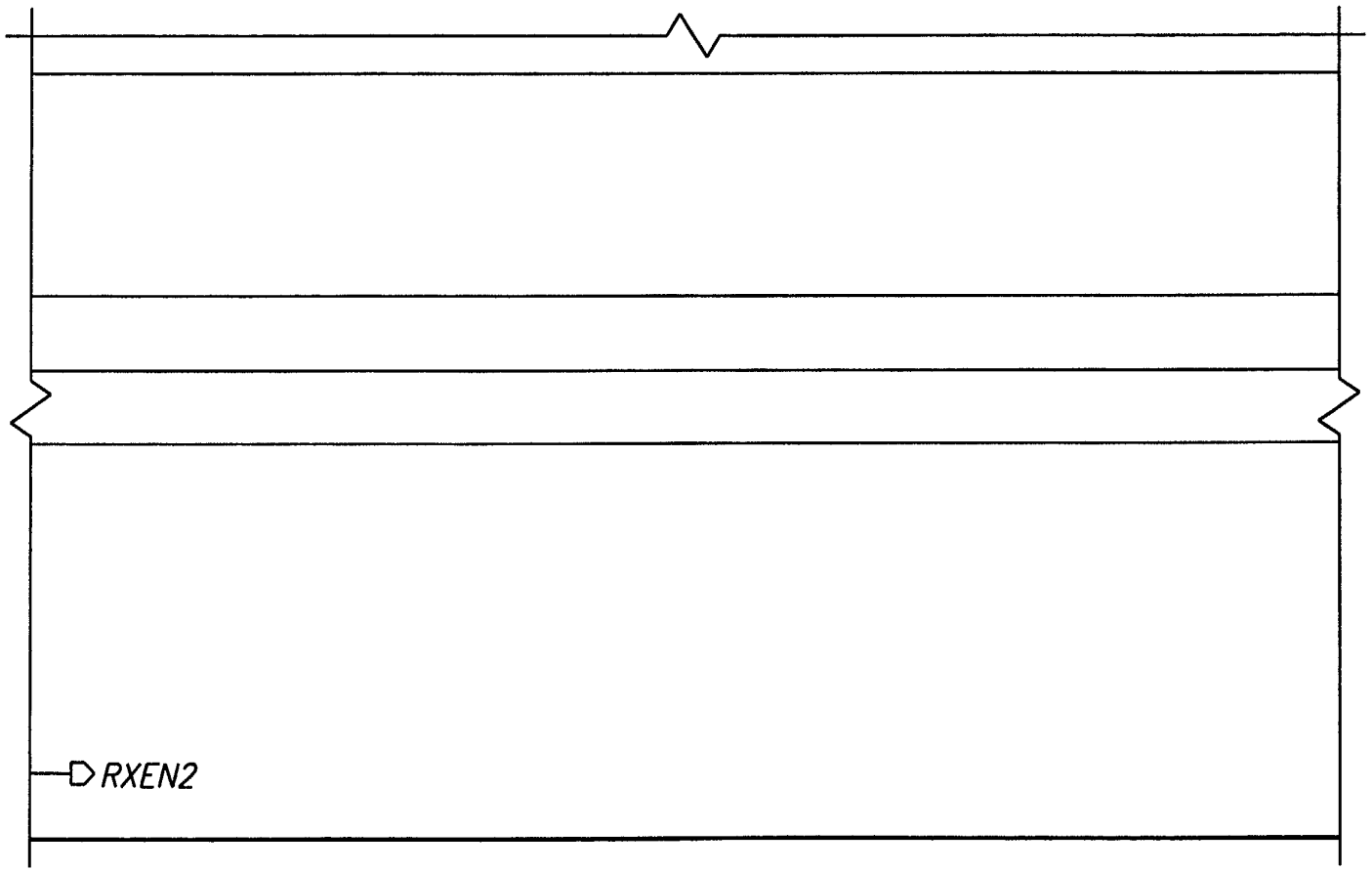
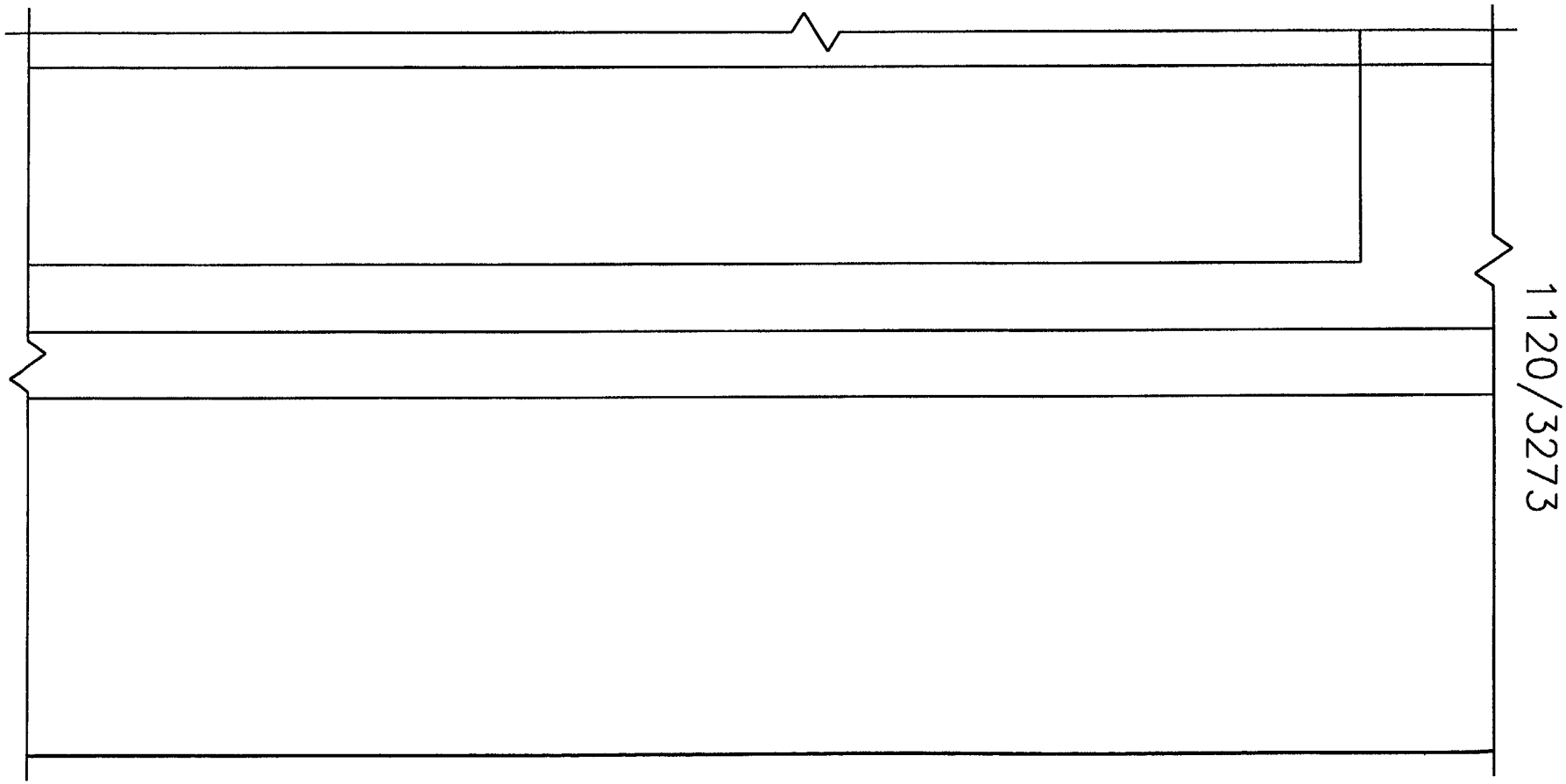


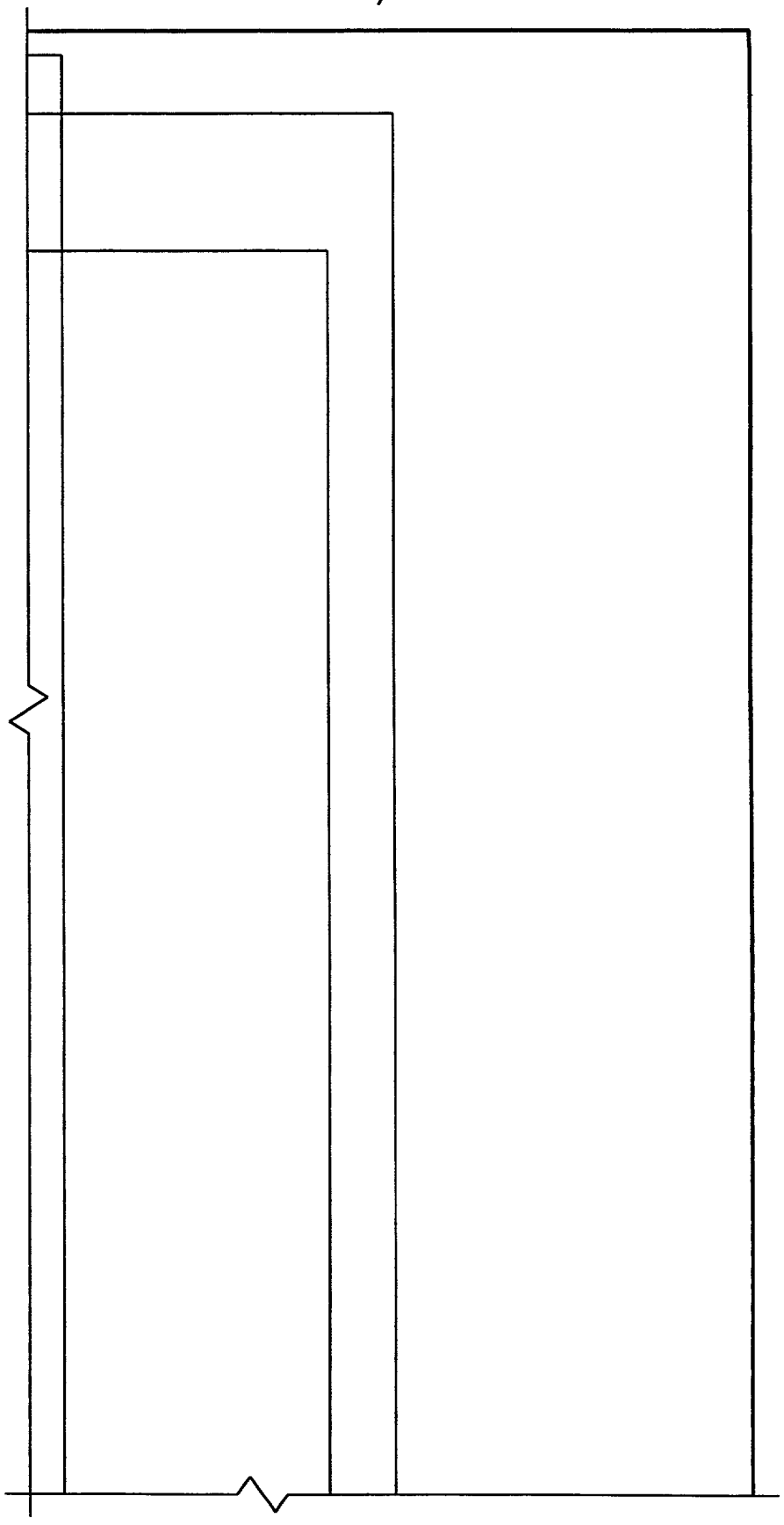
Fig 8.01DC

T0TT90"E90228G0



Ил 8.0100

1121/3273



FOR PERSONAL USE ONLY

TOTTOD"E9028860

8.0101AA	8.0101AB
8.0101BA	8.0101BB
8.0101CA	8.0101CB

Fig 8.0101

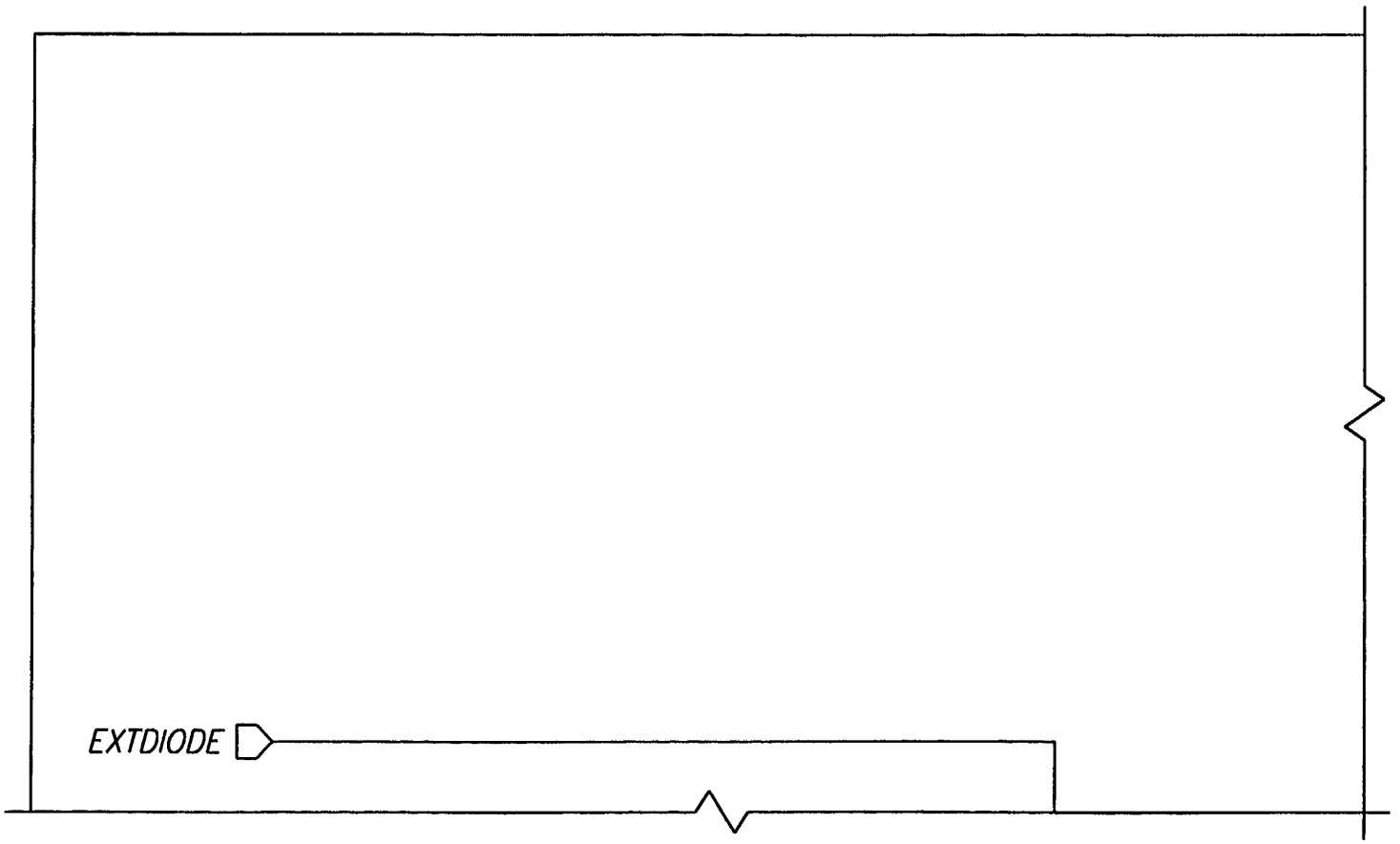


Fig 8.0101AA

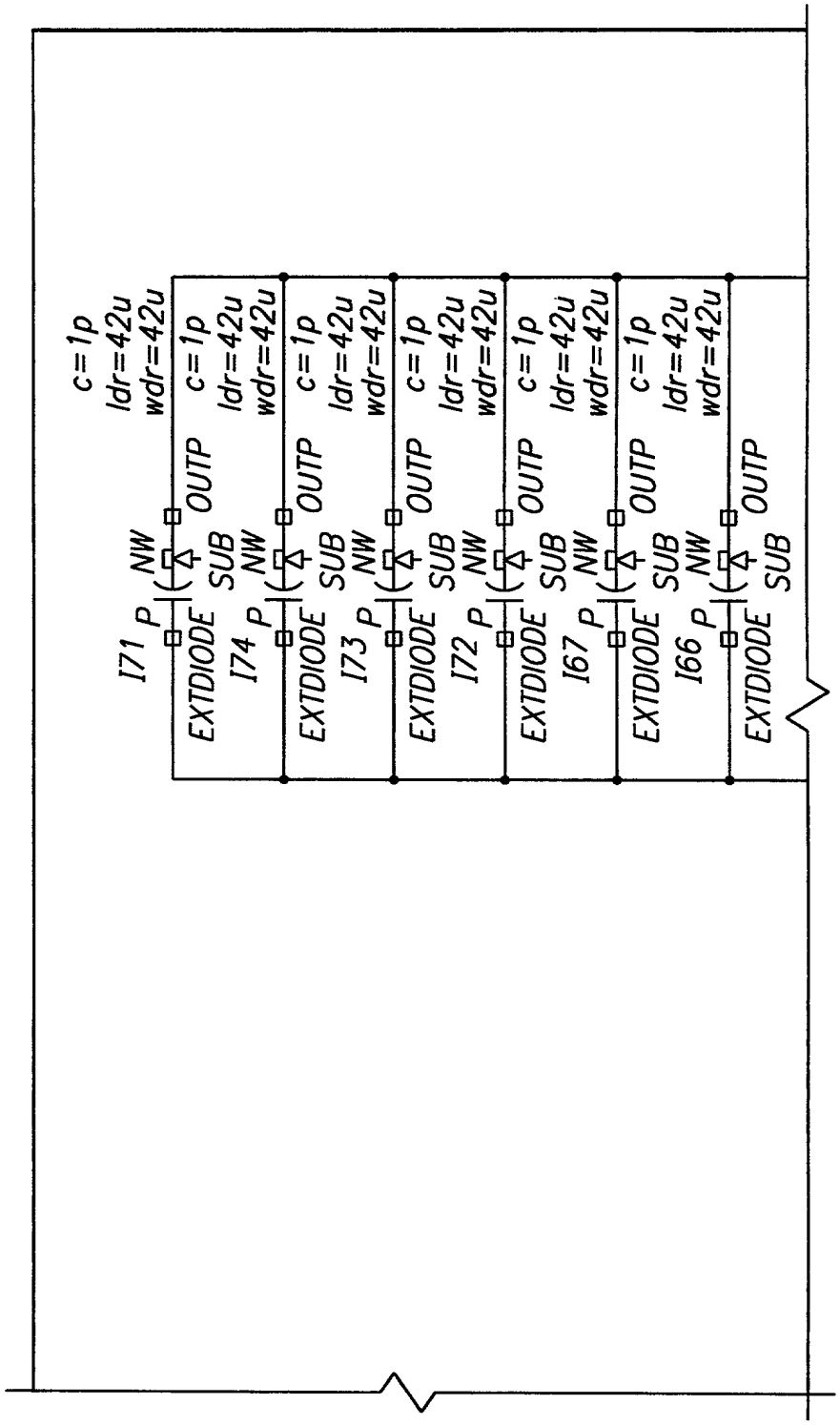


Fig. 88.011 (A)

4,904,925,950

Printed: 25.02.2004

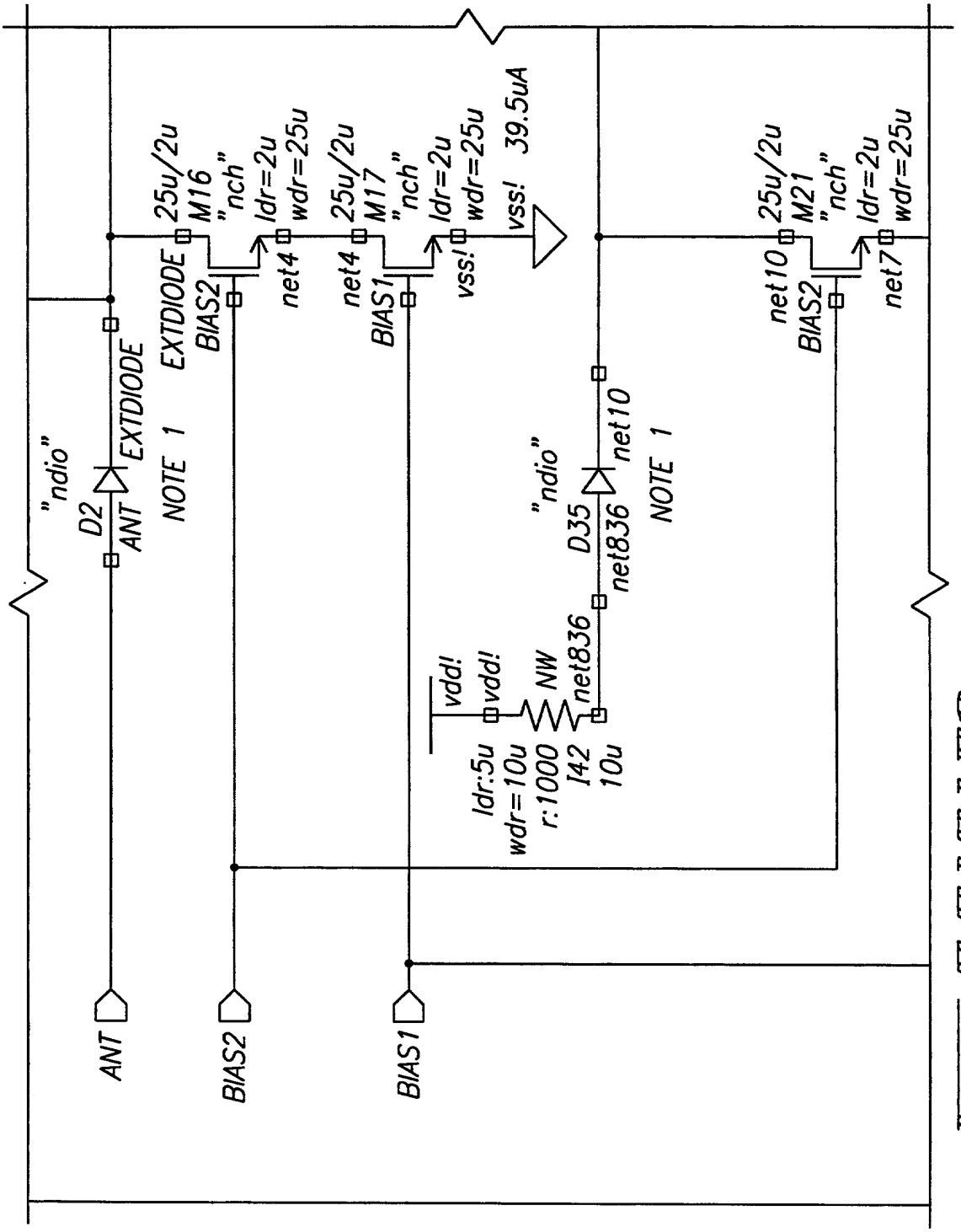
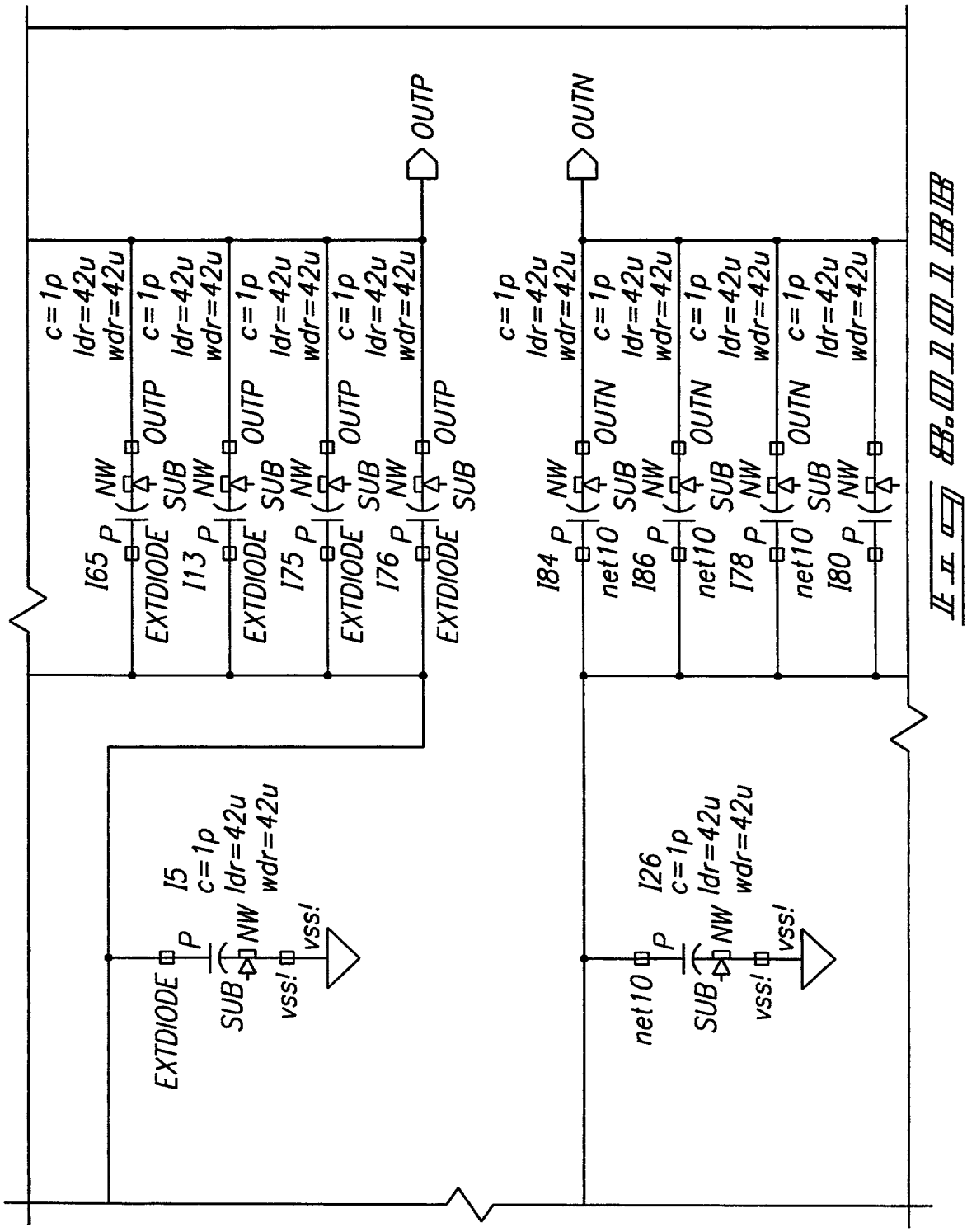


Fig 8.001 IBIA


OUTP
OUTN
I65 P
I13 P
I75 P
I76 P
I84 P
I86 P
I78 P
I80 P
I5
I26
EXTDIODE
net10
NW
SUB
OUTP
OUTN
c=1p
ldr=42u
wdr=42u
vss!

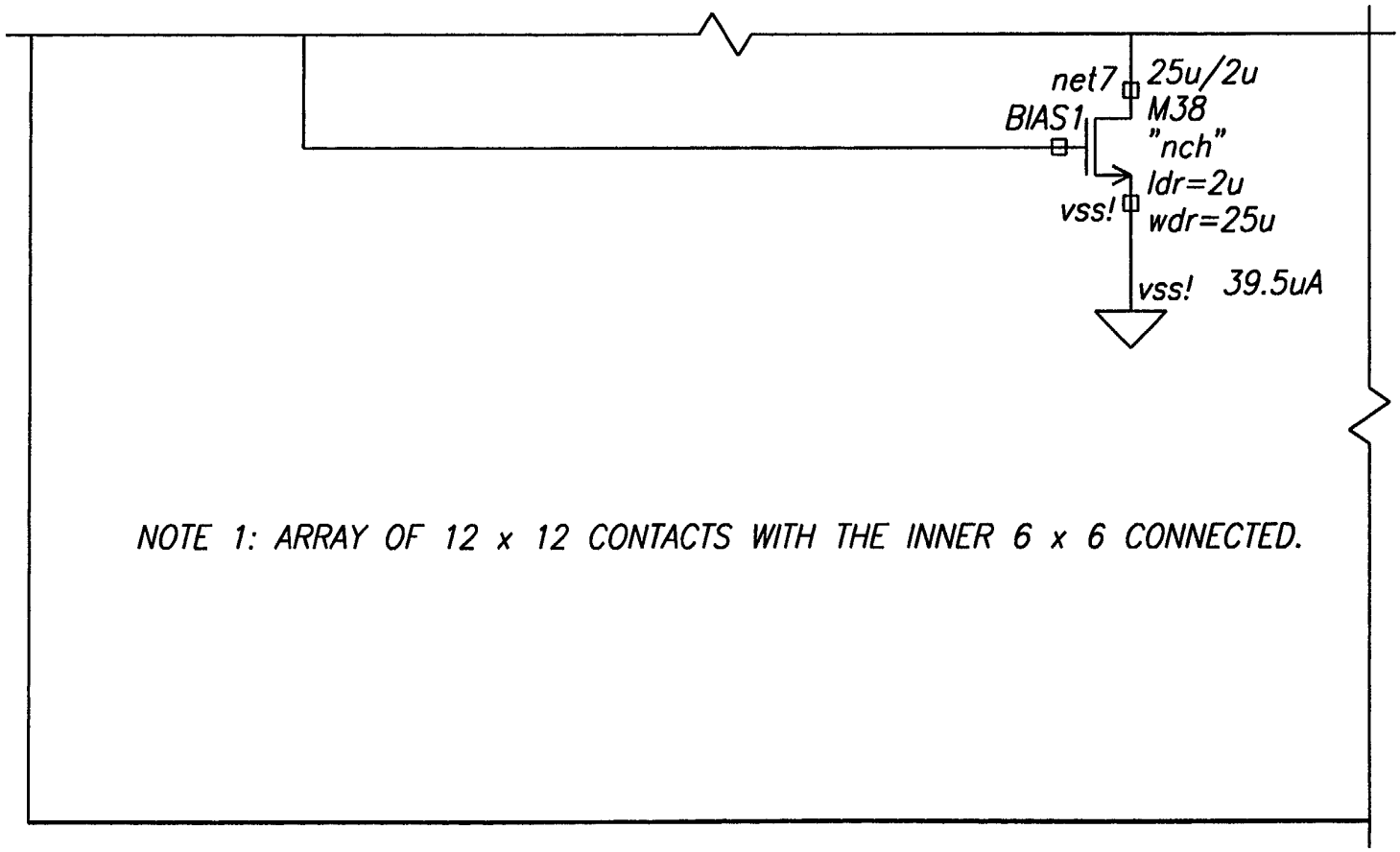
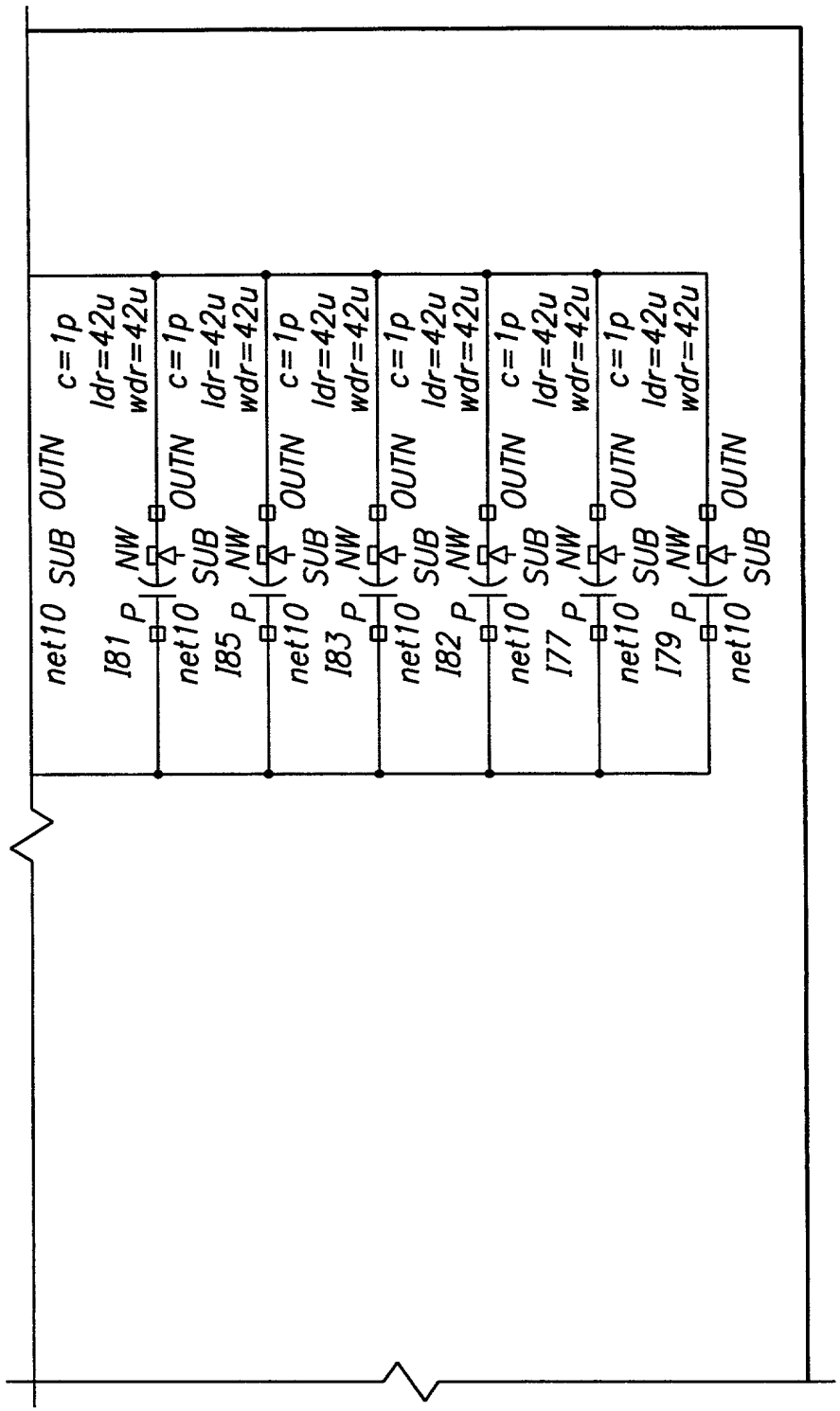

net7
25u/2u
M38
"nch"
ldr=2u
wdr=25u
BIAS1
vss!
vss!
39.5uA
NOTE 1: ARRAY OF 12 x 12 CONTACTS WITH THE INNER 6 x 6 CONNECTED.

Fig 8.0101CA



Фиг.89

US-2004-0229440-A1

TOTTOD"E90238bO

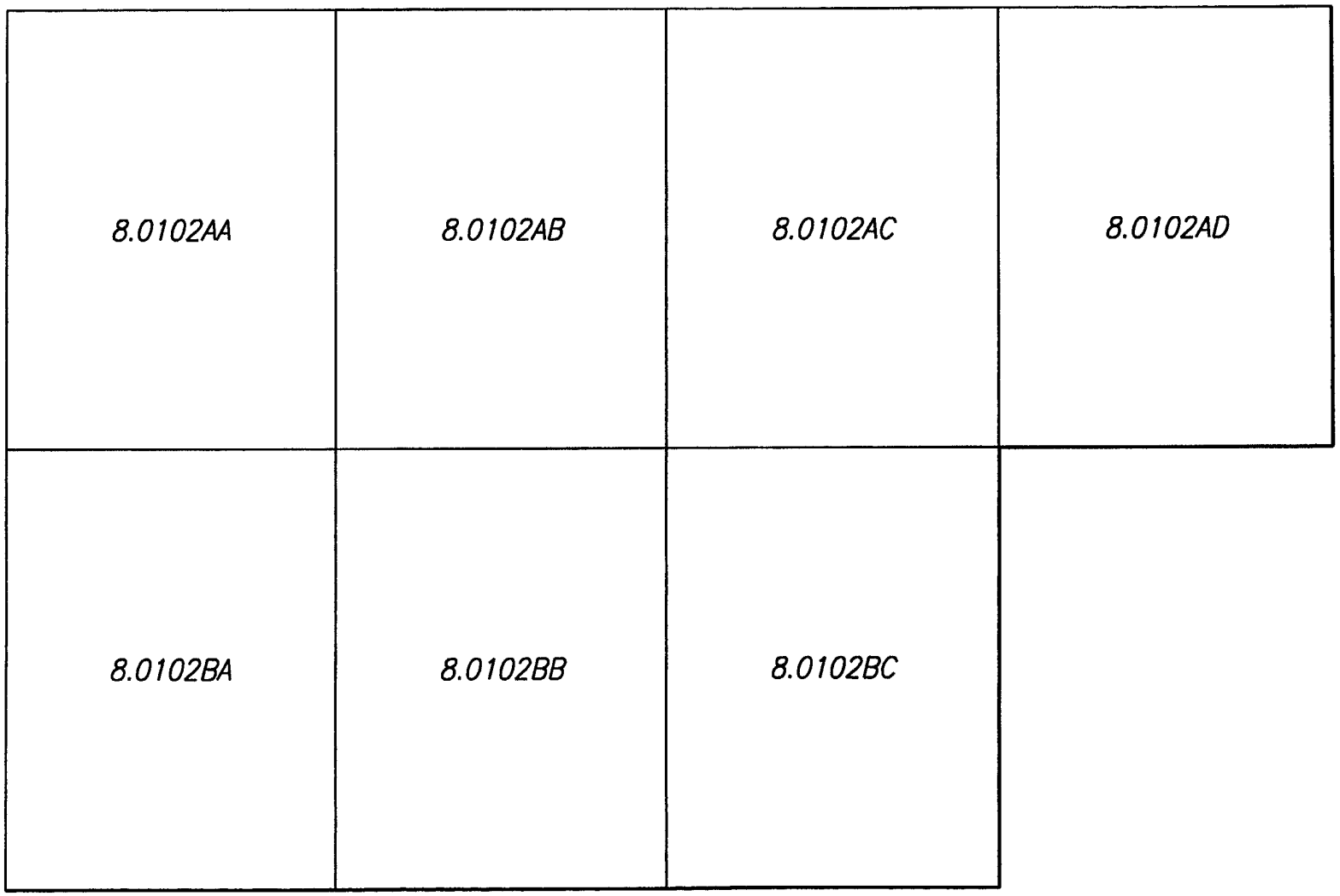
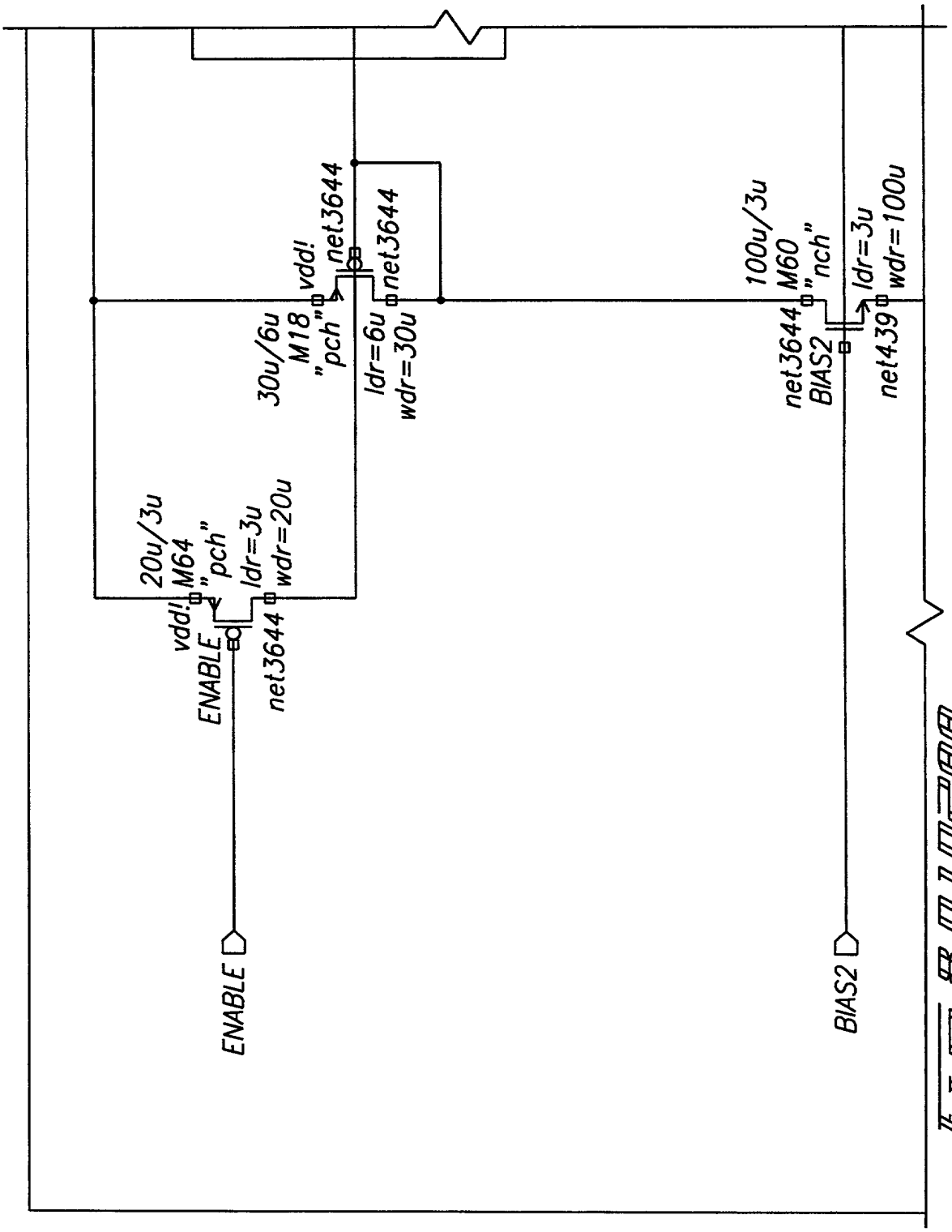
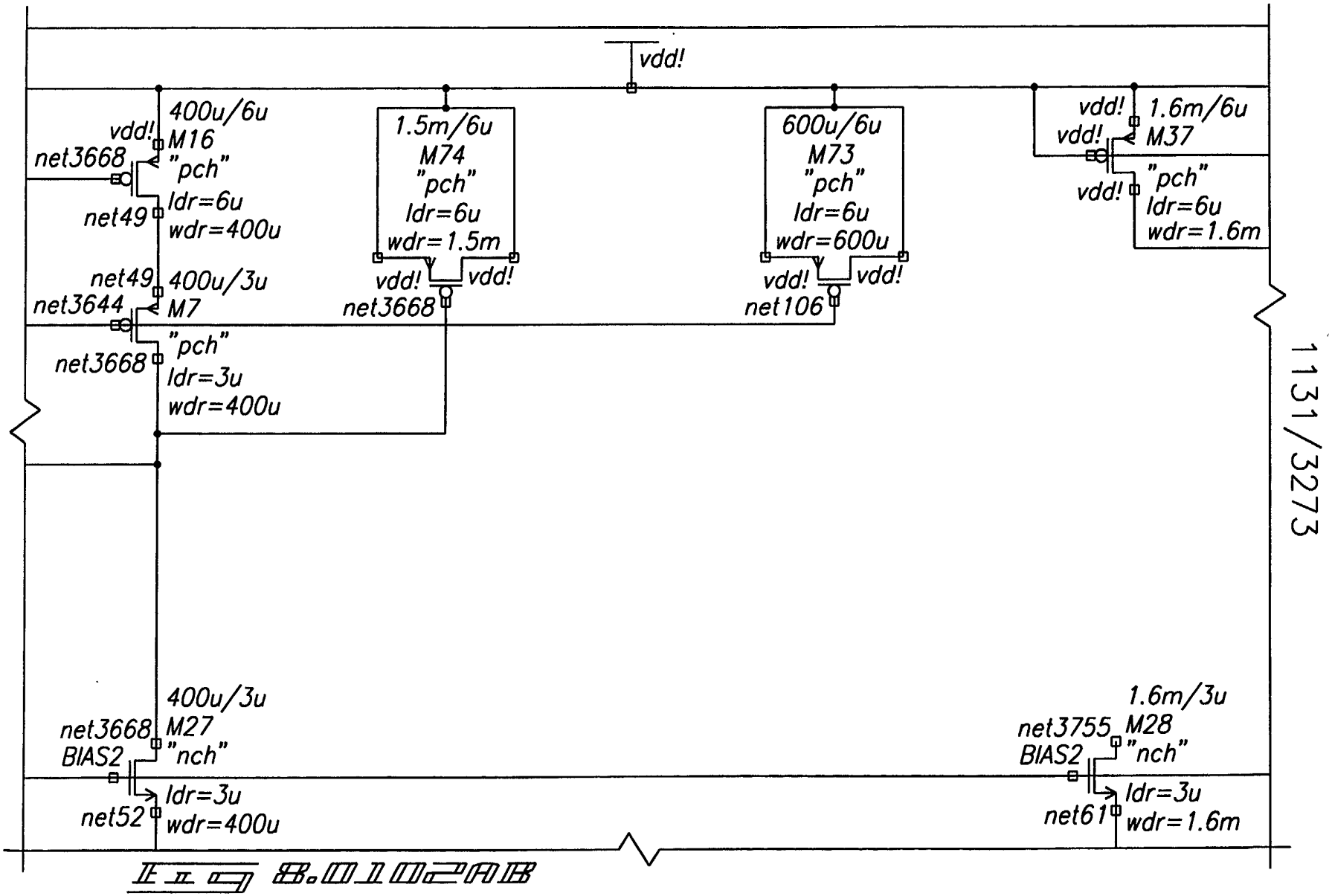
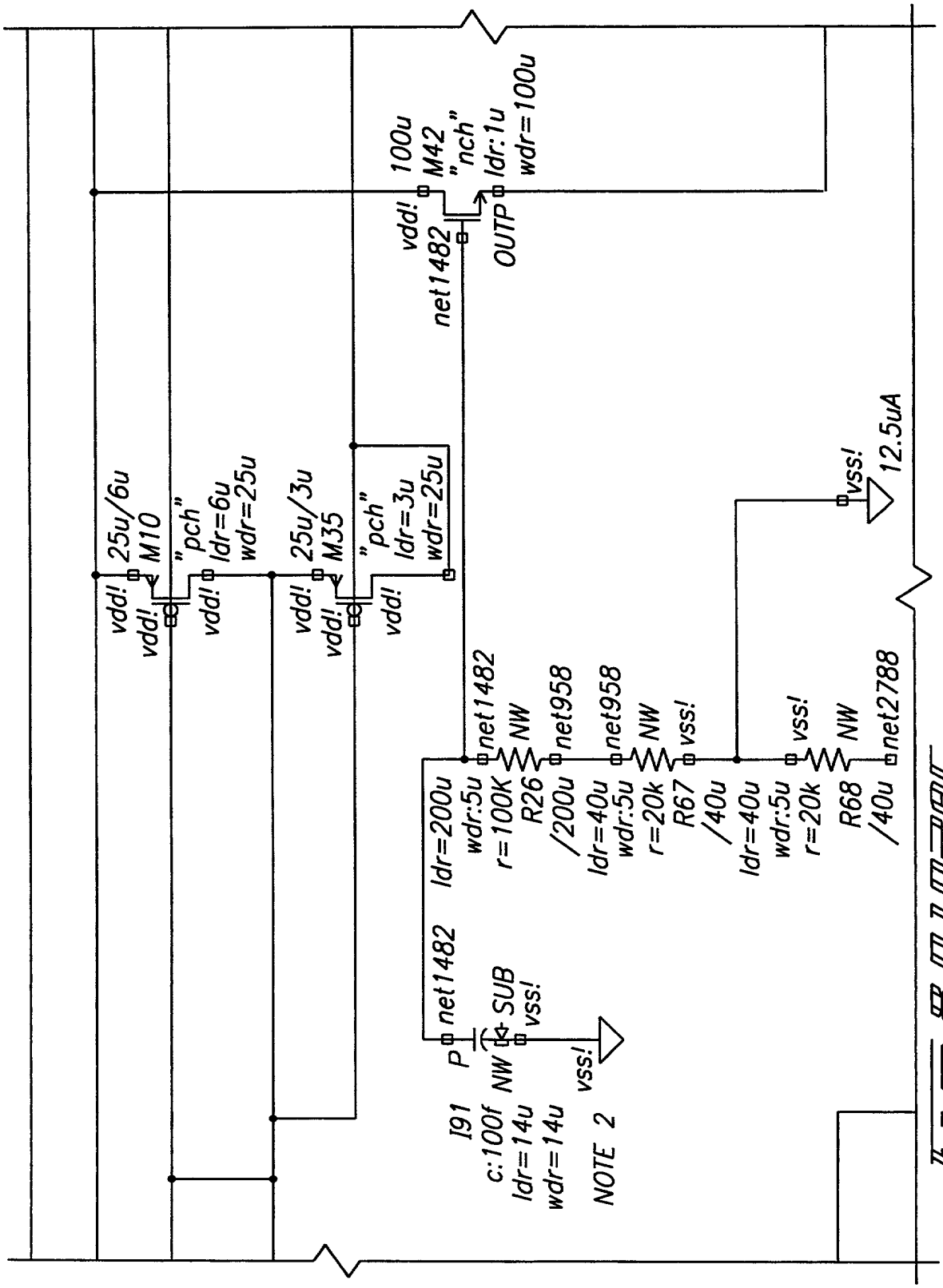


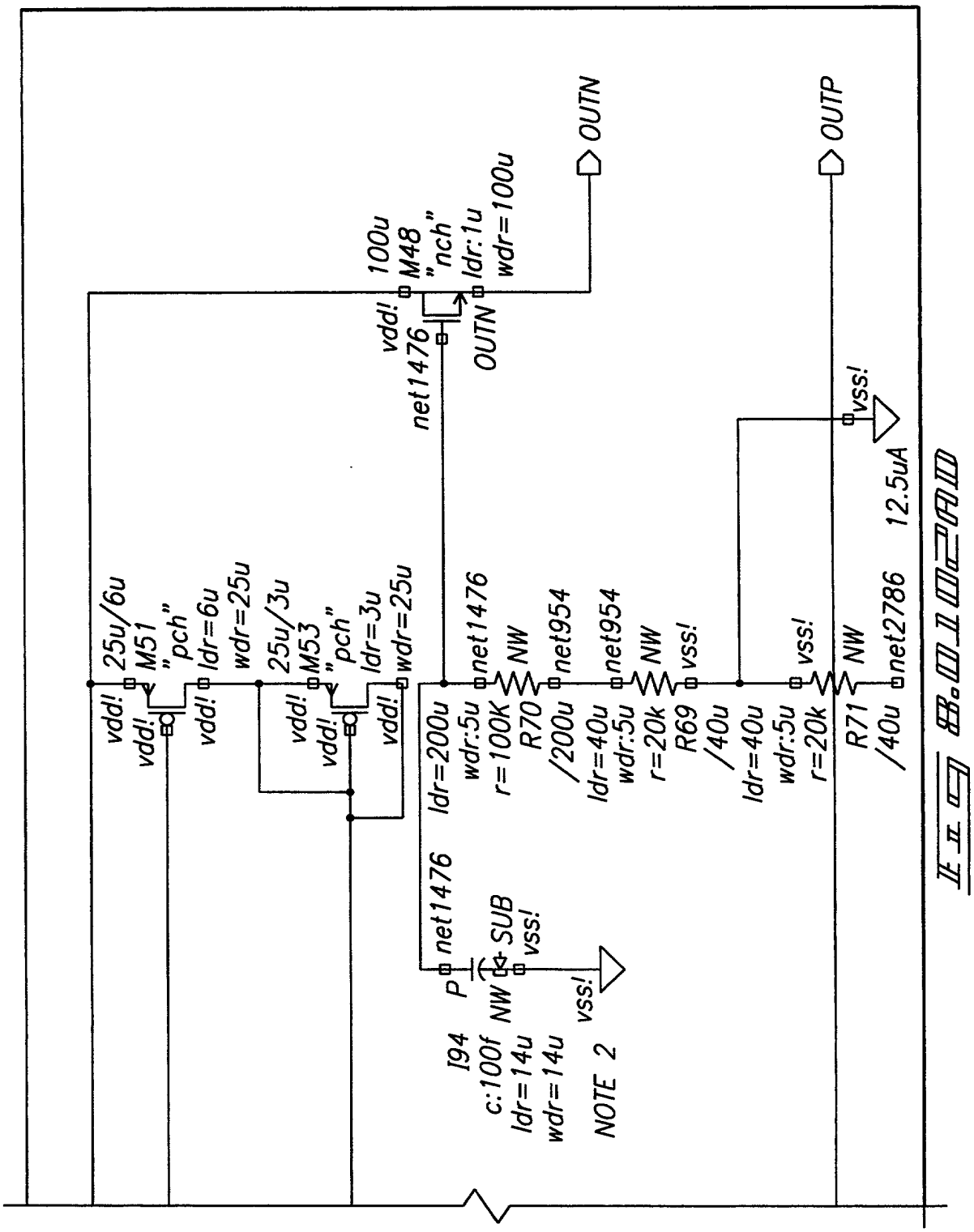
Fig 8.0102

1129/3273


20u/3u
M64
"pch"
ldr=3u
wdr=20u
vdd!
ENABLE
net3644
30u/6u
M18
"pch"
ldr=6u
wdr=30u
vdd!
net3644
net3644
100u/3u
M60
"nch"
ldr=3u
wdr=100u
net3644
BIAS2
net439
ENABLE
BIAS2


vdd!
400u/6u
M16
"pch"
ldr=6u
wdr=400u
vdd!
net3668
net49
1.5m/6u
M74
"pch"
ldr=6u
wdr=1.5m
vdd!
vdd!
net3668
600u/6u
M73
"pch"
ldr=6u
wdr=600u
vdd!
vdd!
net106
vdd!
1.6m/6u
M37
vdd!
"pch"
ldr=6u
wdr=1.6m
vdd!
net49
400u/3u
M7
"pch"
ldr=3u
wdr=400u
net3644
net3668
400u/3u
M27
"nch"
ldr=3u
wdr=400u
net3668
BIAS2
net52
1.6m/3u
M28
"nch"
ldr=3u
wdr=1.6m
net3755
BIAS2
net61


25u/6u
M10
"pch"
ldr=6u
wdr=25u
25u/3u
M35
"pch"
ldr=3u
wdr=25u
100u
M42
"nch"
ldr:1u
wdr=100u
vdd!
net1482
OUTP
vss!
12.5uA
ldr=200u
wdr:5u
r=100K
R26
/200u
net1482
NW
net958
ldr=40u
wdr:5u
r=20k
R67
/40u
net958
NW
vss!
ldr=40u
wdr:5u
r=20k
R68
/40u
vss!
NW
net2788
I91
c:100f
ldr=14u
wdr=14u
P
NW
SUB
vss!
NOTE 2


25u/6u
M51
"pch"
ldr=6u
wdr=25u
25u/3u
M53
"pch"
ldr=3u
wdr=25u
100u
M48
"nch"
ldr:1u
wdr=100u
OUTN
OUTP
vdd!
net1476
net1476
ldr=200u
wdr:5u
r=100K
R70
/200u
net954
ldr=40u
wdr:5u
r=20k
R69
/40u
vss!
ldr=40u
wdr:5u
r=20k
R71
/40u
net2786
12.5uA
I94
c:100f
ldr=14u
wdr=14u
NOTE 2
P
NW
SUB
vss!
NW

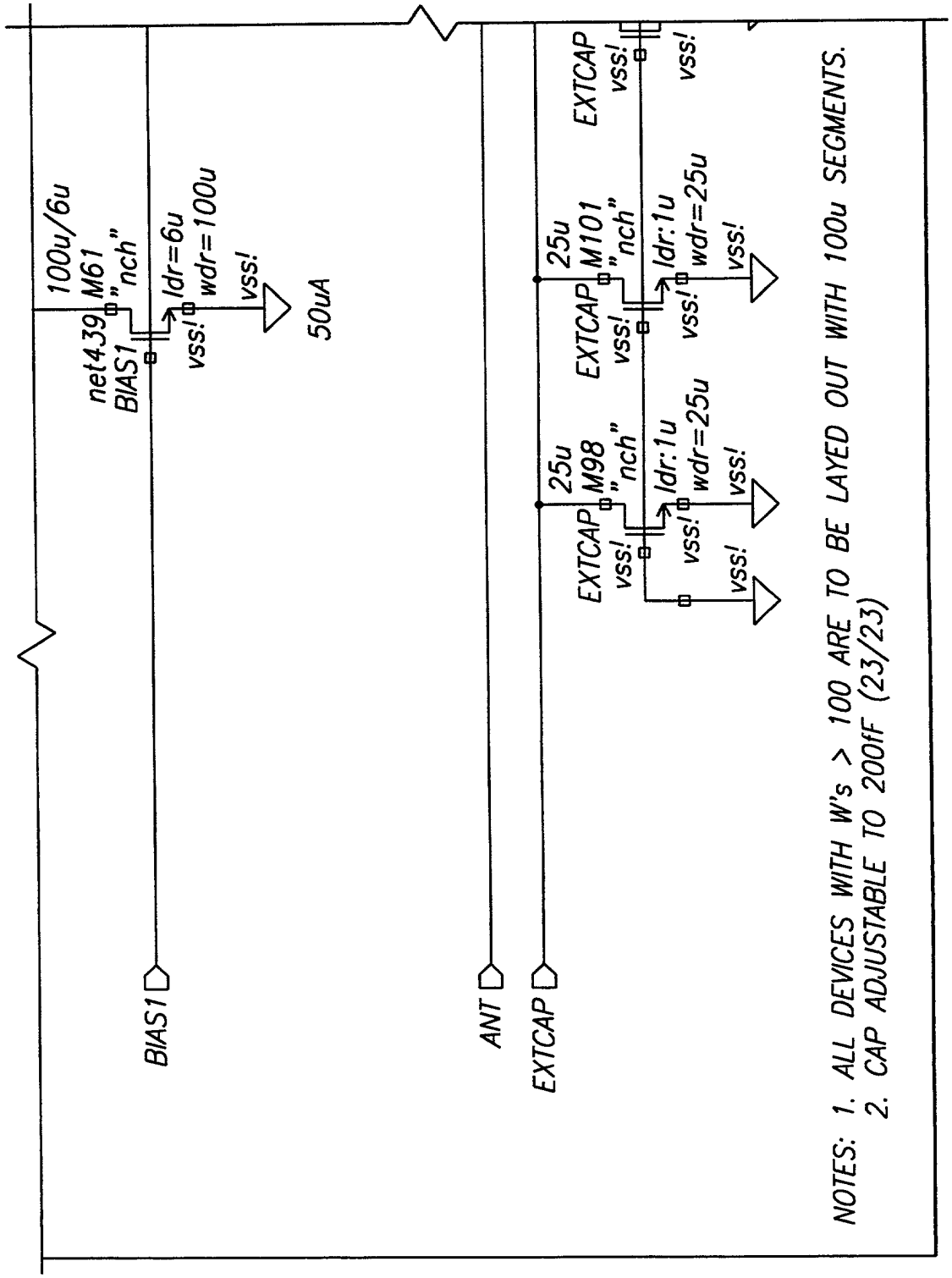
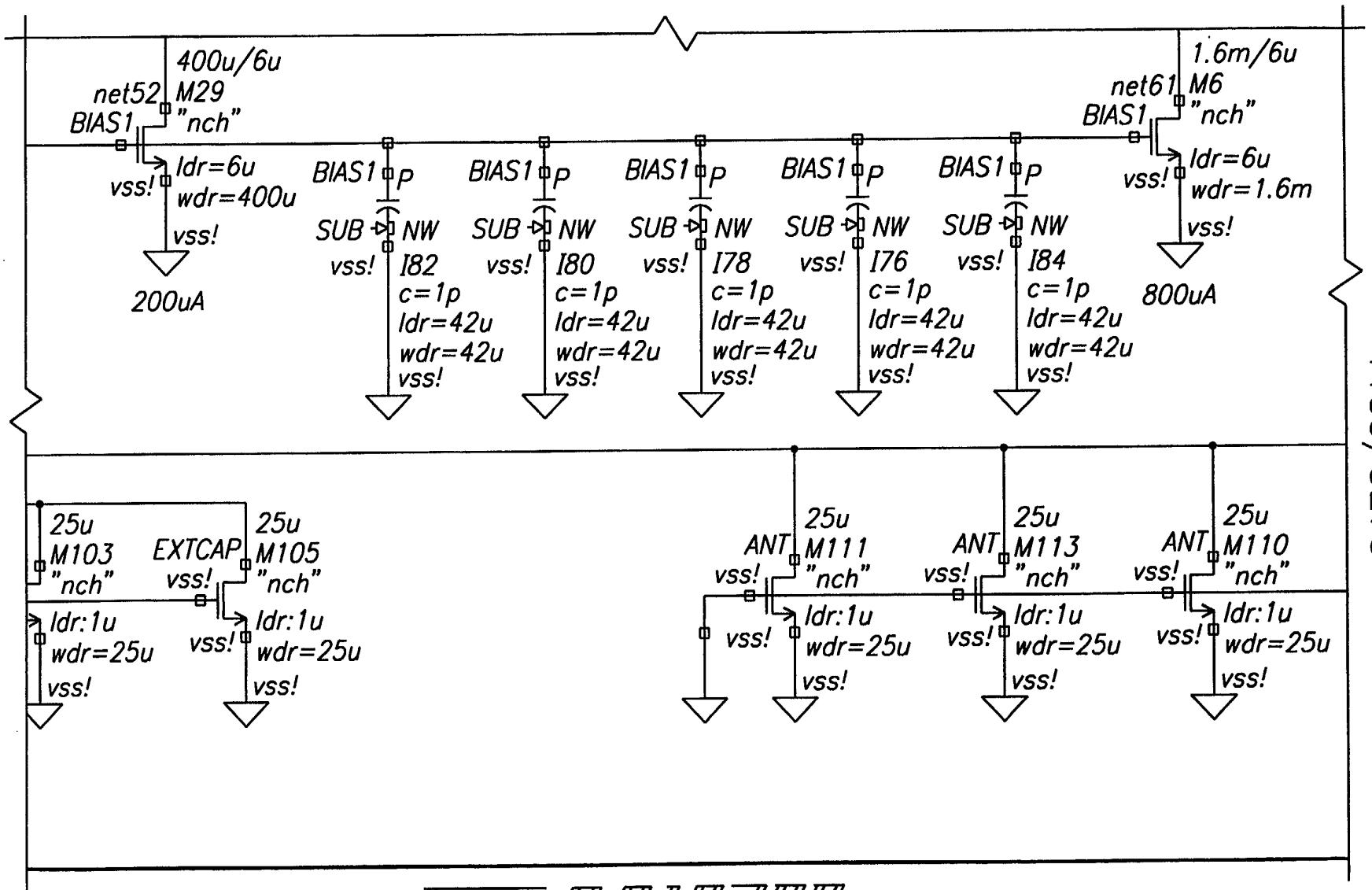


FIG 8.00 (PRIOR ART)



1135/3273

Fig 8.0102B

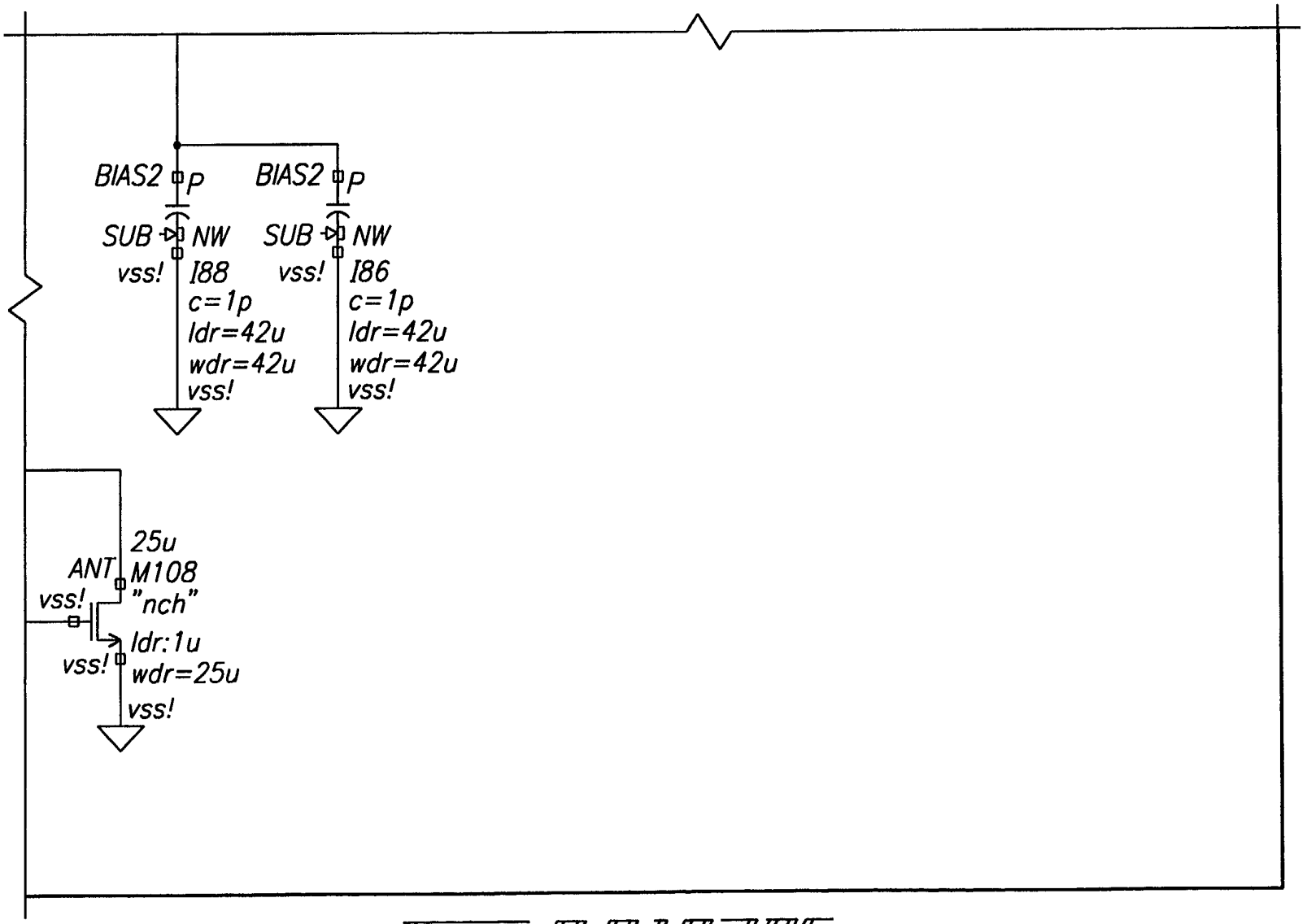
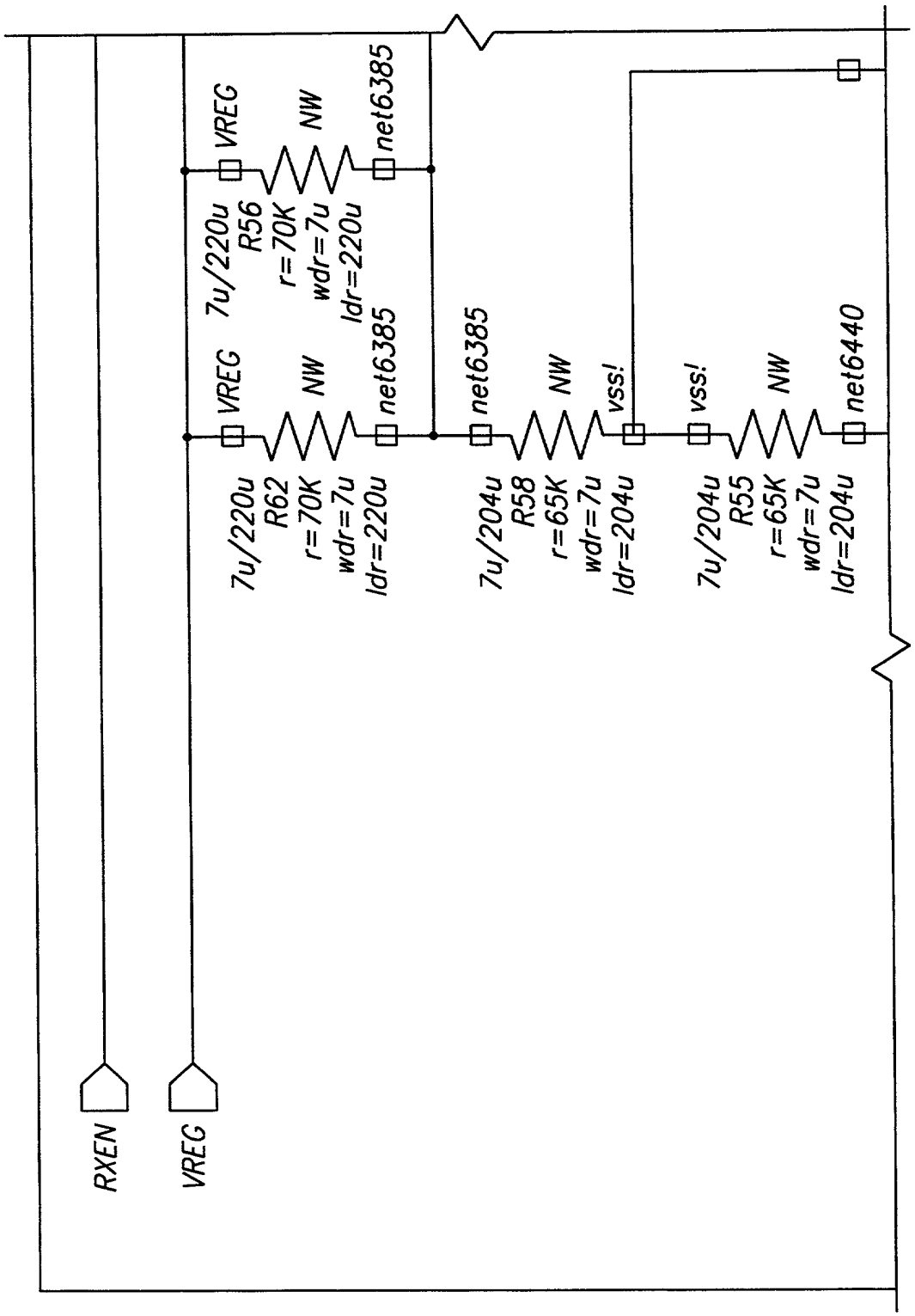

BIAS2
P
SUB
NW
vss!
I88
c=1p
ldr=42u
wdr=42u
vss!
BIAS2
P
SUB
NW
vss!
I86
c=1p
ldr=42u
wdr=42u
vss!
ANT
25u
M108
"nch"
vss!
ldr:1u
vss!
wdr=25u
vss!

Fig 8.0102BC

8.0103AA	8.0103AB	8.0103AC	8.0103AD	8.0103AE	8.0103AF
8.0103BA	8.0103BB	8.0103BC	8.0103BD	8.0103BE	8.0103BF
8.0103CA	8.0103CB	8.0103CC	8.0103CD	8.0103CE	8.0103CF

Fig 8.0103



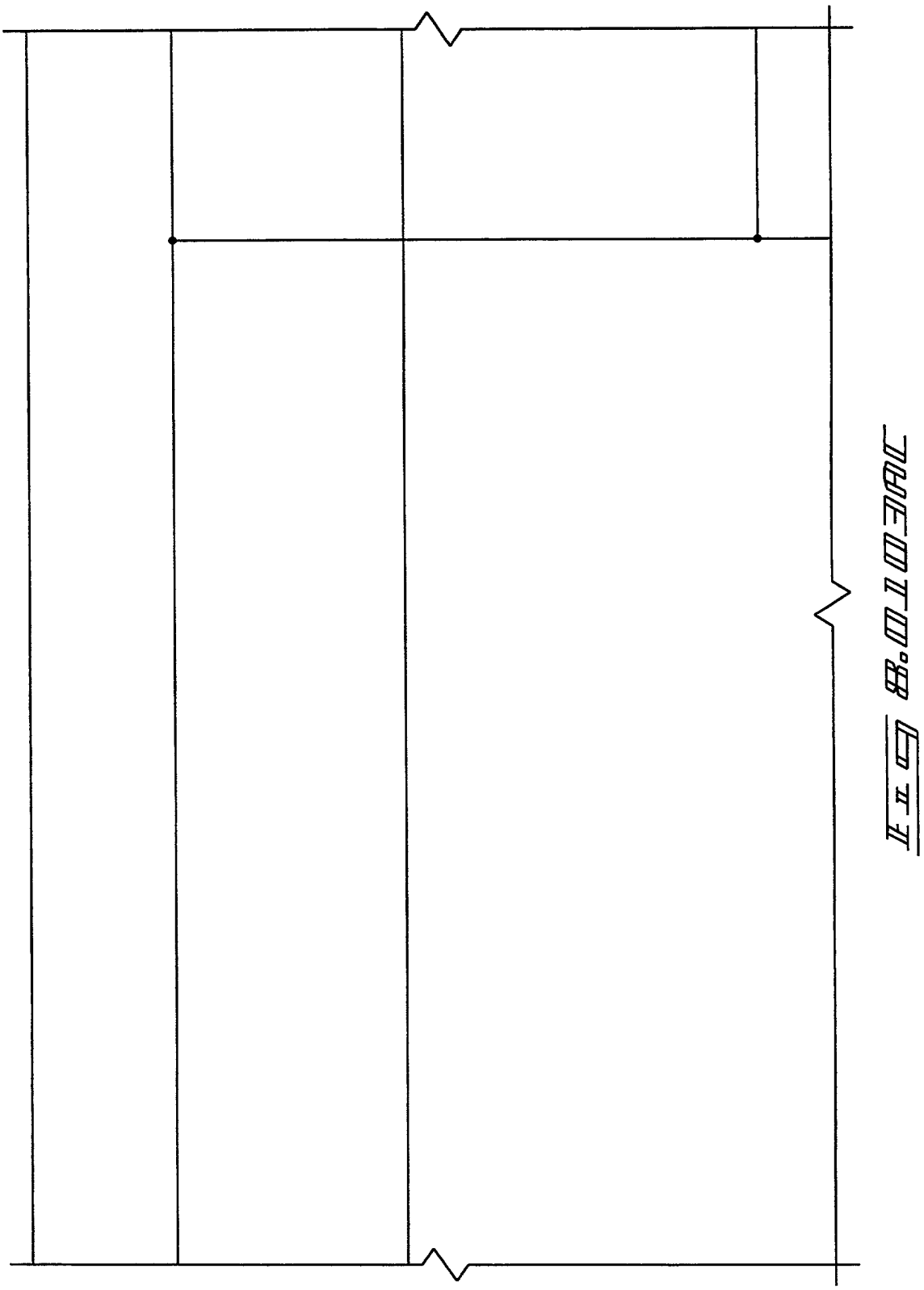
ФИГ 58

1.0.17.250.2505225.0

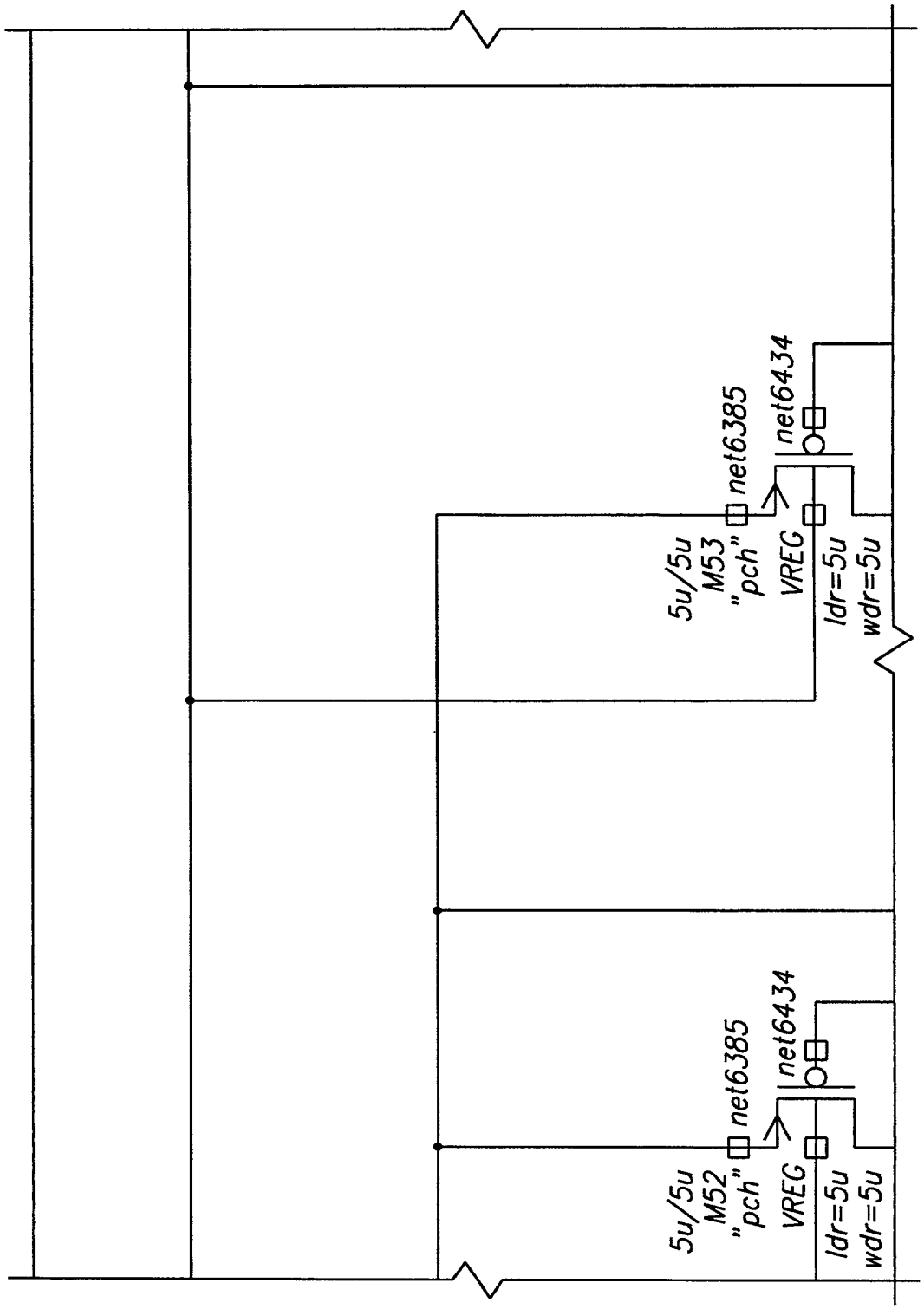
1139/3273

1139/3273 - 0952295

1140/3273

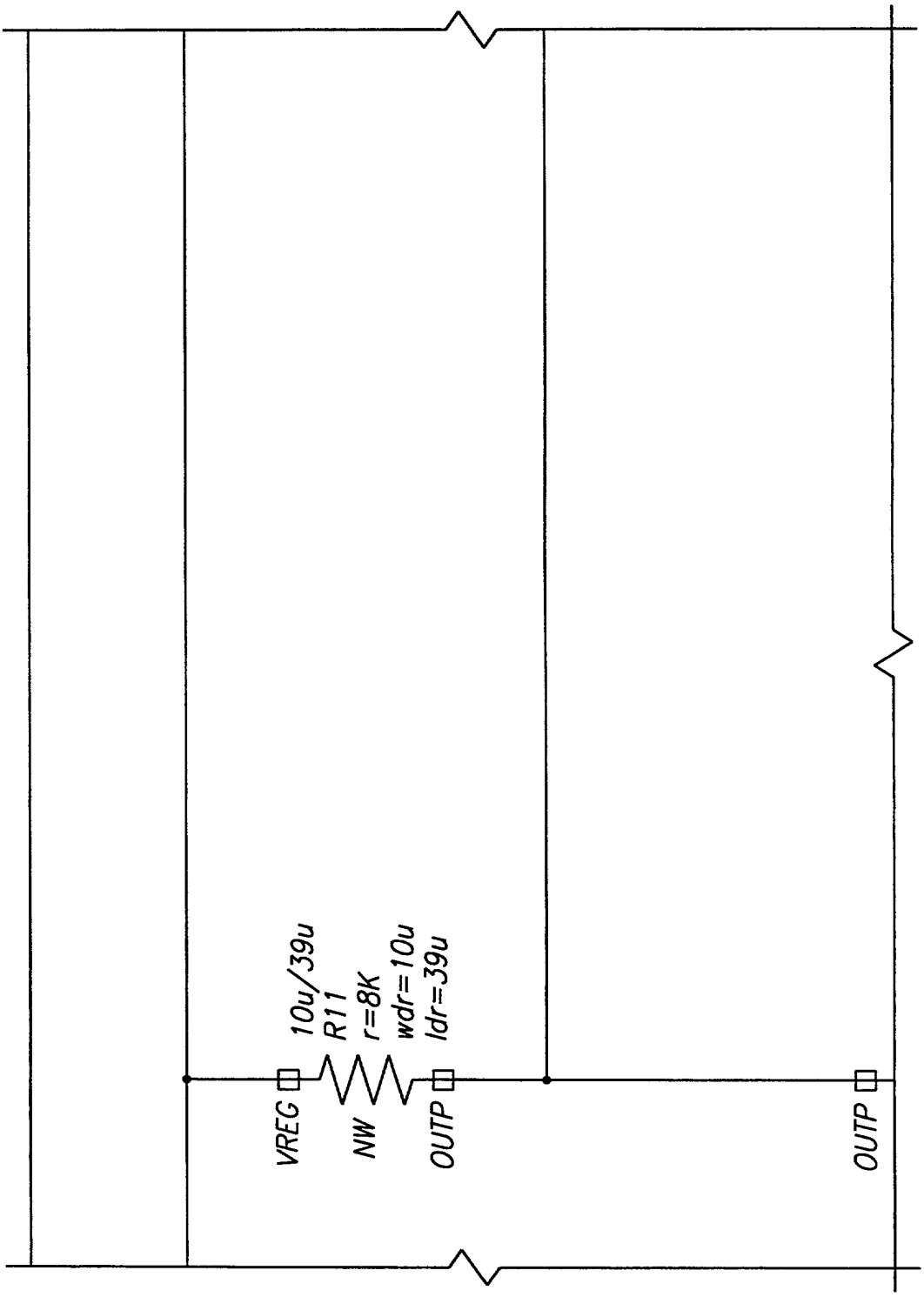


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Фиг. 8

RU 2014126294 A



ФИГ. 88

EP 0 994 509 A1

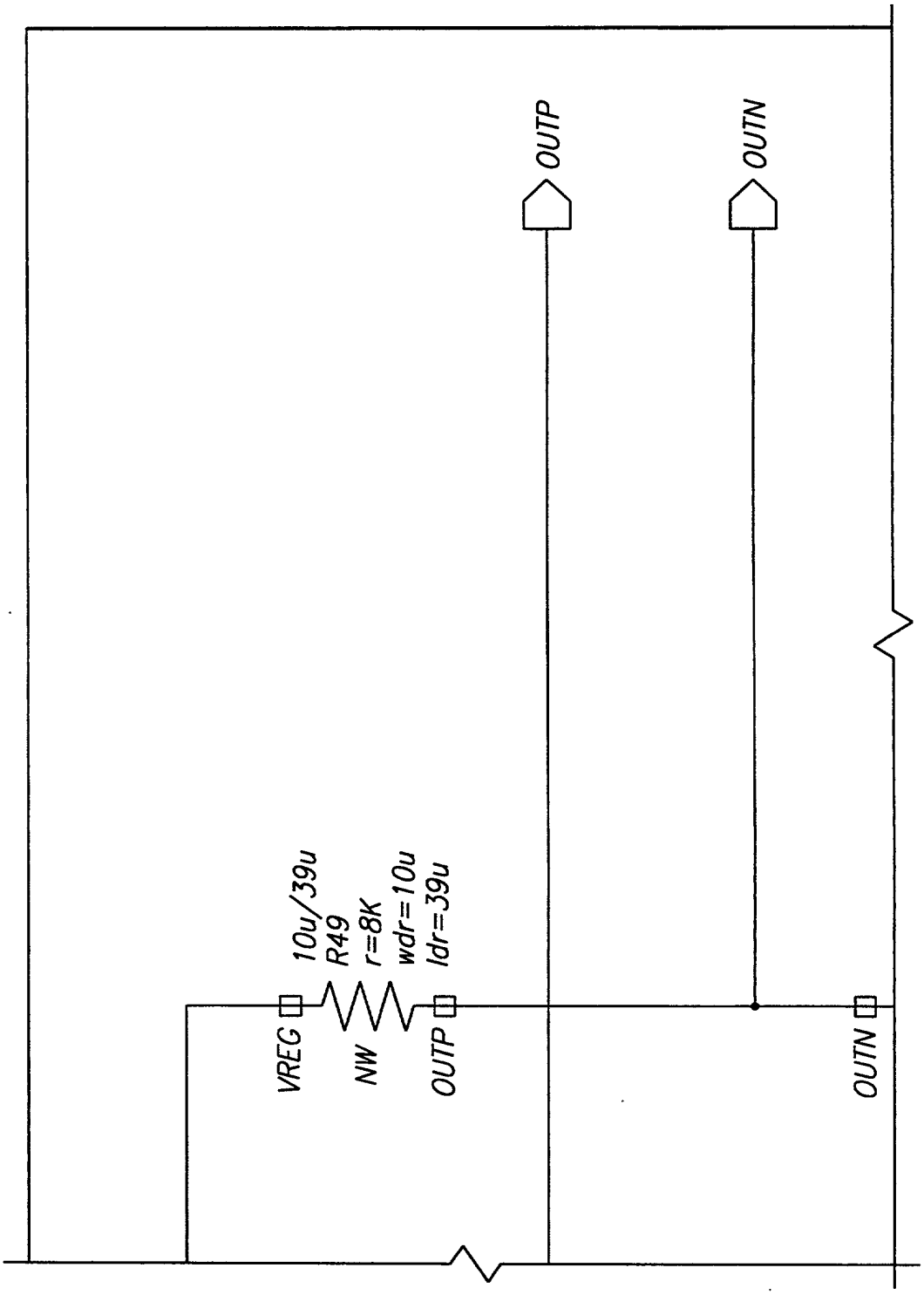
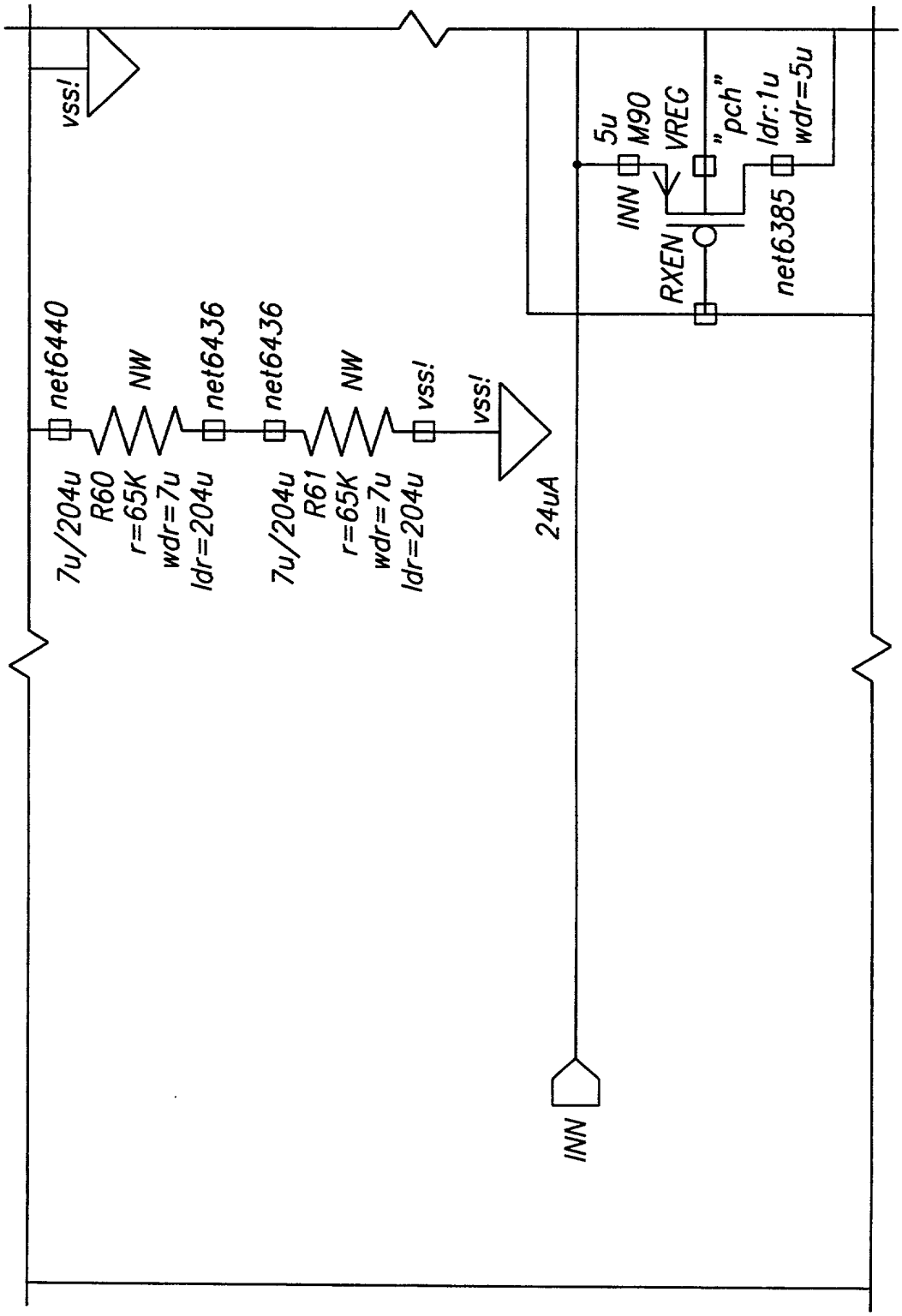
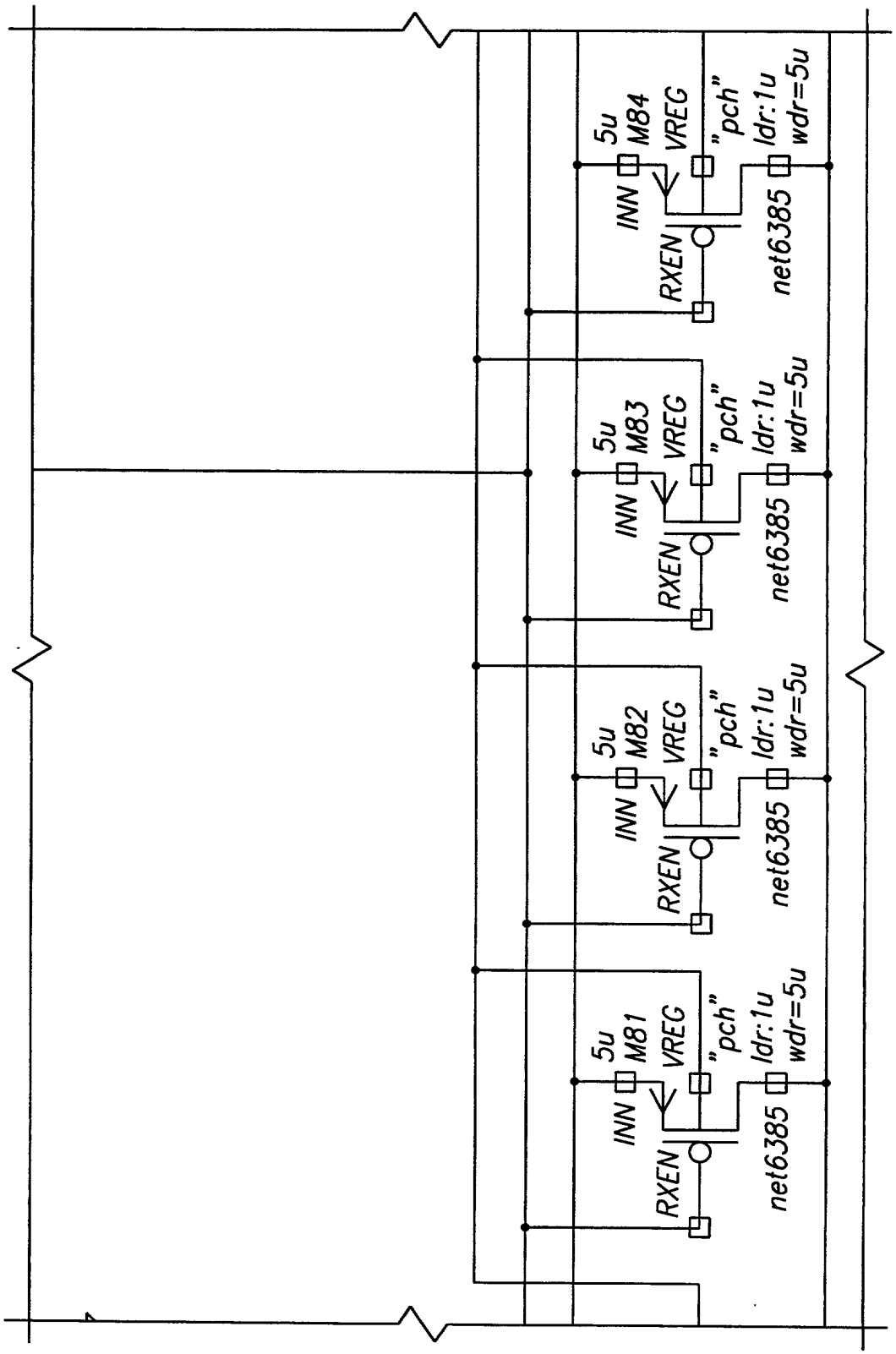


FIG. 88.00 PRIOR ART



Фиг. 88.00

1C1C4D0 E0C2B6D


5u
M84
VREG
"pch"
ldr:1u
wdr=5u
INN
RXEN
net6385
5u
M83
VREG
"pch"
ldr:1u
wdr=5u
INN
RXEN
net6385
5u
M82
VREG
"pch"
ldr:1u
wdr=5u
INN
RXEN
net6385
5u
M81
VREG
"pch"
ldr:1u
wdr=5u
INN
RXEN
net6385

Фиг. 3

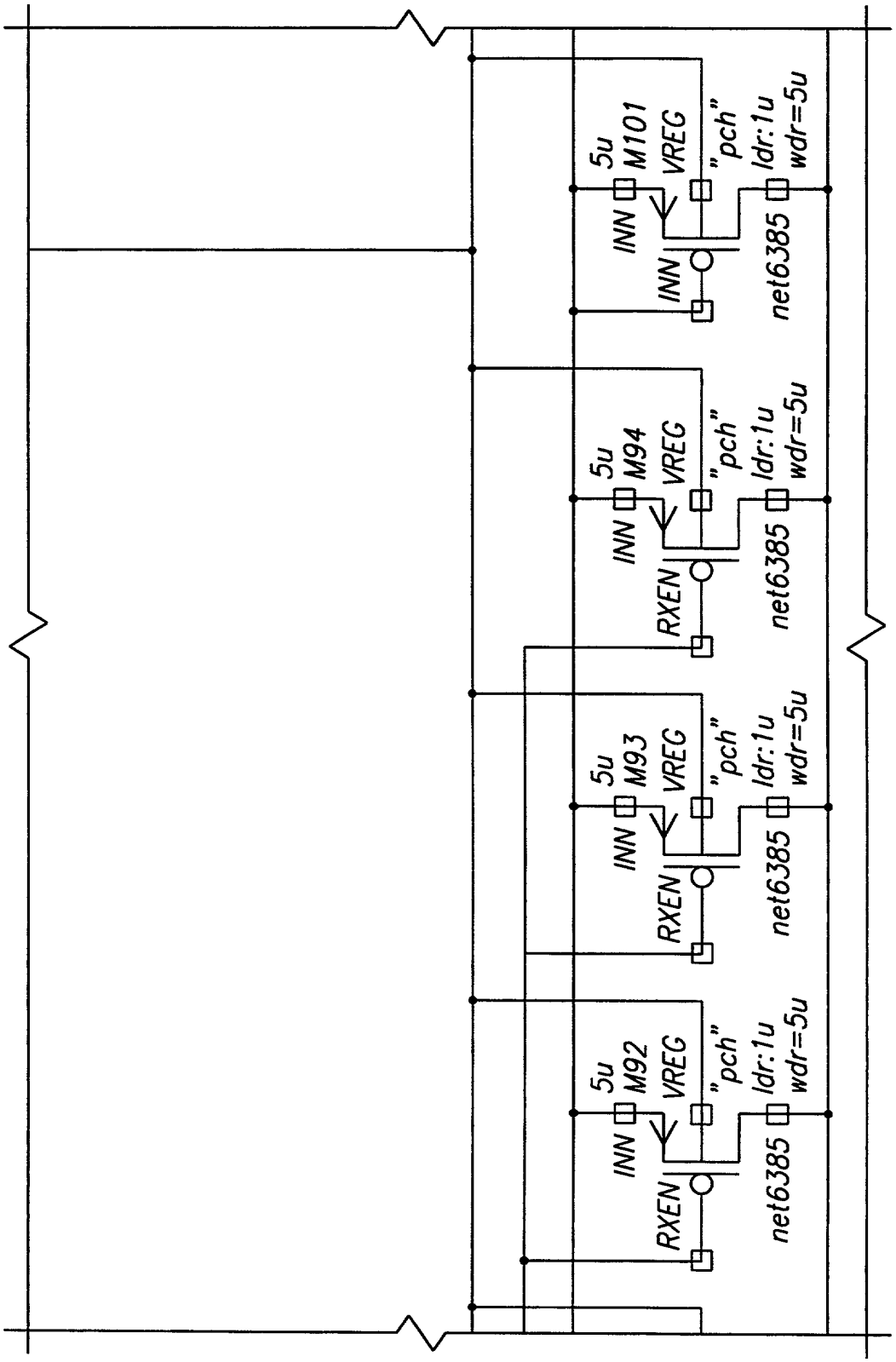
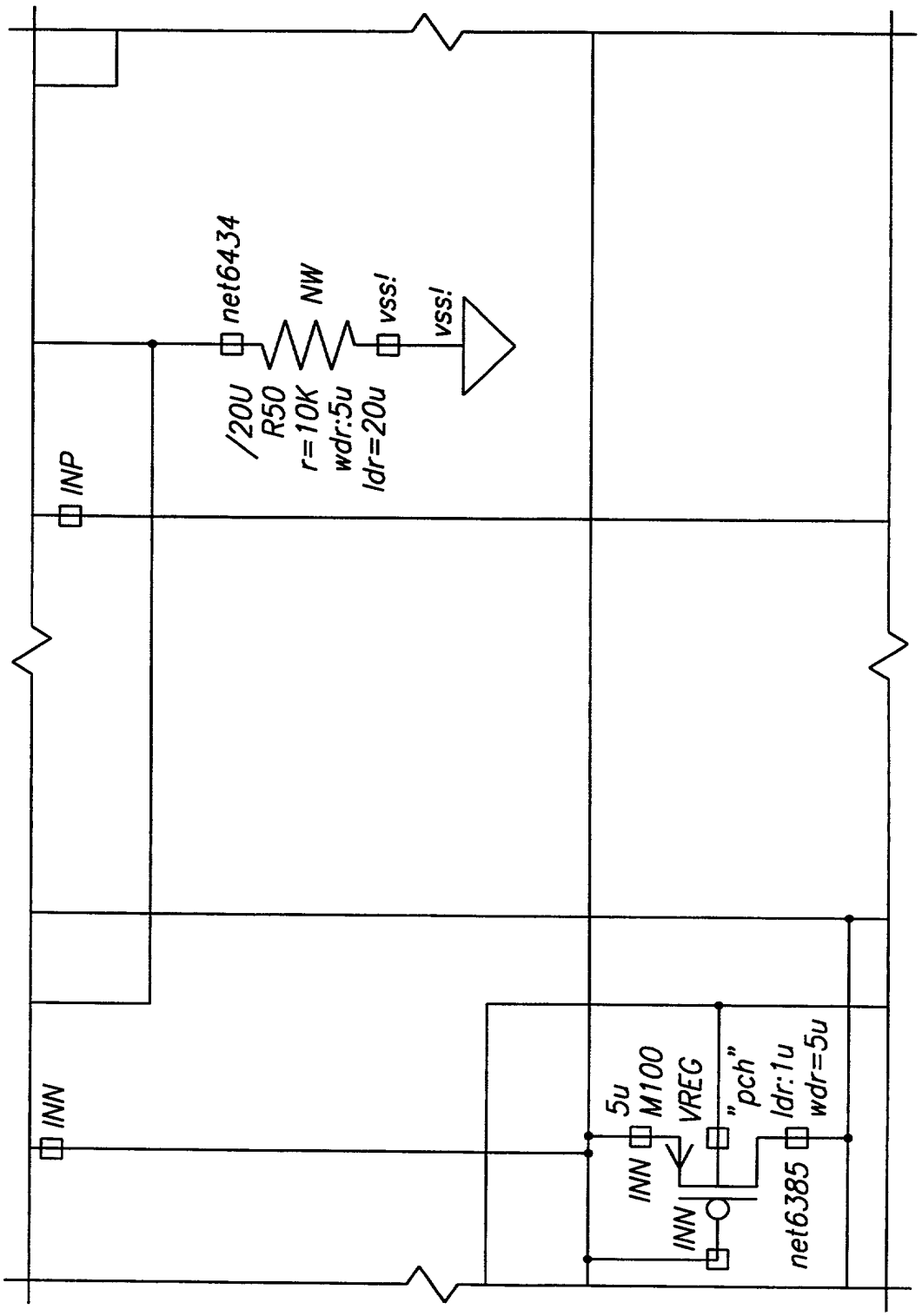
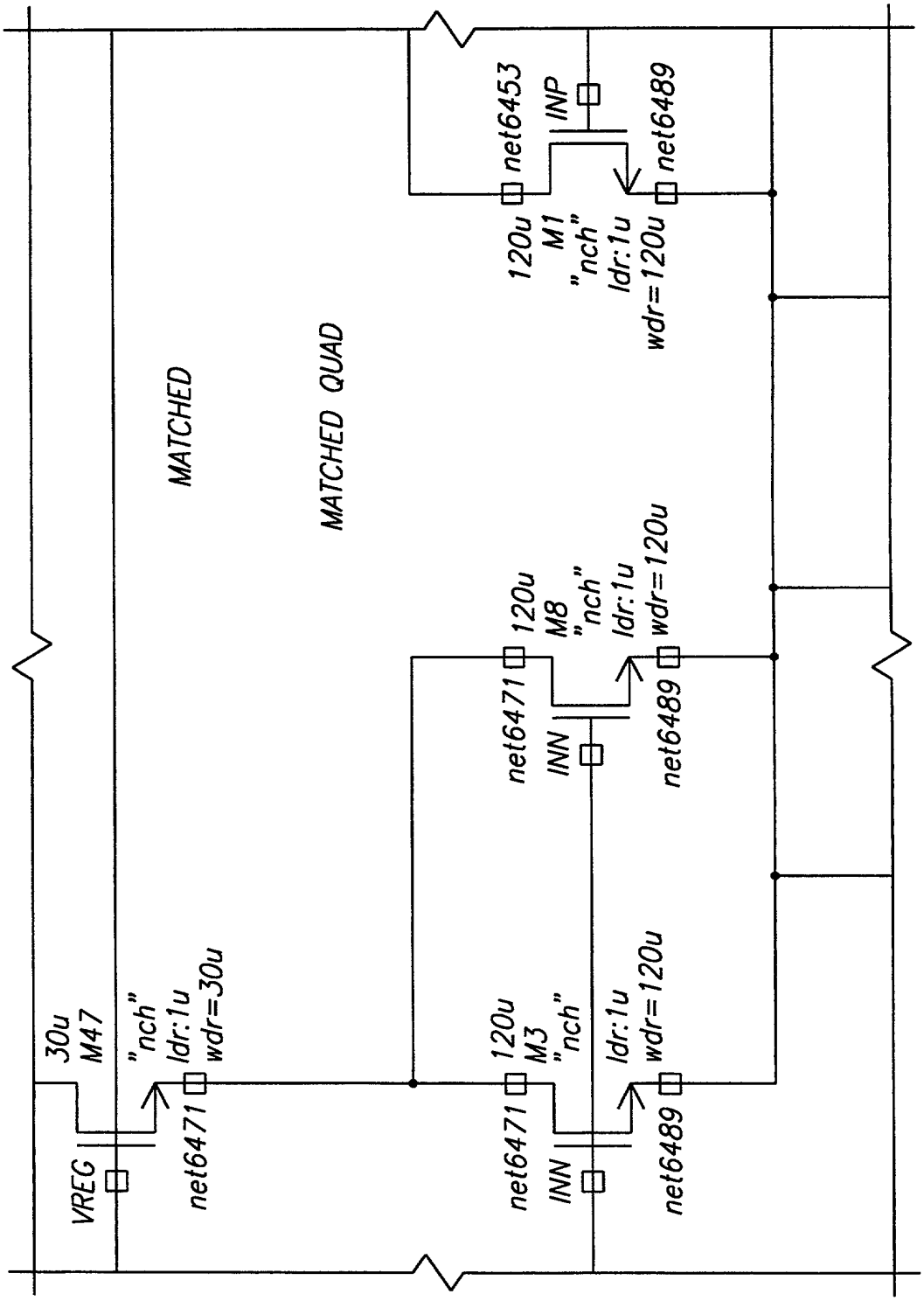


FIG. 6B (PRIOR ART)

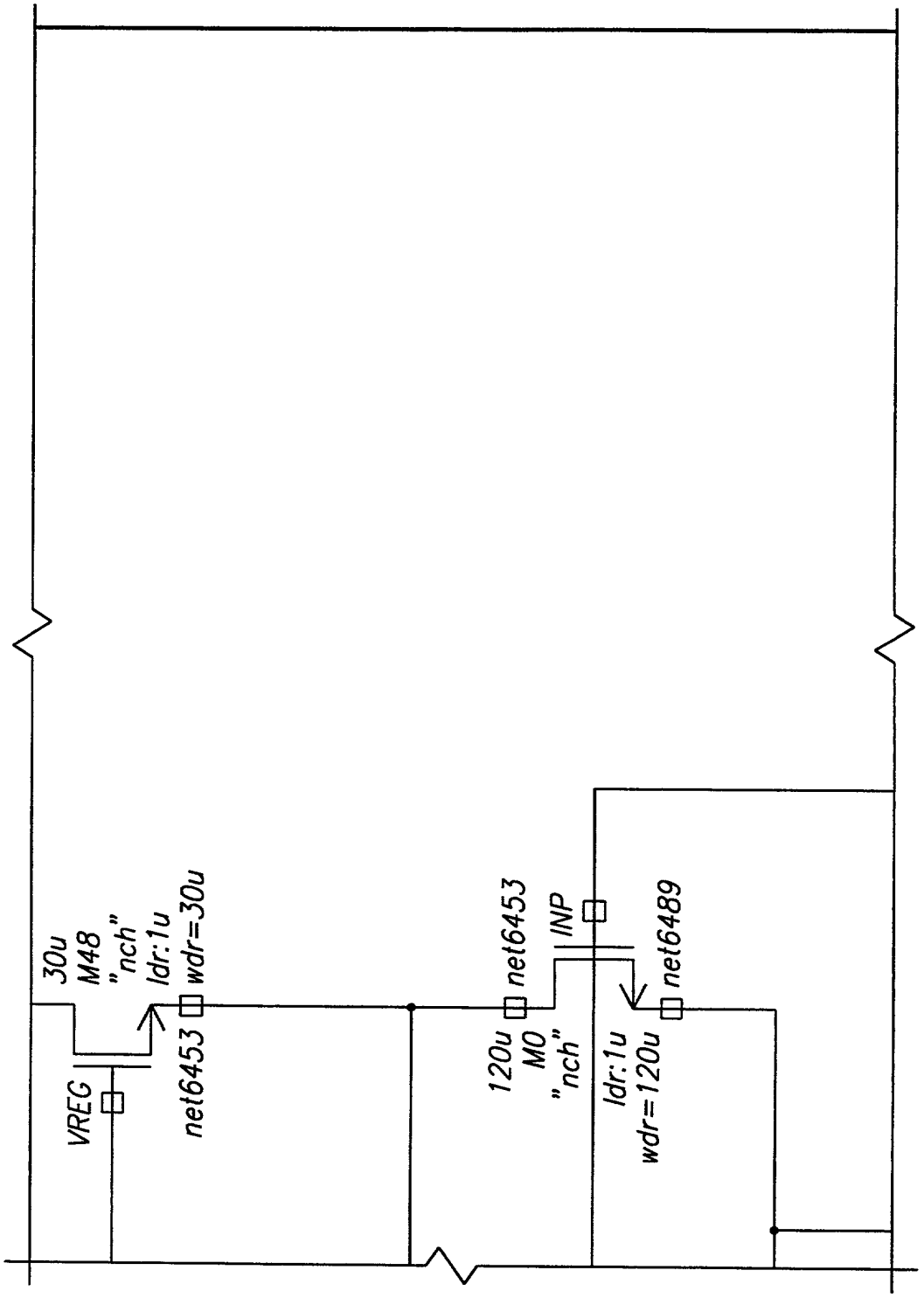


Фиг 8.00108

Patent-2012-06-14


MATCHED
MATCHED QUAD
VREG
net6471
30u
M47
"nch"
ldr:1u
wdr=30u
net6471
INN
120u
M3
"nch"
ldr:1u
wdr=120u
net6489
net6471
INN
120u
M8
"nch"
ldr:1u
wdr=120u
net6489
net6453
INP
120u
M1
"nch"
ldr:1u
wdr=120u
net6489

EP1715501A2



Фиг. 8.001E3188F

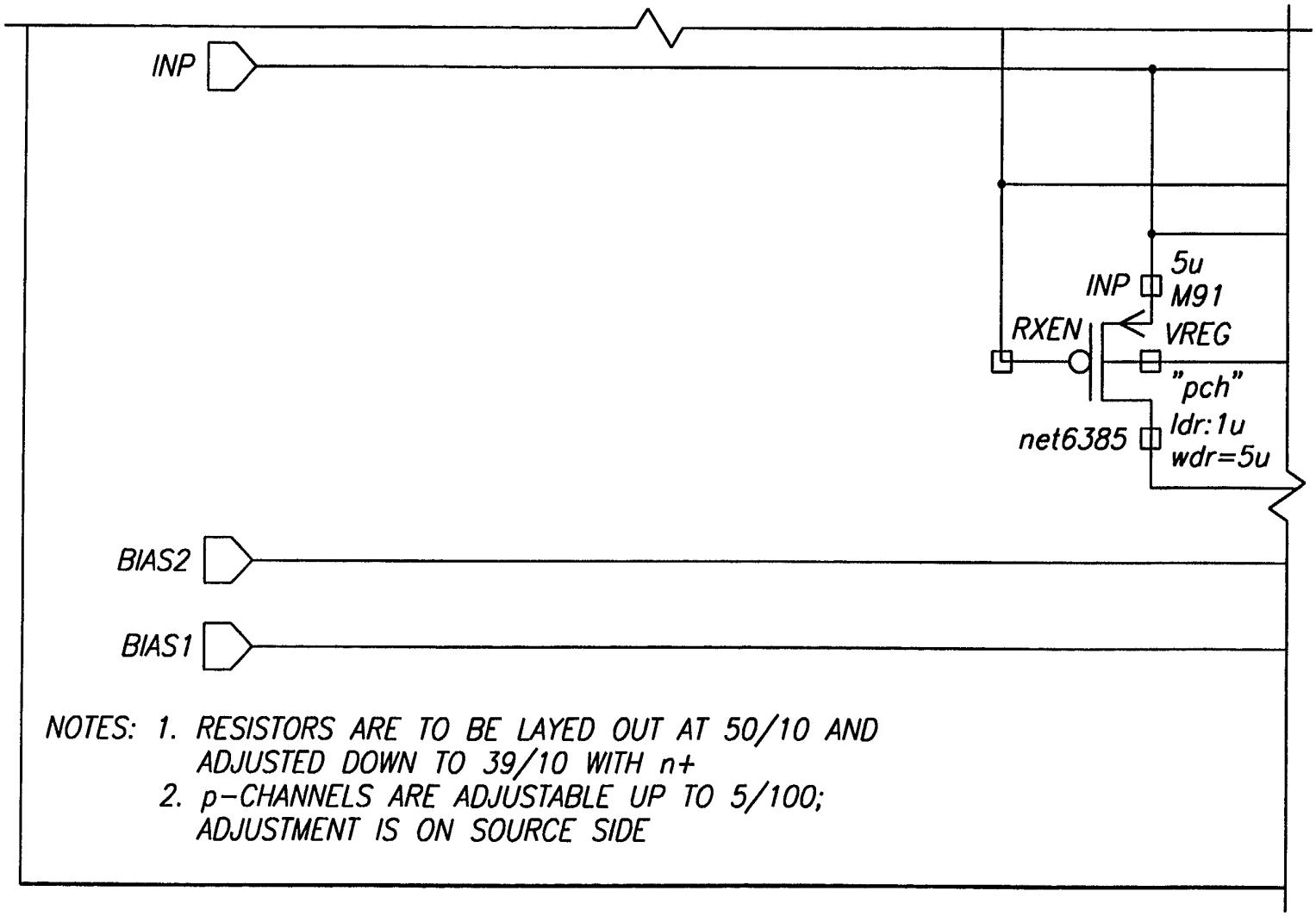
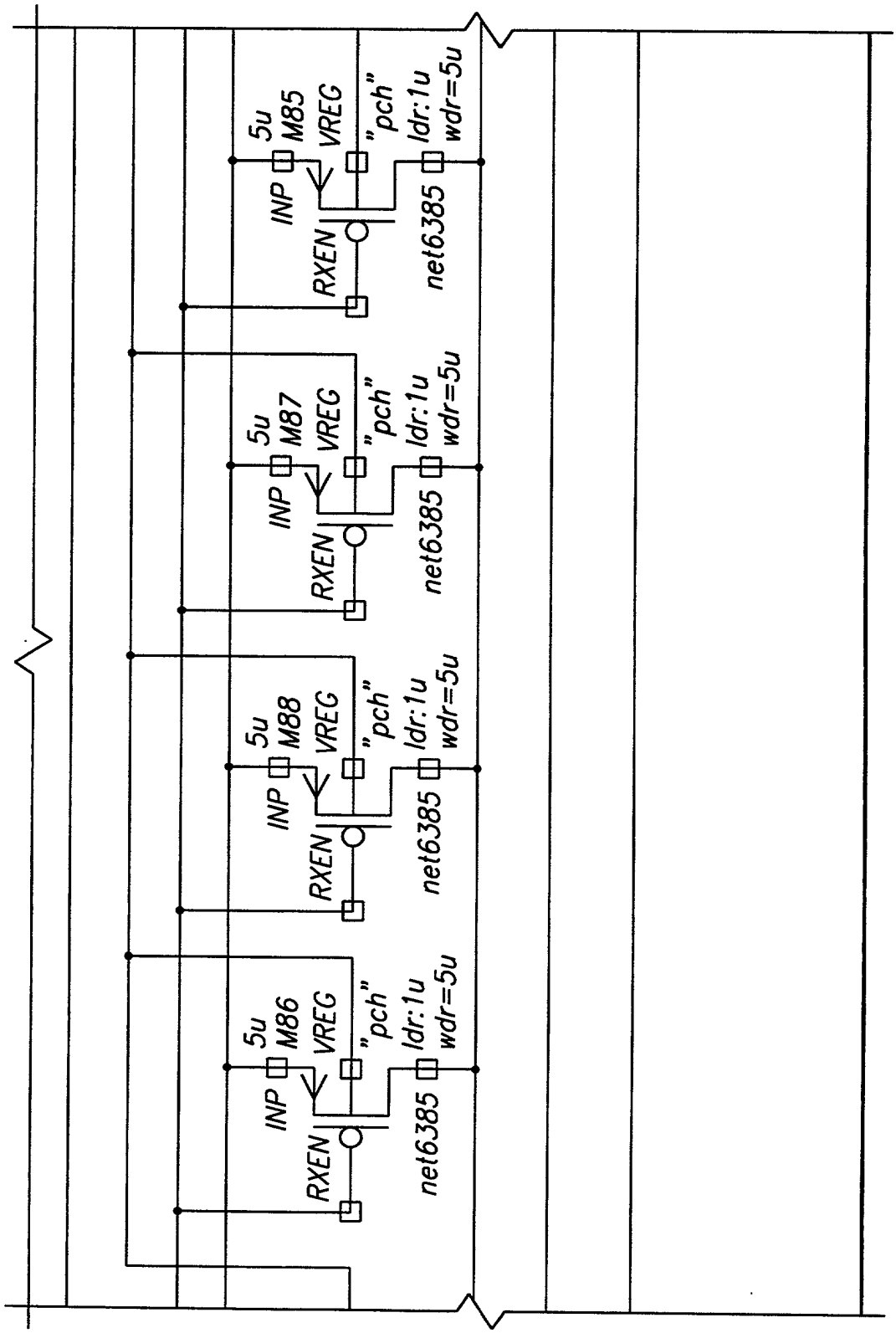
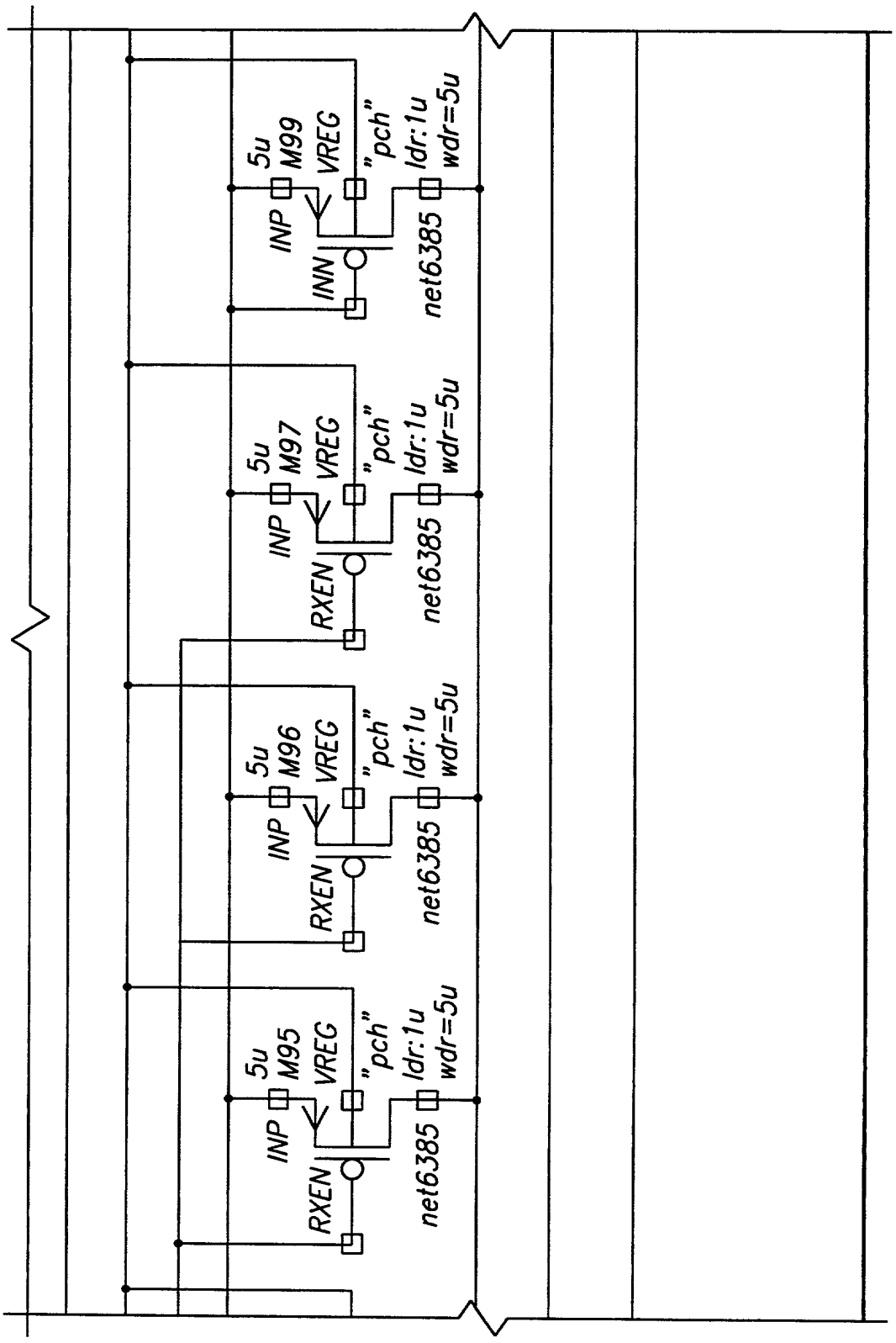

INP
5u
INP
M91
RXEN
VREG
"pch"
ldr:1u
net6385
wdr=5u
BIAS2
BIAS1
NOTES: 1. RESISTORS ARE TO BE LAYED OUT AT 50/10 AND
ADJUSTED DOWN TO 39/10 WITH n+
2. p-CHANNELS ARE ADJUSTABLE UP TO 5/100;
ADJUSTMENT IS ON SOURCE SIDE

Fig 8.01303A

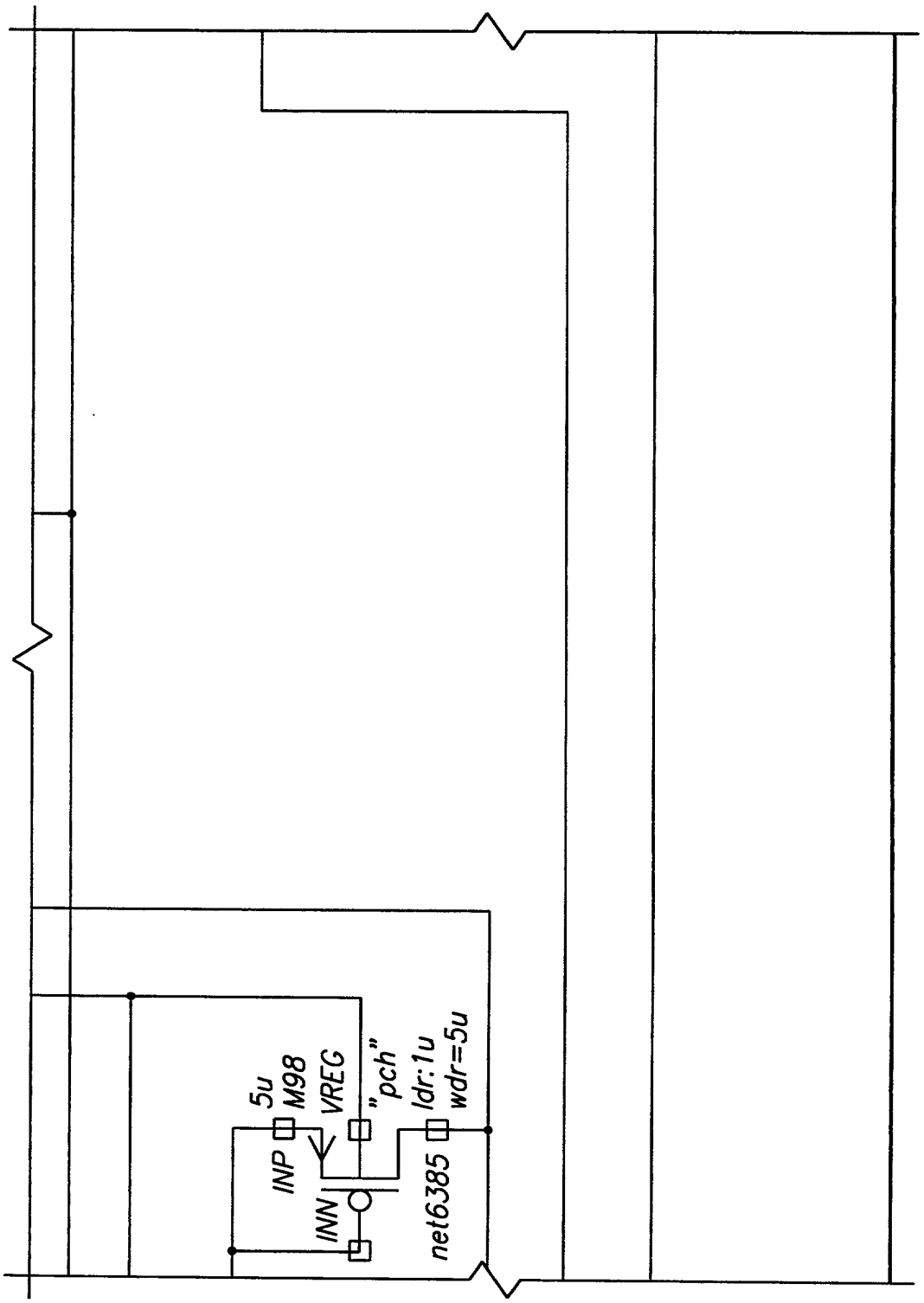

5u
M85
VREG
"pch"
ldr:1u
wdr=5u
INP
RXEN
net6385
5u
M87
VREG
"pch"
ldr:1u
wdr=5u
INP
RXEN
net6385
5u
M88
VREG
"pch"
ldr:1u
wdr=5u
INP
RXEN
net6385
5u
M86
VREG
"pch"
ldr:1u
wdr=5u
INP
RXEN
net6385

Фиг. 1100



ФИГ. 88

US 2014/0252462 A1



ФИГ. 8

Patent Application Publication

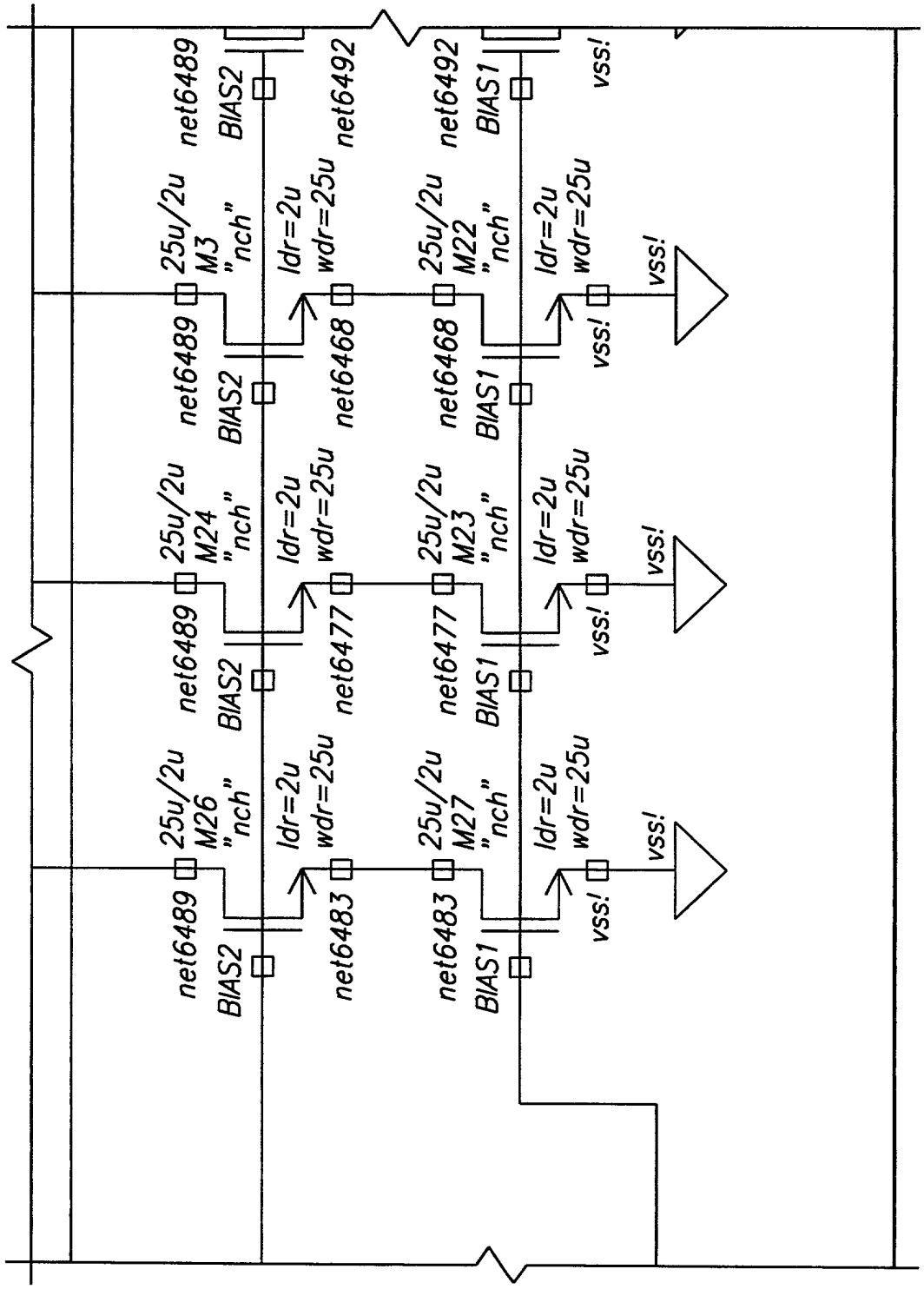
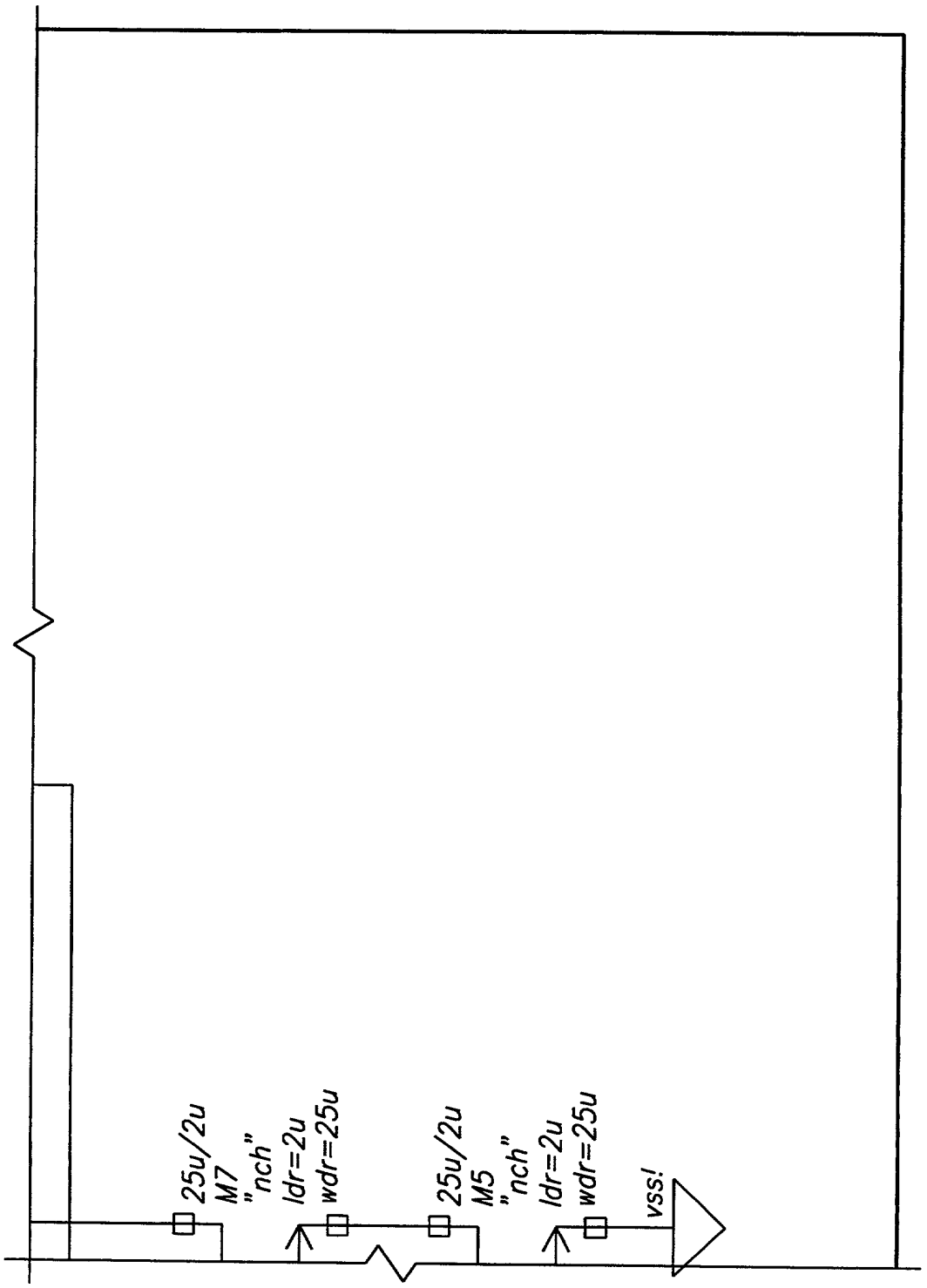

net6489
BIAS2
25u/2u
M3
"nch"
ldr=2u
wdr=25u
net6492
BIAS1
vss!
net6468
M24
M22
net6477
M23
net6483
M26
M27

FIG 88.00 1E



ФИГ. 98.00 ПРЕДШЕСТВУЮЩЕЕ ИЗВЕСТНО

US005545904A

TOTTEN EP0228860

8.0104AA	8.0104AB	8.0104AC
8.0104BA	8.0104BB	8.0104BC

Fig 8.0104

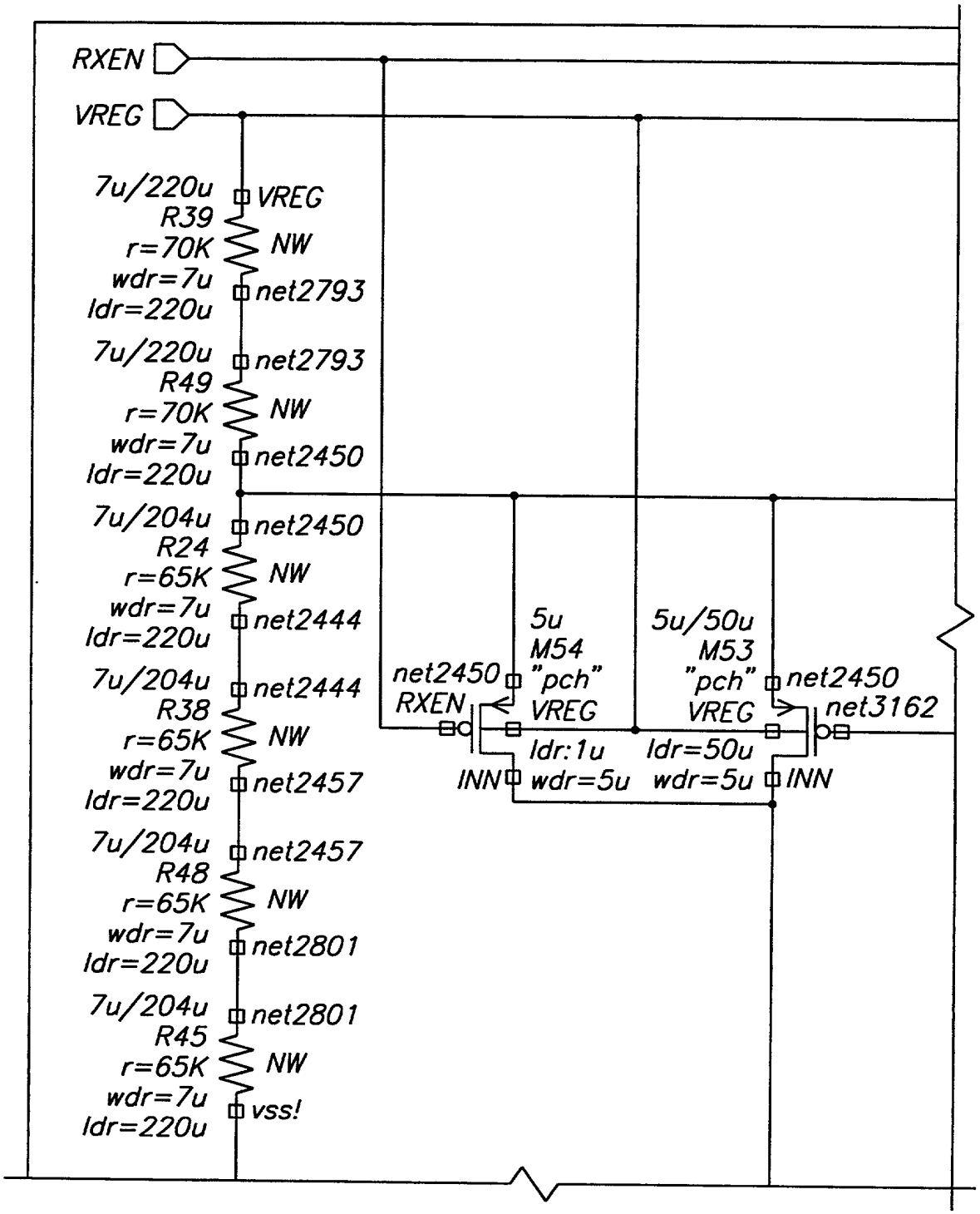

RXEN
VREG
7u/220u
R39
r=70K
wdr=7u
ldr=220u
VREG
NW
net2793
7u/220u
R49
r=70K
wdr=7u
ldr=220u
net2793
NW
net2450
7u/204u
R24
r=65K
wdr=7u
ldr=220u
net2450
NW
net2444
7u/204u
R38
r=65K
wdr=7u
ldr=220u
net2444
NW
net2457
7u/204u
R48
r=65K
wdr=7u
ldr=220u
net2457
NW
net2801
7u/204u
R45
r=65K
wdr=7u
ldr=220u
net2801
NW
vss!
5u
M54
"pch"
net2450
RXEN
VREG
ldr:1u
INN
wdr=5u
5u/50u
M53
"pch"
net2450
VREG
net3162
ldr=50u
wdr=5u
INN

Fig 8.0104AA

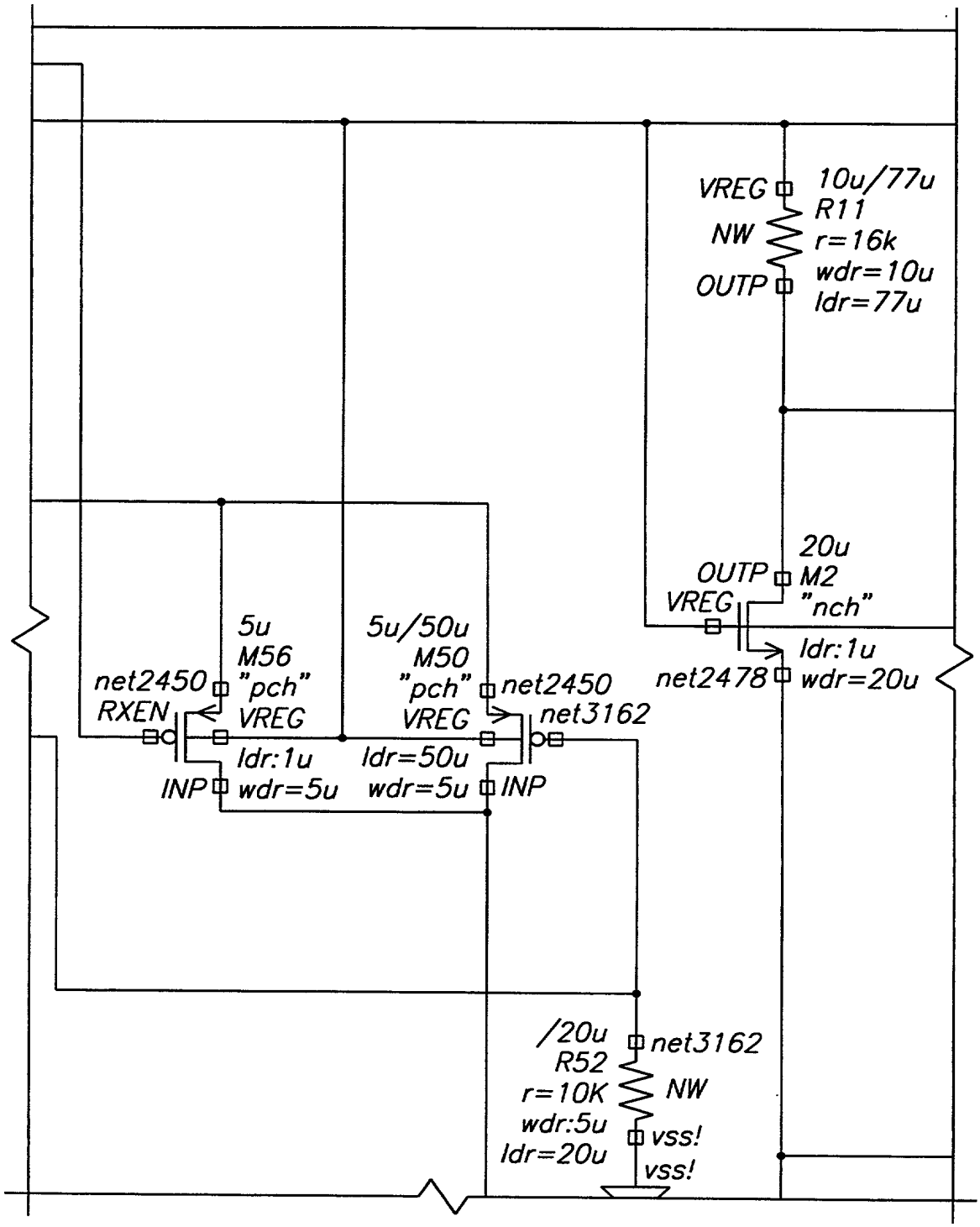


Fig 8.0110-A08

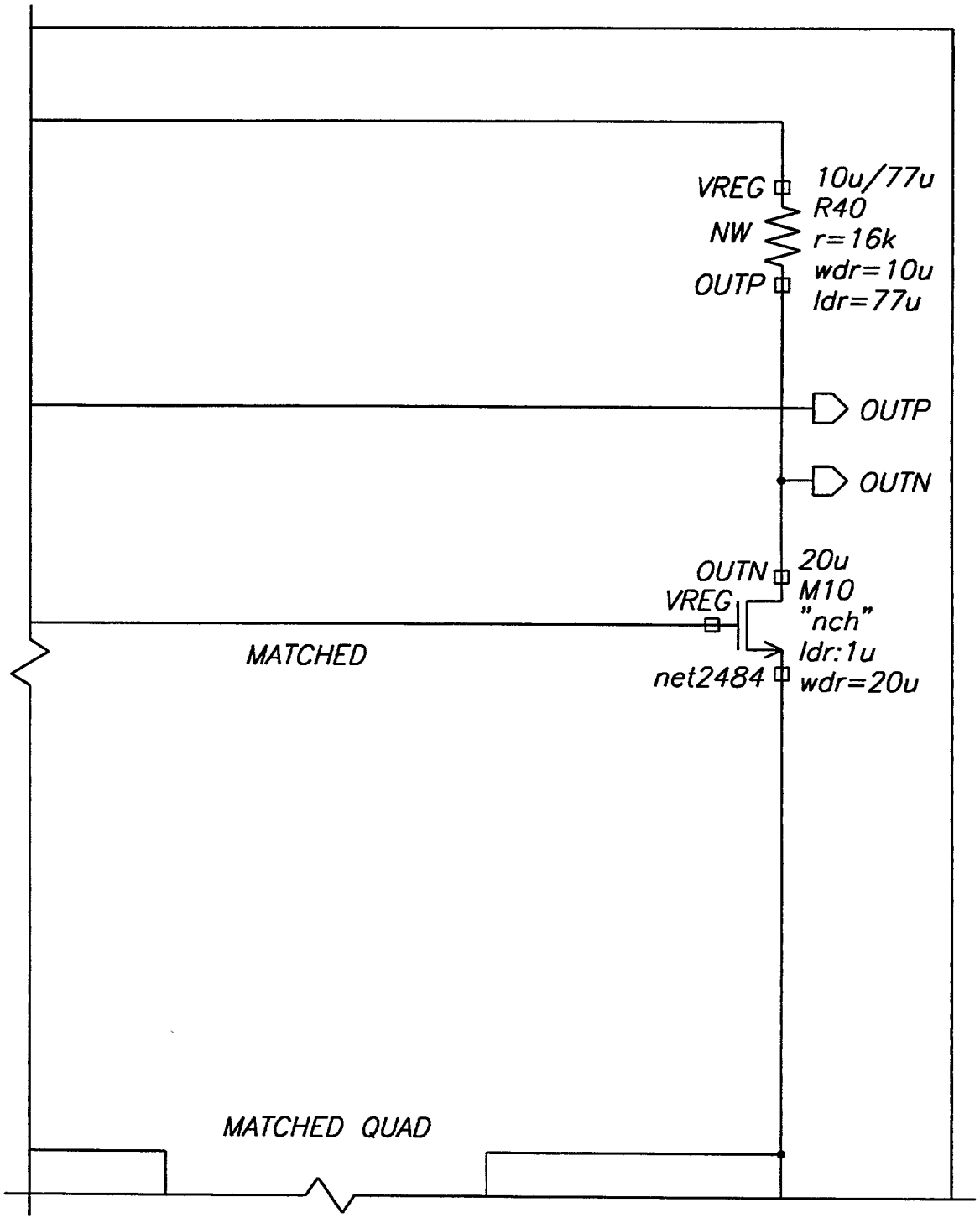
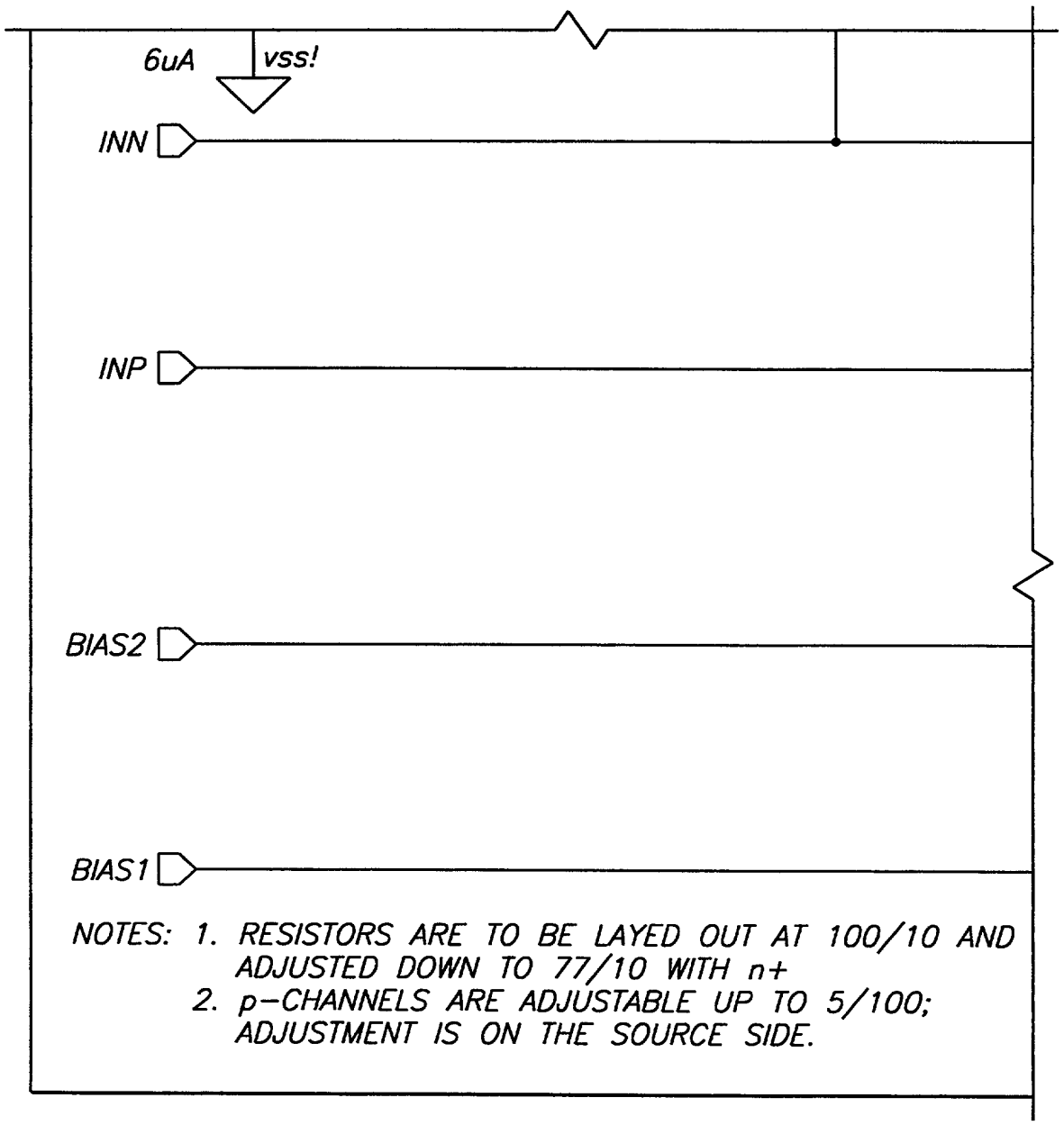

VREG
10u/77u
R40
NW
r=16k
wdr=10u
OUTP
ldr=77u
OUTP
OUTN
OUTN
20u
M10
VREG
"nch"
ldr:1u
MATCHED
net2484
wdr=20u
MATCHED QUAD

Fig 8.0104AC



NOTES: 1. RESISTORS ARE TO BE LAYED OUT AT 100/10 AND ADJUSTED DOWN TO 77/10 WITH n+
2. p-CHANNELS ARE ADJUSTABLE UP TO 5/100; ADJUSTMENT IS ON THE SOURCE SIDE.

05/22/03 - 05:41:04

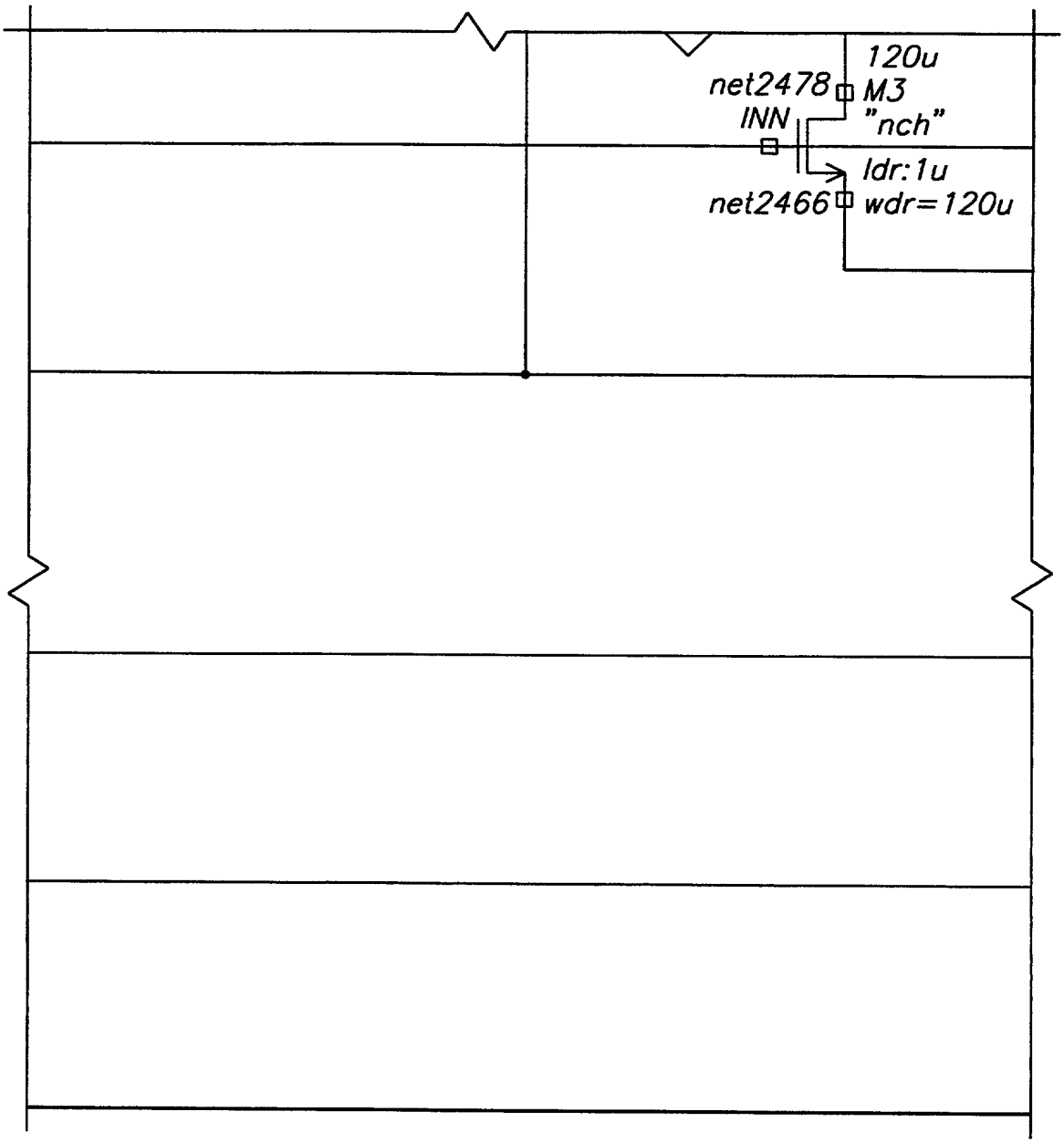


Fig 8.0104BB

Document Control - Uncontrolled

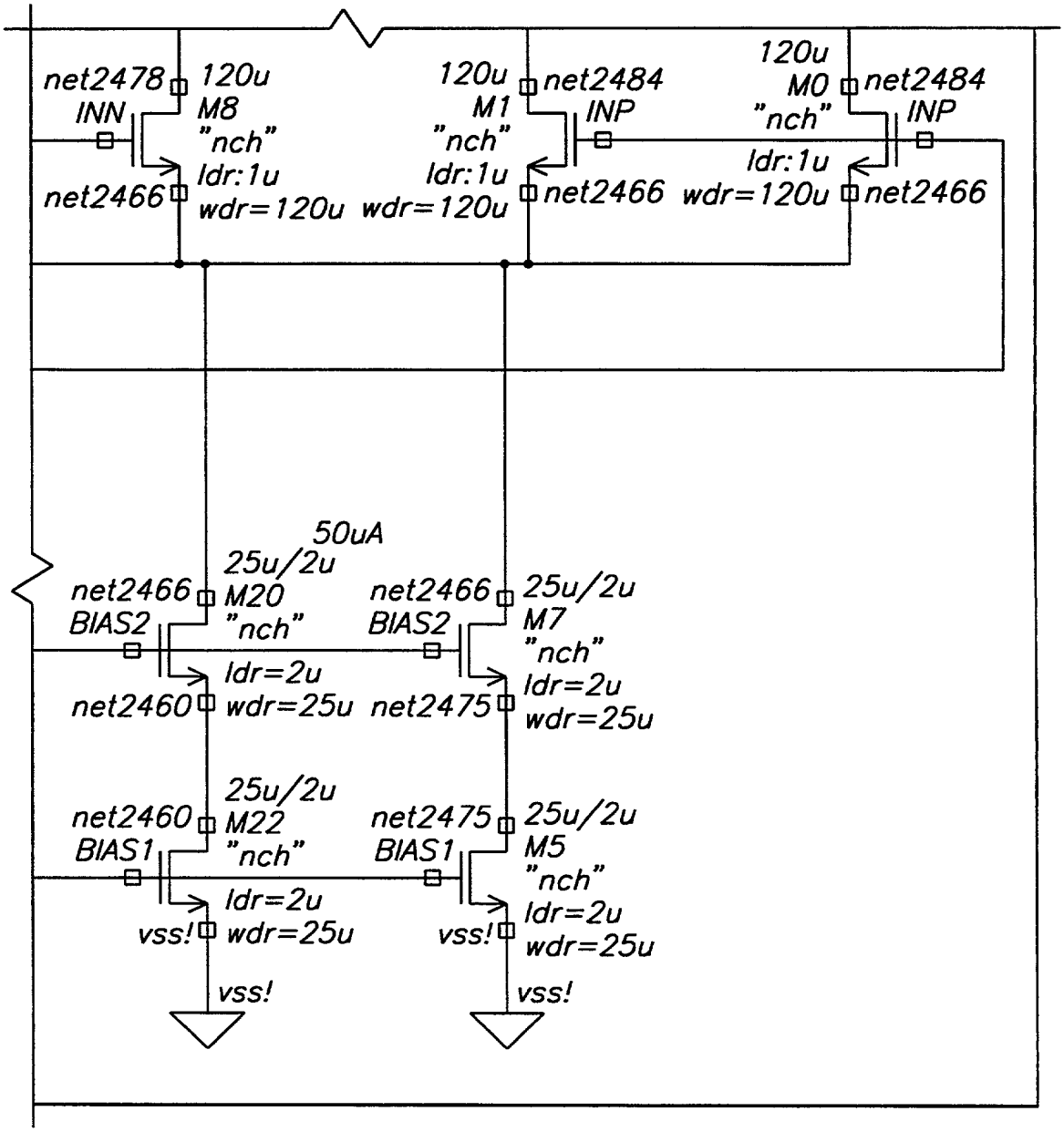


Fig 8.0110-4BC

EP 0 228 860

8.0105AA	8.0105AB	8.0105AC		
8.0105BA	8.0105BB	8.0105BC	8.0105BD	
8.0105CA	8.0105CB	8.0105CC	8.0105CD	8.0105CE
8.0105DA	8.0105DB	8.0105DC	8.0105DD	8.0105DE
8.0105EA	8.0105EB	8.0105EC	8.0105ED	

Fig 8.0105

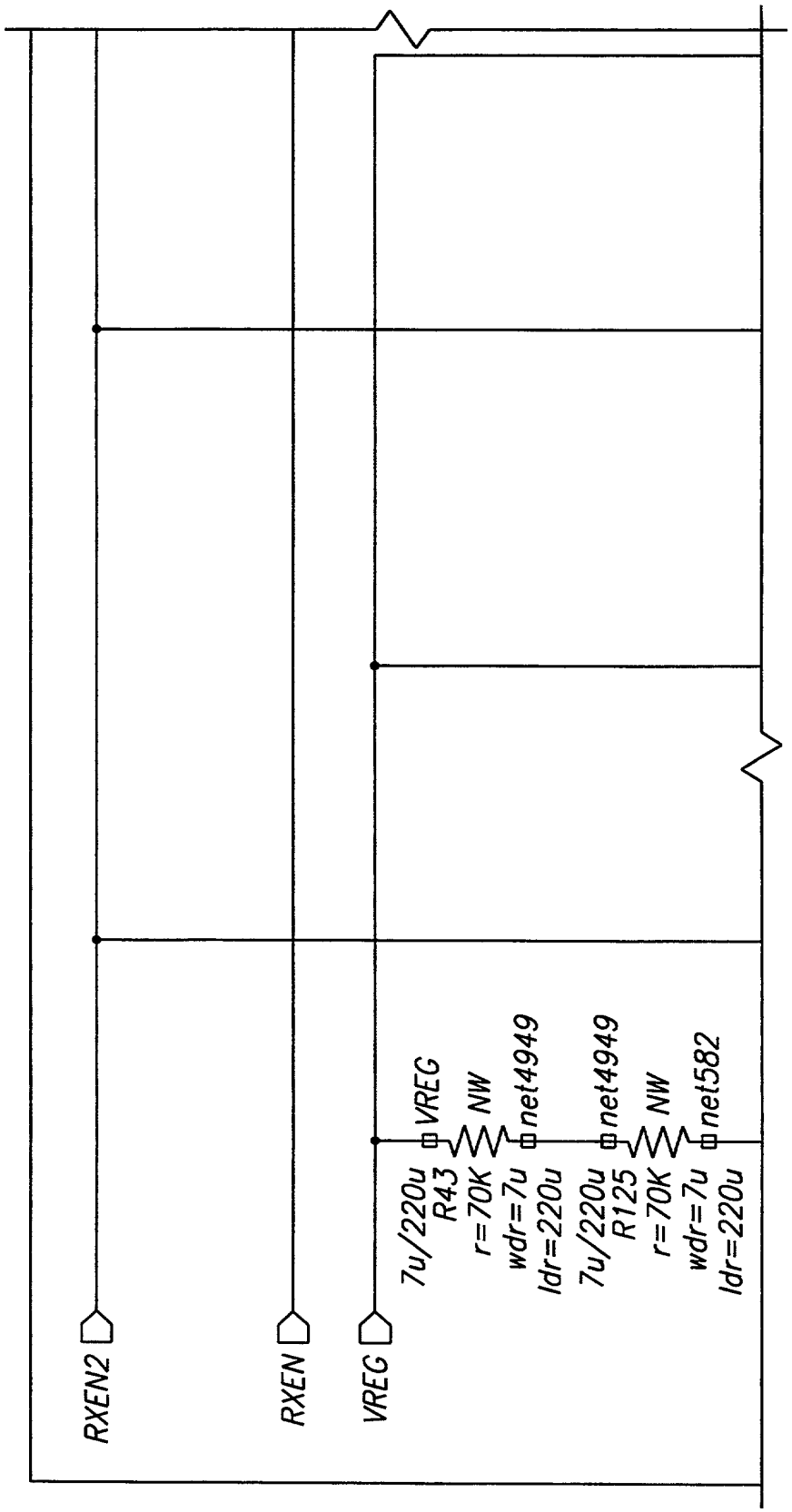


FIG 8.0105AA

09/22/2005 15:01:47

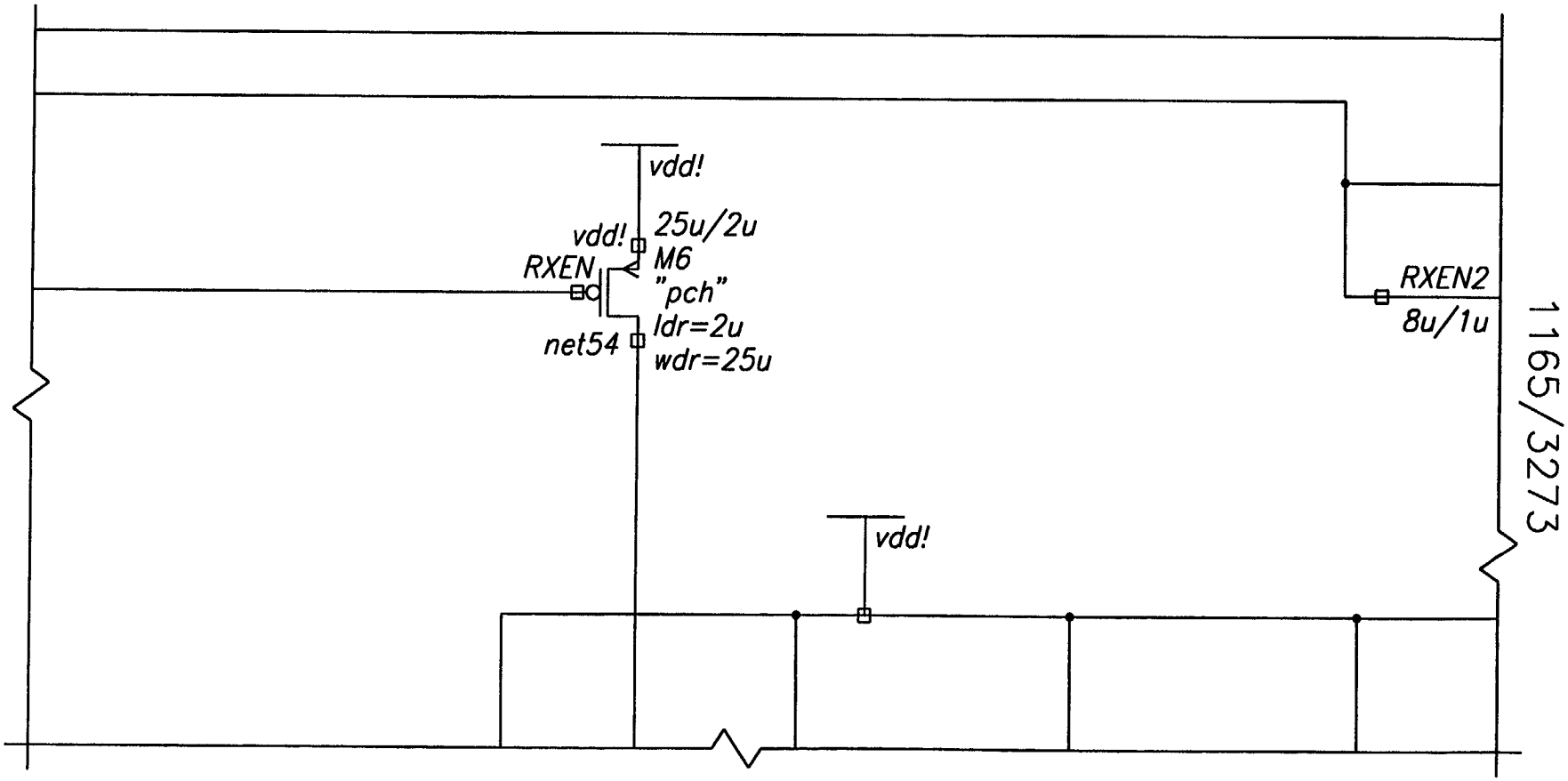

vdd!
vdd!
25u/2u
M6
"pch"
ldr=2u
wdr=25u
RXEN
net54
RXEN2
8u/1u
vdd!
1165/3273

Fig 8.0105AB

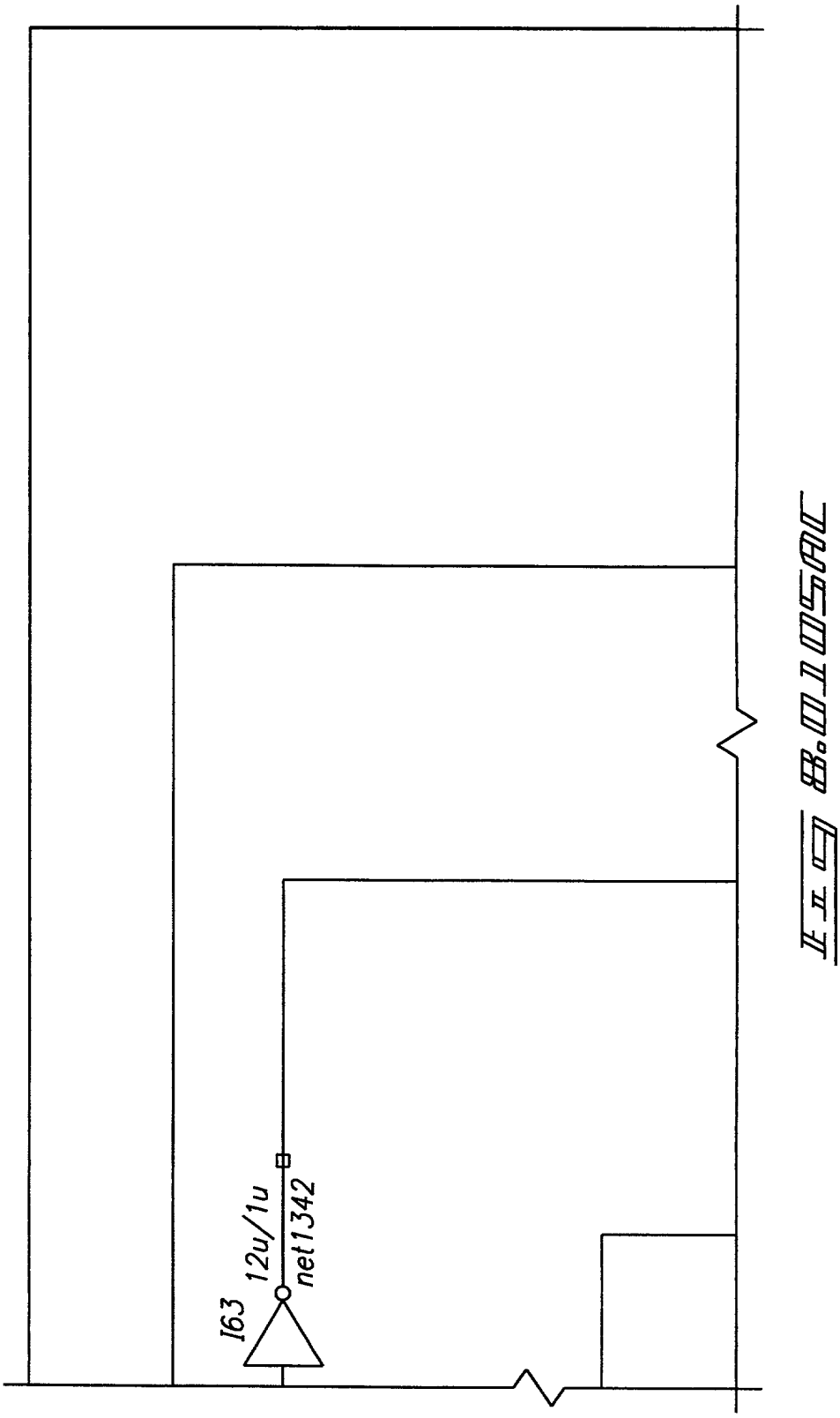


FIG 8.01USAC

Patent application

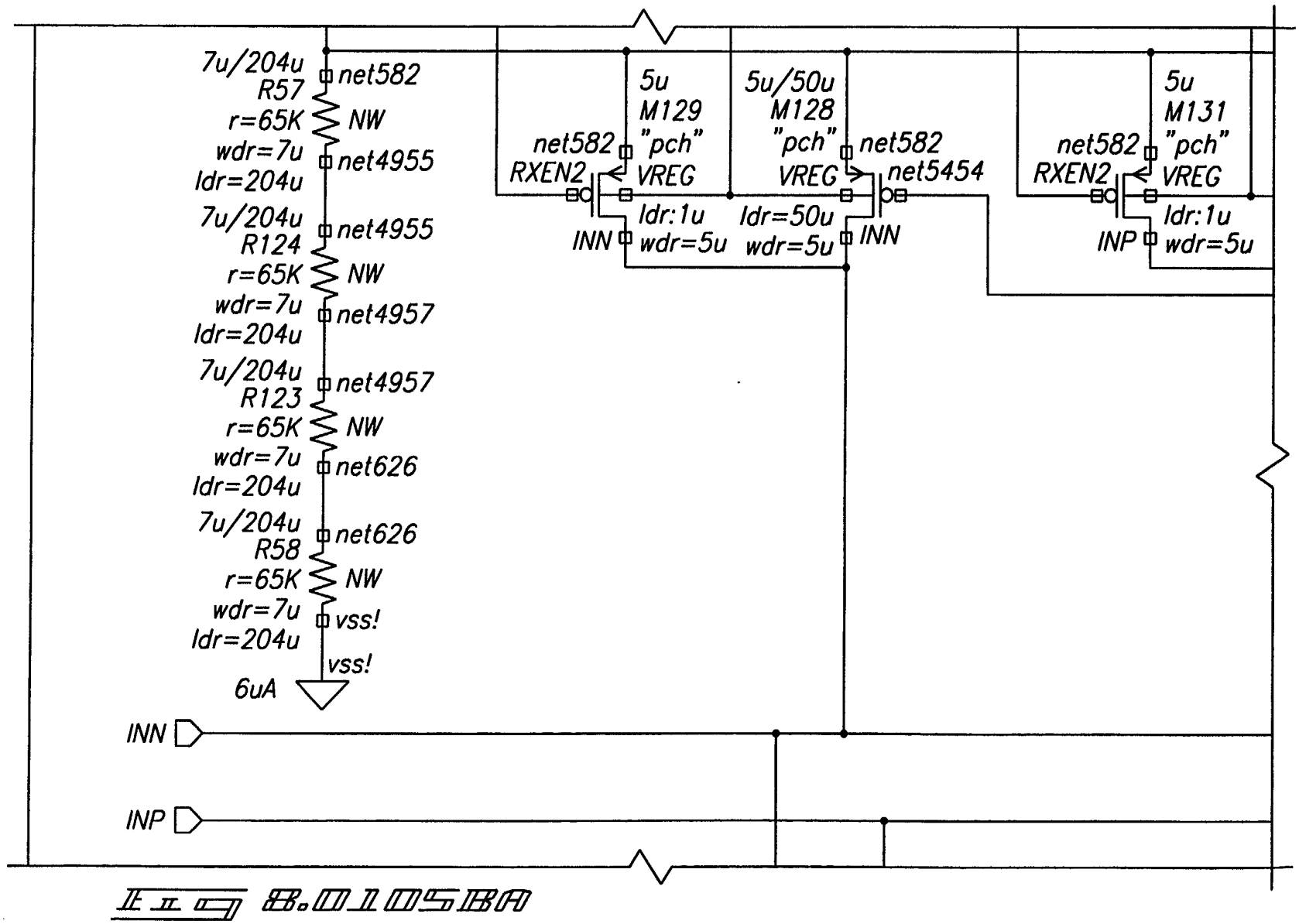

7u/204u
R57
r=65K
wdr=7u
ldr=204u
net582
NW
net4955
7u/204u
R124
r=65K
wdr=7u
ldr=204u
net4955
NW
net4957
7u/204u
R123
r=65K
wdr=7u
ldr=204u
net4957
NW
net626
7u/204u
R58
r=65K
wdr=7u
ldr=204u
net626
NW
vss!
vss!
6uA
INN
INP
5u
M129
"pch"
net582
RXEN2
VREG
ldr:1u
INN
wdr=5u
5u/50u
M128
"pch"
VREG
net582
net5454
ldr=50u
wdr=5u
INN
5u
M131
"pch"
net582
RXEN2
VREG
ldr:1u
INP
wdr=5u

Fig 8.0105BA

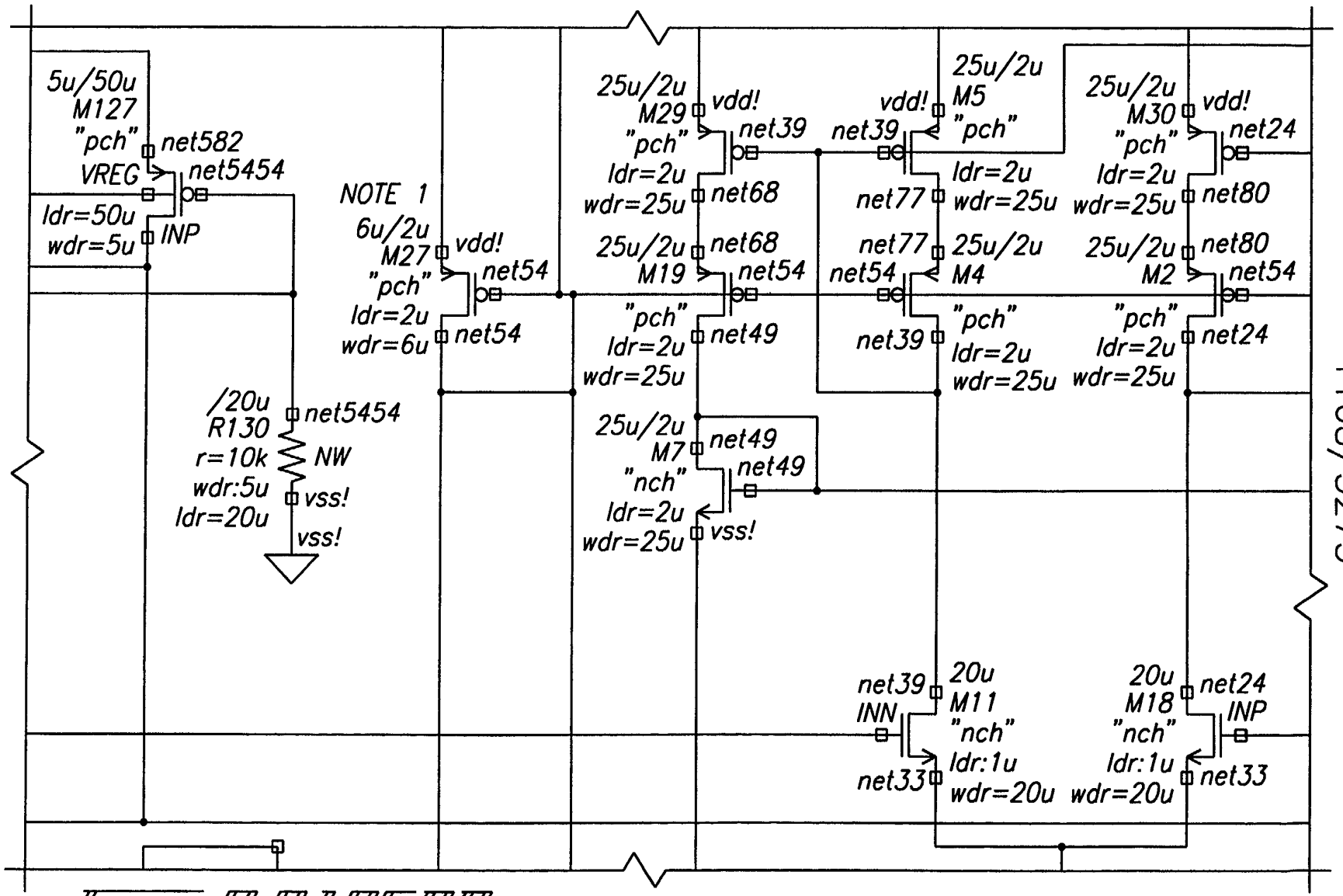

5u/50u
M127
"pch"
VREG
net582
net5454
ldr=50u
wdr=5u
INP
NOTE 1
6u/2u
M27
"pch"
ldr=2u
wdr=6u
vdd!
net54
net54
/20u
R130
r=10k
wdr:5u
ldr=20u
NW
net5454
vss!
vss!
25u/2u
M29
"pch"
ldr=2u
wdr=25u
vdd!
net39
net68
25u/2u
M19
"pch"
ldr=2u
wdr=25u
net68
net54
net49
25u/2u
M7
"nch"
ldr=2u
wdr=25u
net49
net49
vss!
vdd!
net39
25u/2u
M5
"pch"
ldr=2u
wdr=25u
net77
net77
25u/2u
M4
"pch"
ldr=2u
wdr=25u
net54
net39
25u/2u
M30
"pch"
ldr=2u
wdr=25u
vdd!
net24
net80
25u/2u
M2
"pch"
ldr=2u
wdr=25u
net80
net54
net24
net39
INN
20u
M11
"nch"
ldr:1u
wdr=20u
net33
20u
M18
"nch"
ldr:1u
wdr=20u
net24
INP
net33
1168/3273

Fig 8.01058B

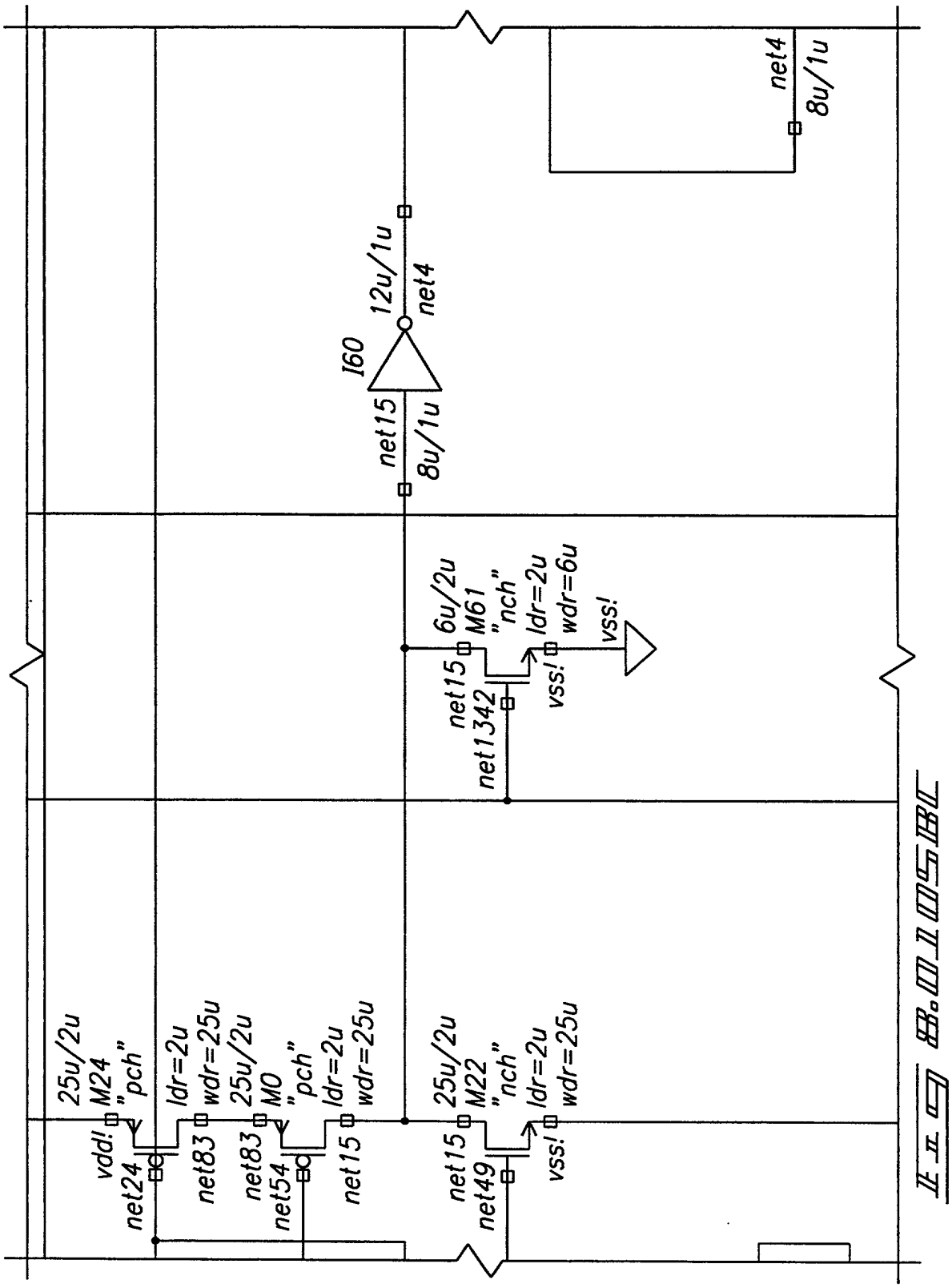


Fig 88.00.1.0.0.3.B.C

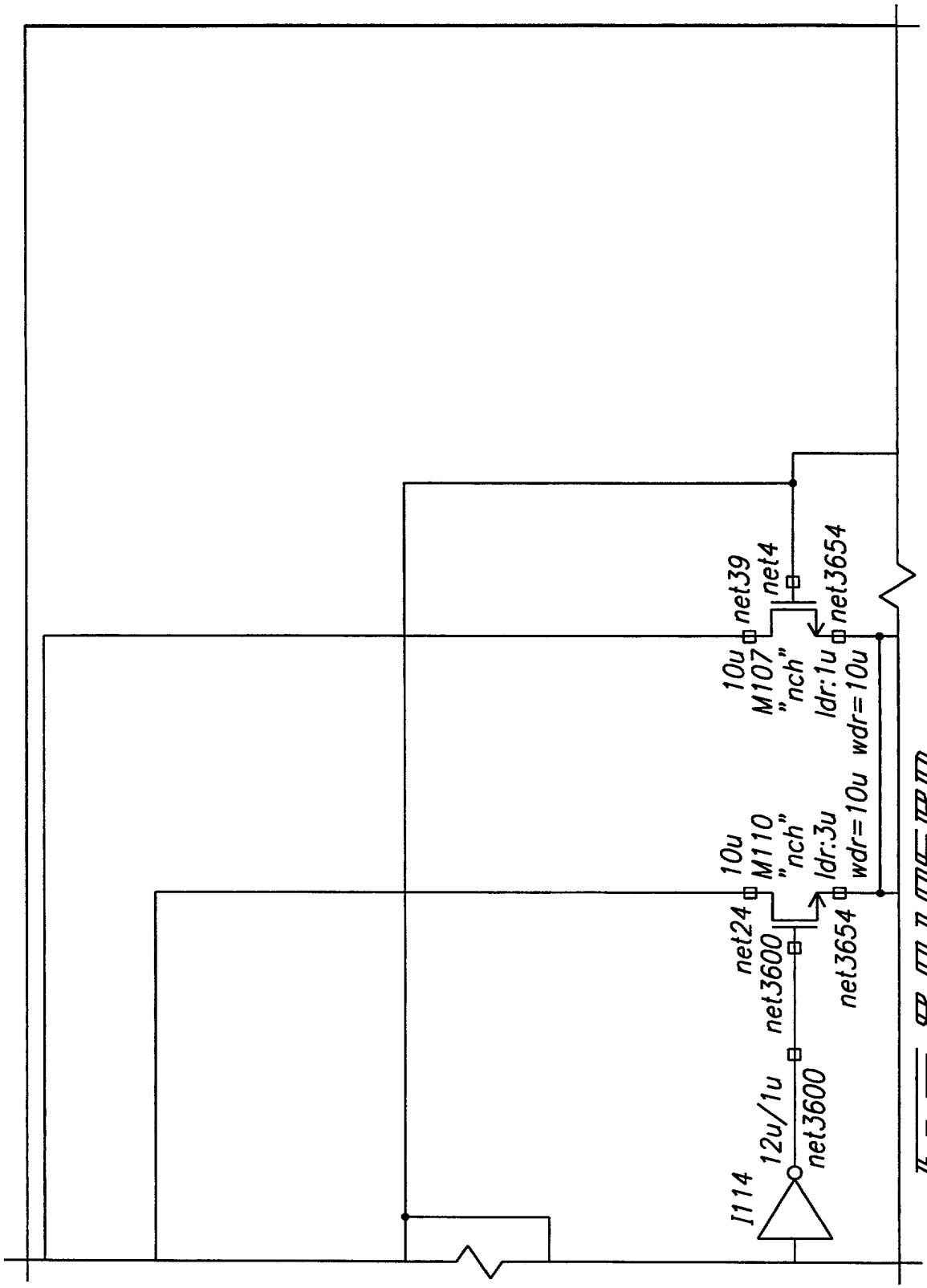


Fig 8.00 1 0 5 1 8 0 0

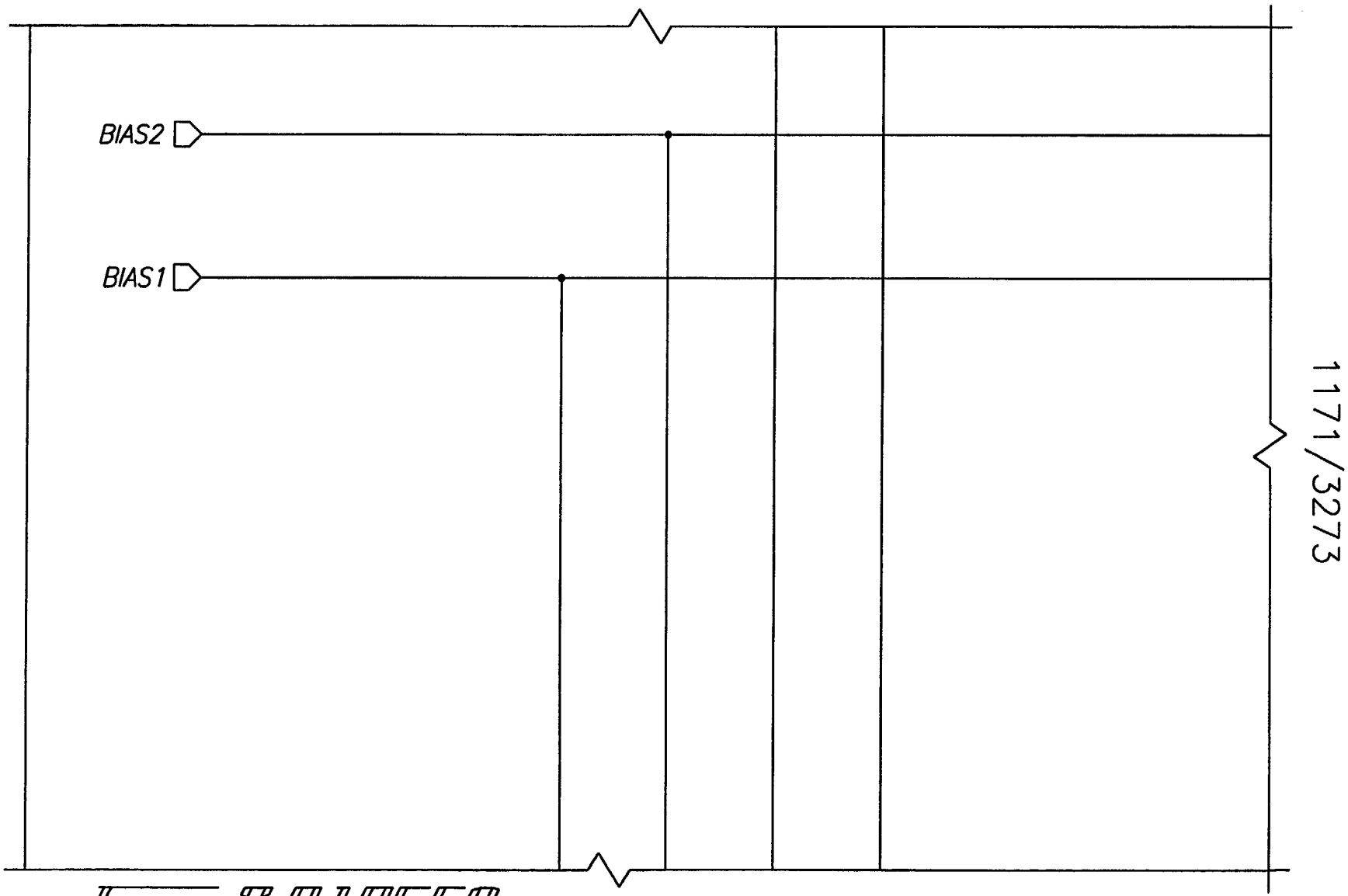


Fig 8.0105CA

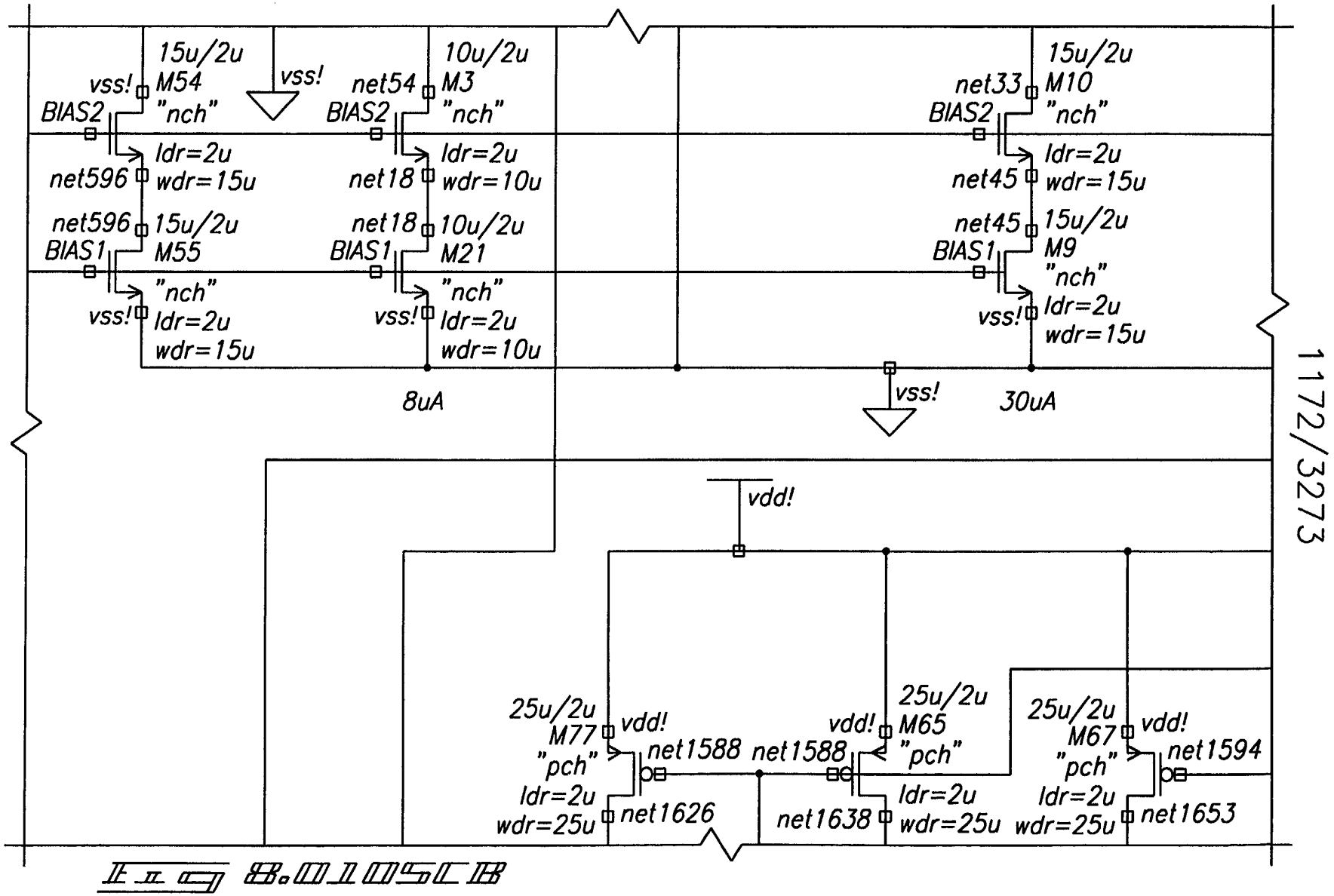
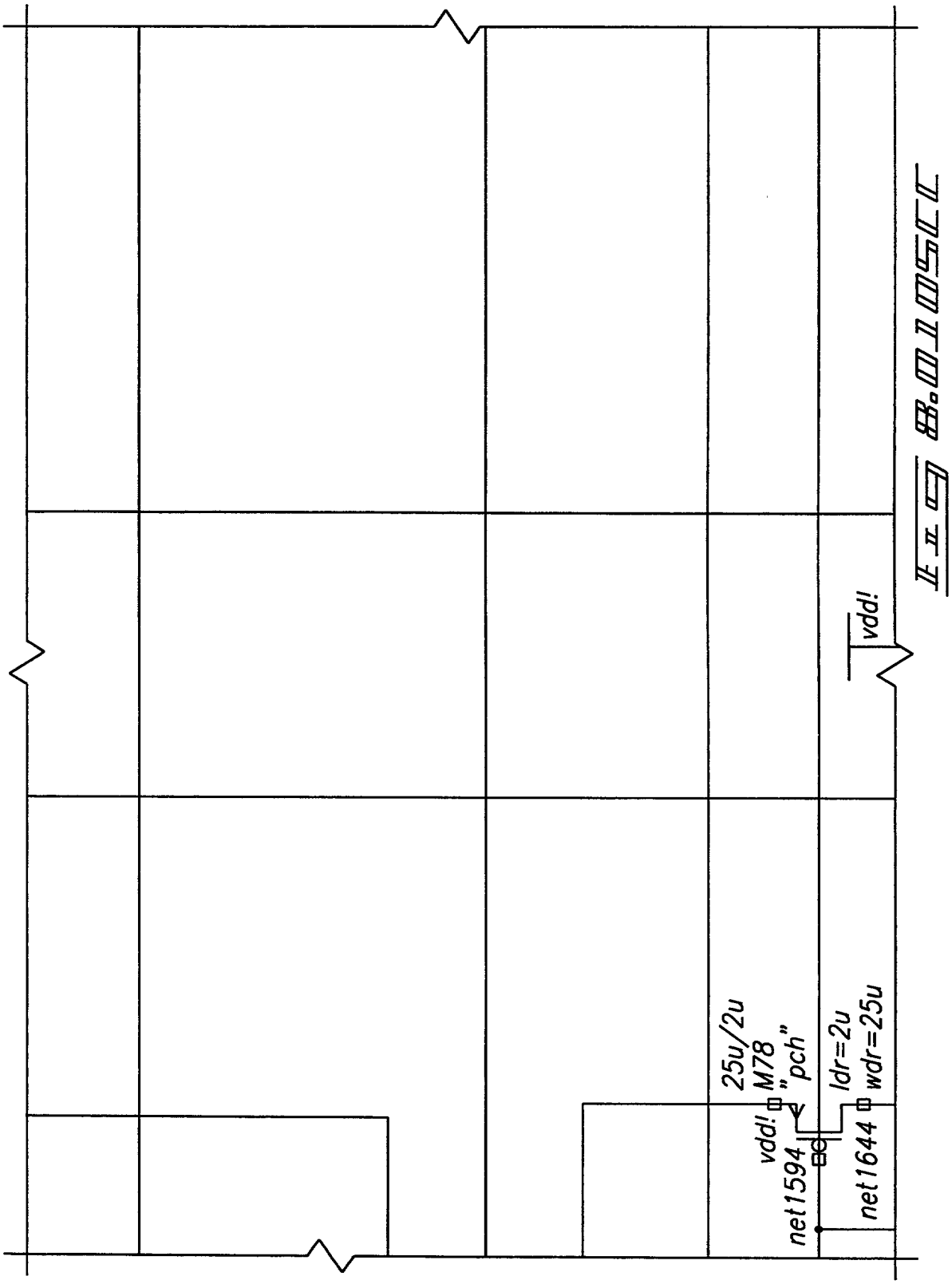
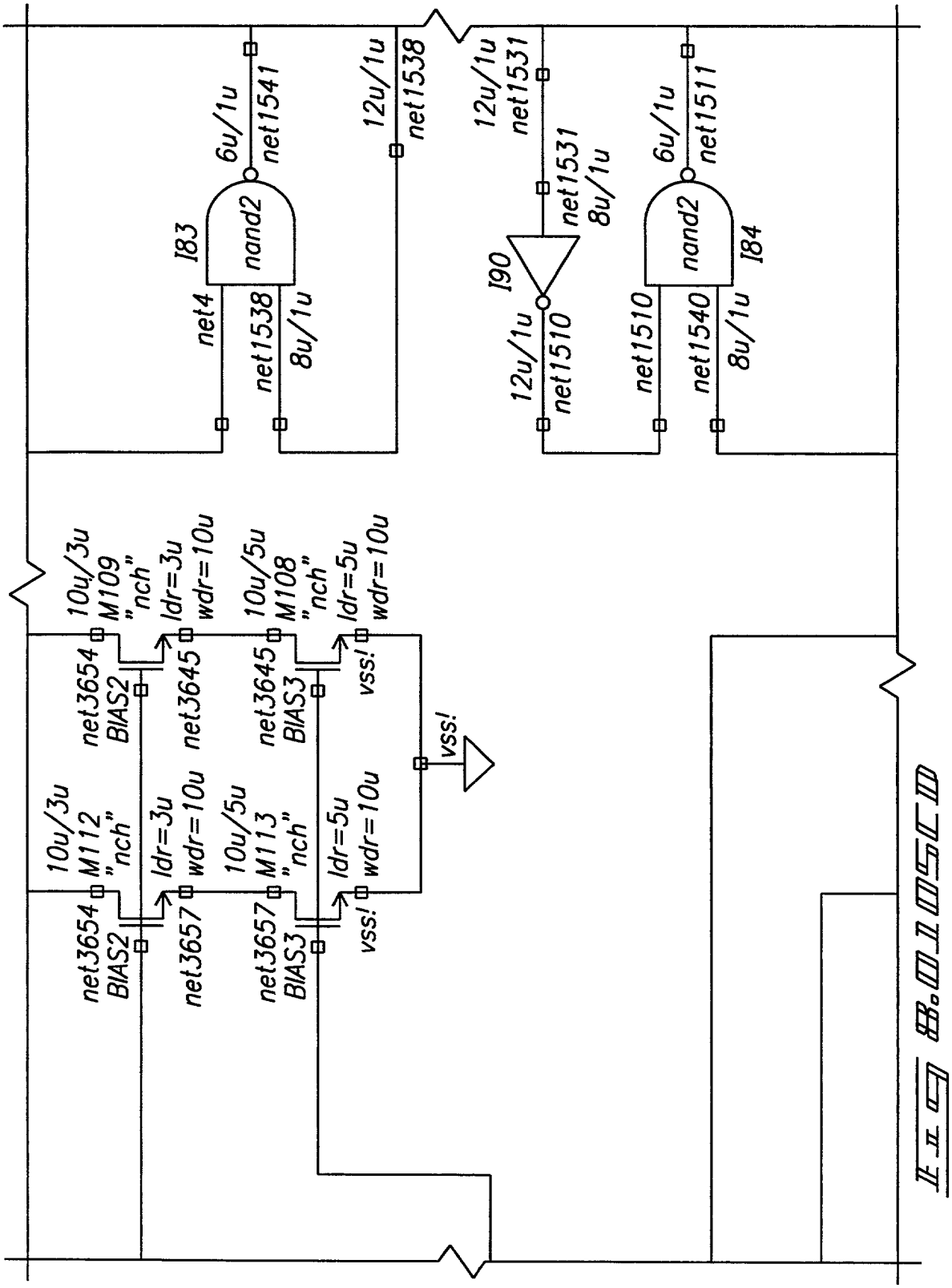
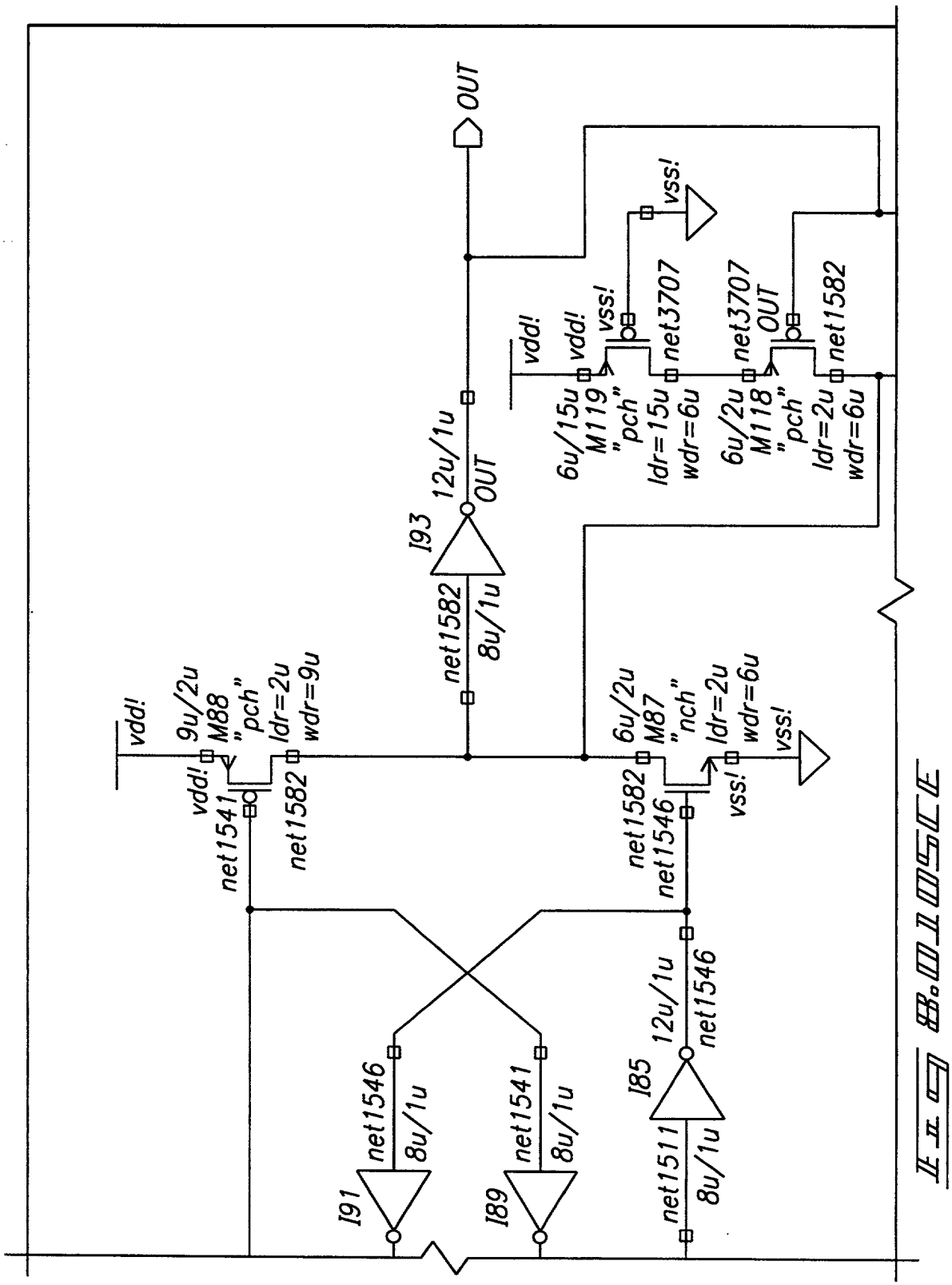


Fig 8.01105CB



US005952695A


net3654
BIAS2
10u/3u
M112
"nch"
ldr=3u
wdr=10u
net3657
net3654
10u/3u
M109
"nch"
ldr=3u
wdr=10u
net3645
net3657
BIAS3
10u/5u
M113
"nch"
ldr=5u
wdr=10u
vss!
net3645
10u/5u
M108
"nch"
ldr=5u
wdr=10u
vss!
vss!
I83
nand2
6u/1u
net1541
net4
net1538
8u/1u
12u/1u
net1538
12u/1u
net1531
I90
net1531
8u/1u
12u/1u
net1510
net1510
I84
nand2
6u/1u
net1511
net1540
8u/1u


OUT
vss!
vdd!
vdd!
vss!
net3707
net3707
OUT
net1582
6u/15u
M119
"pch"
ldr=15u
wdr=6u
6u/2u
M118
"pch"
ldr=2u
wdr=6u
I93
12u/1u
OUT
net1582
8u/1u
vdd!
9u/2u
M88
"pch"
ldr=2u
wdr=9u
vdd!
net1541
net1582
6u/2u
M87
"nch"
ldr=2u
wdr=6u
vss!
net1582
net1546
vss!
I85
12u/1u
net1546
net1511
8u/1u
I91
net1546
8u/1u
I89
net1541
8u/1u

1176/3273

Plat Check - 05/22/2015

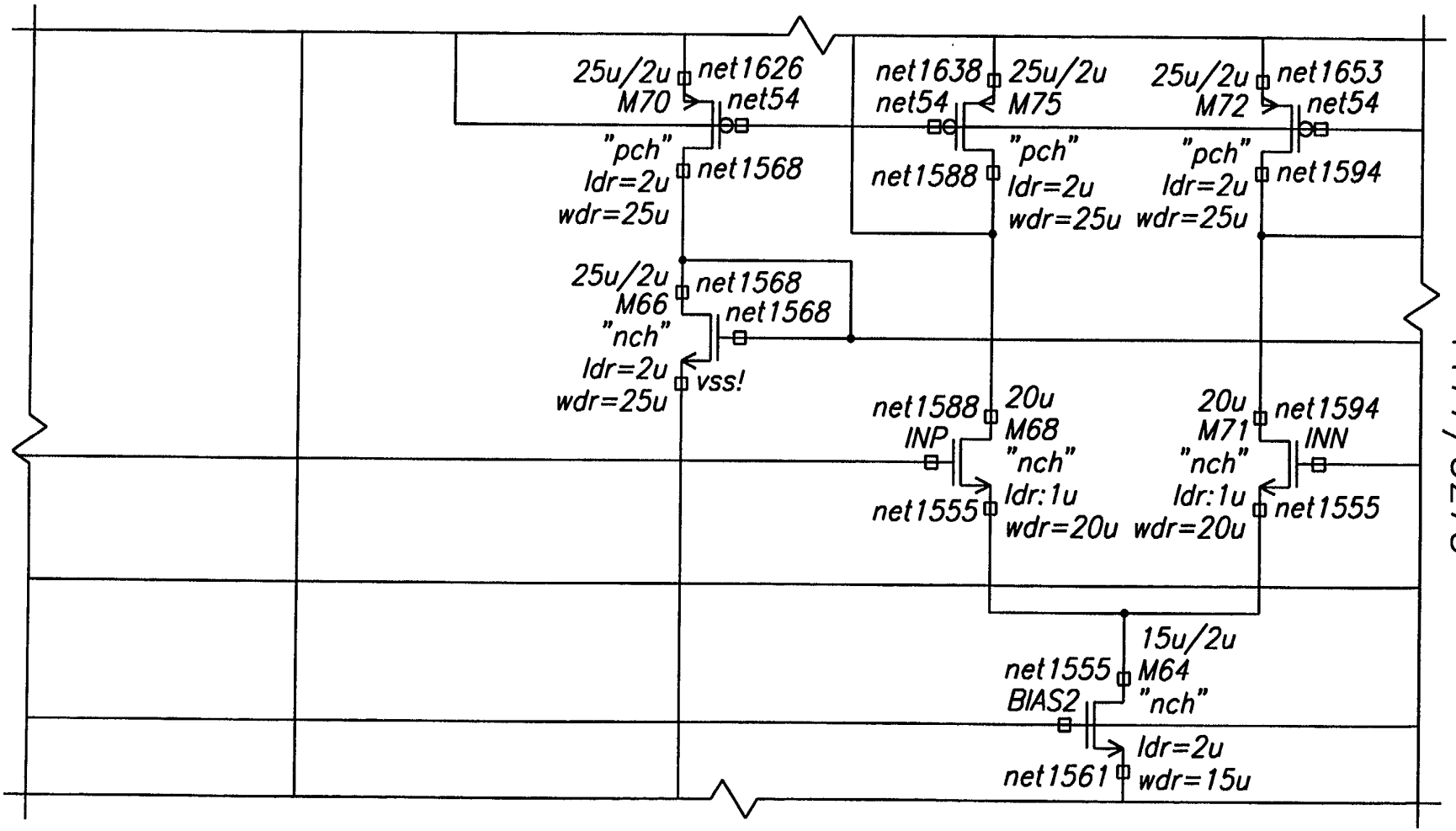

25u/2u
M70
net1626
net54
"pch"
ldr=2u
wdr=25u
net1568
net1638
net54
25u/2u
M75
"pch"
ldr=2u
wdr=25u
net1588
25u/2u
M72
net1653
net54
"pch"
ldr=2u
wdr=25u
net1594
25u/2u
M66
"nch"
ldr=2u
wdr=25u
net1568
net1568
vss!
net1588
INP
20u
M68
"nch"
ldr:1u
wdr=20u
net1555
20u
M71
"nch"
ldr:1u
wdr=20u
net1594
INN
net1555
15u/2u
net1555
M64
"nch"
BIAS2
ldr=2u
wdr=15u
net1561
1177/3273

Fig 8.0105DB

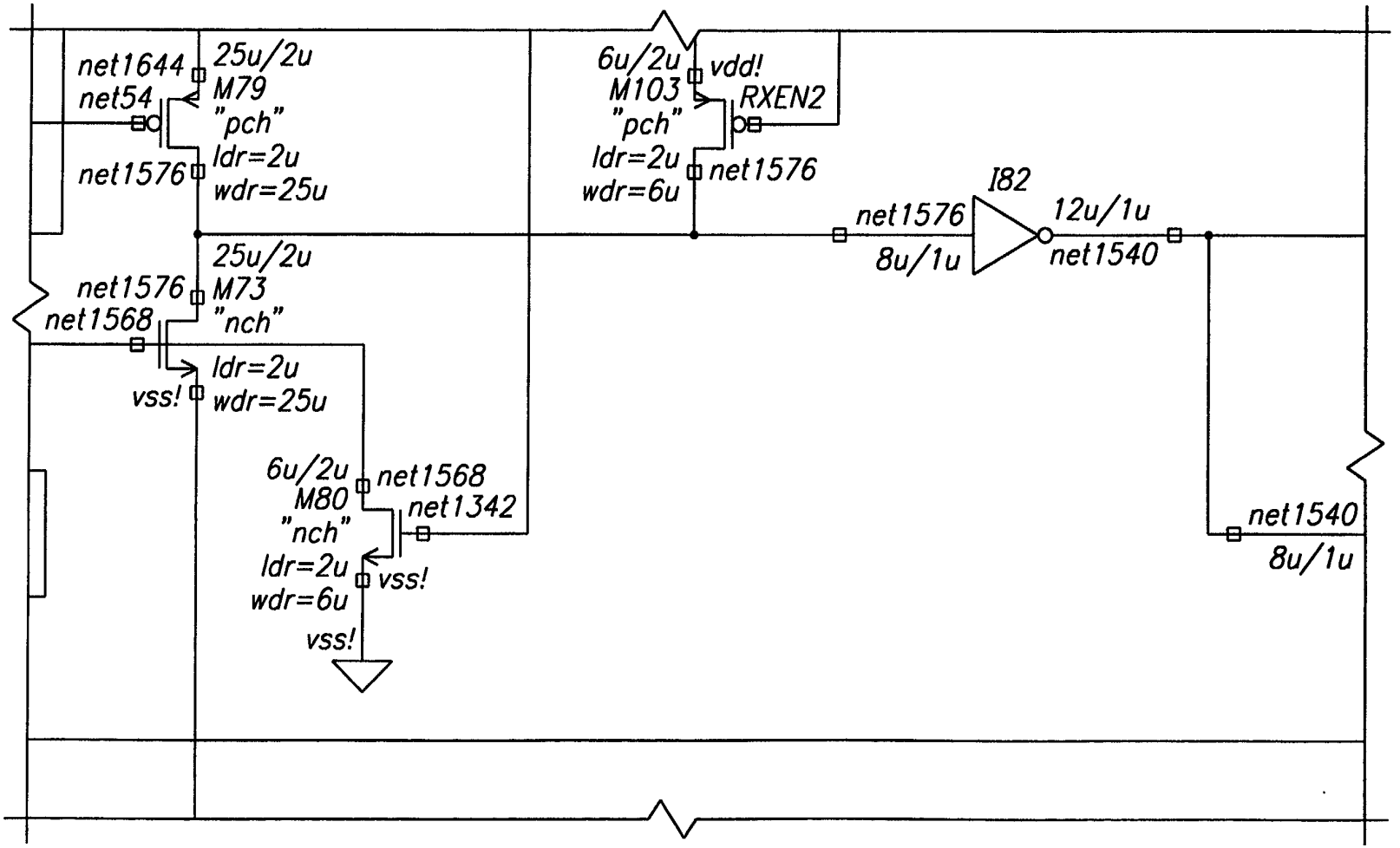
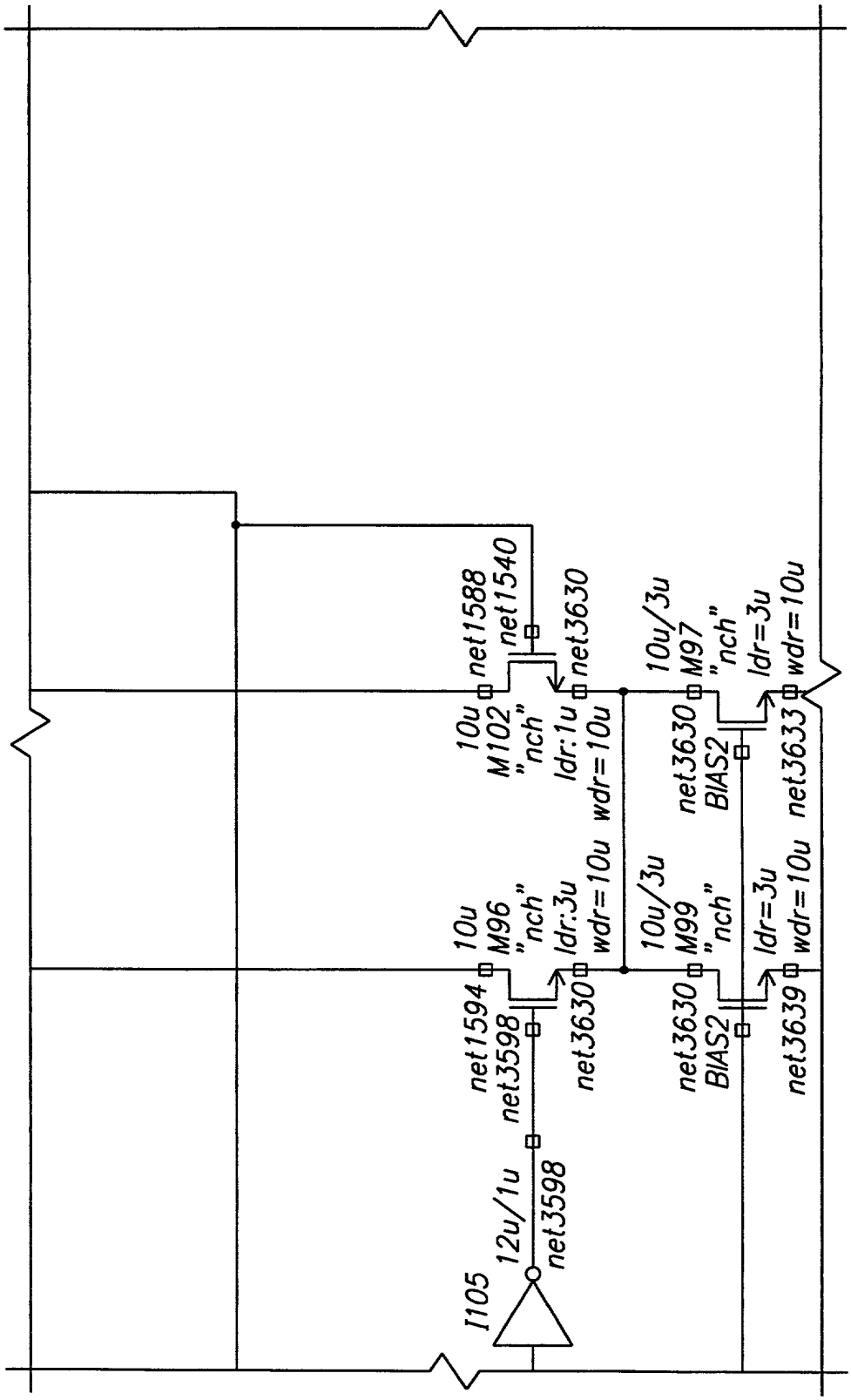

net1644
net54
net1576
25u/2u
M79
"pch"
ldr=2u
wdr=25u
6u/2u
M103
"pch"
ldr=2u
wdr=6u
vdd!
RXEN2
net1576
I82
net1576
8u/1u
12u/1u
net1540
net1576
net1568
25u/2u
M73
"nch"
ldr=2u
wdr=25u
vss!
6u/2u
M80
"nch"
ldr=2u
wdr=6u
net1568
net1342
vss!
vss!
net1540
8u/1u

Fig 8.01050C



Фиг. 88.III.105.III

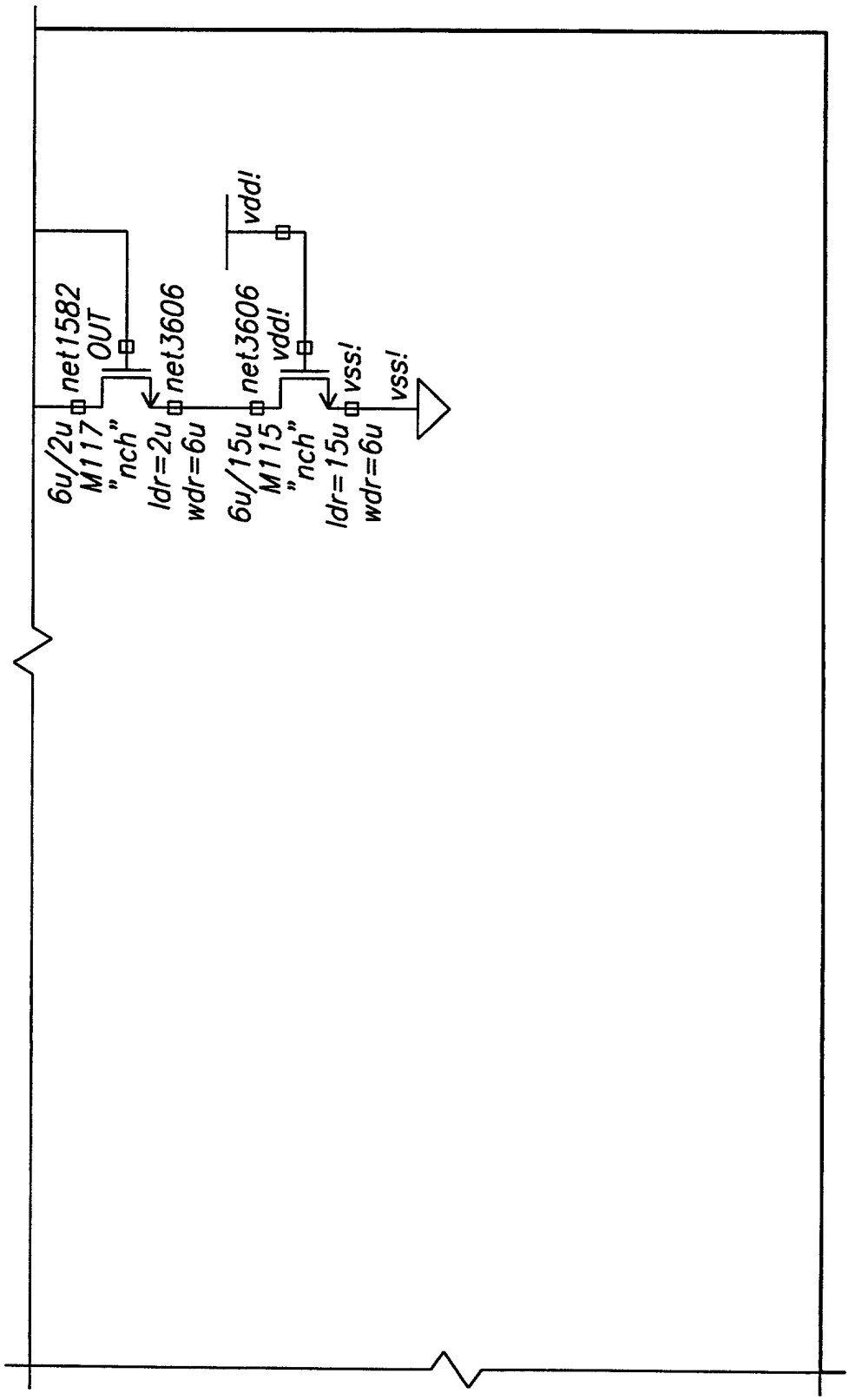


FIG 8.01DSIDE

Patent Publication Number 20020020820

T0TT90"E90Z3660

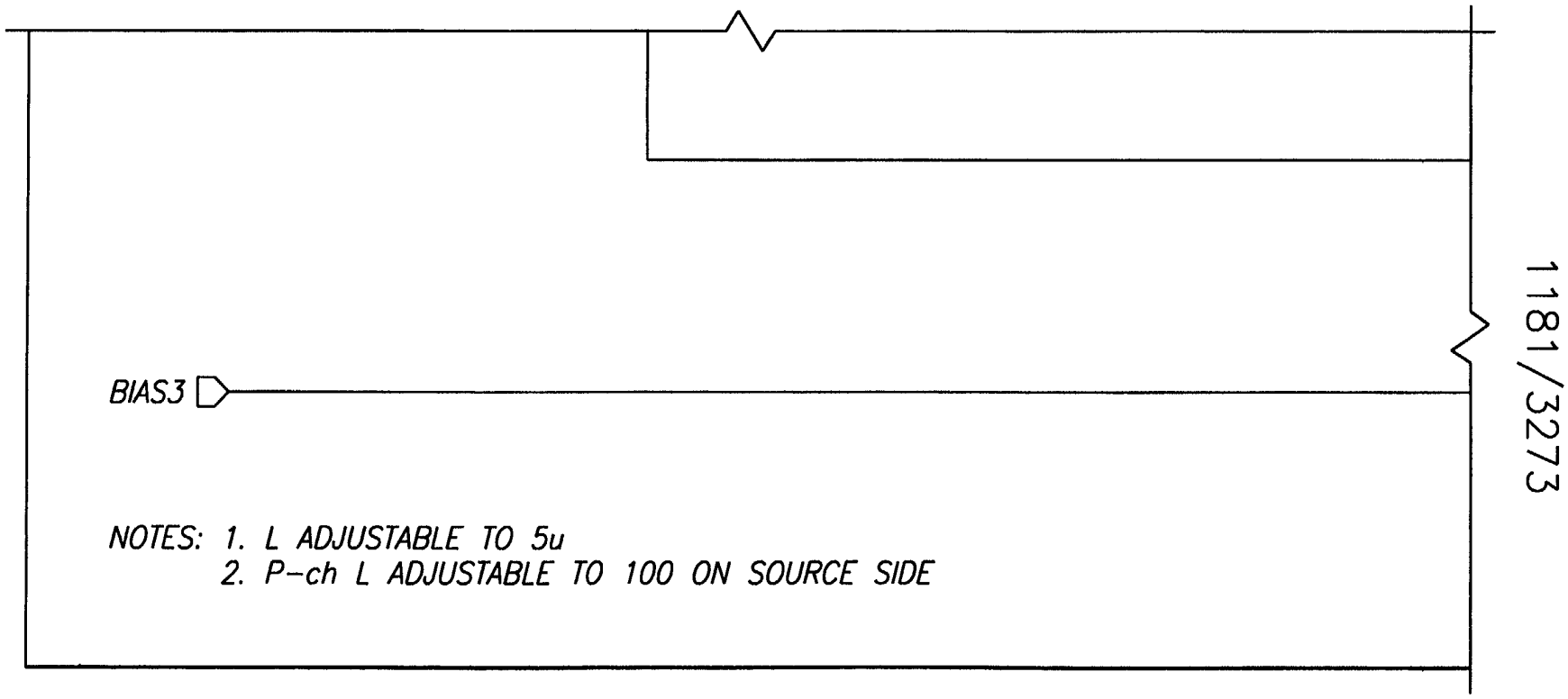


Fig 8.0105EA

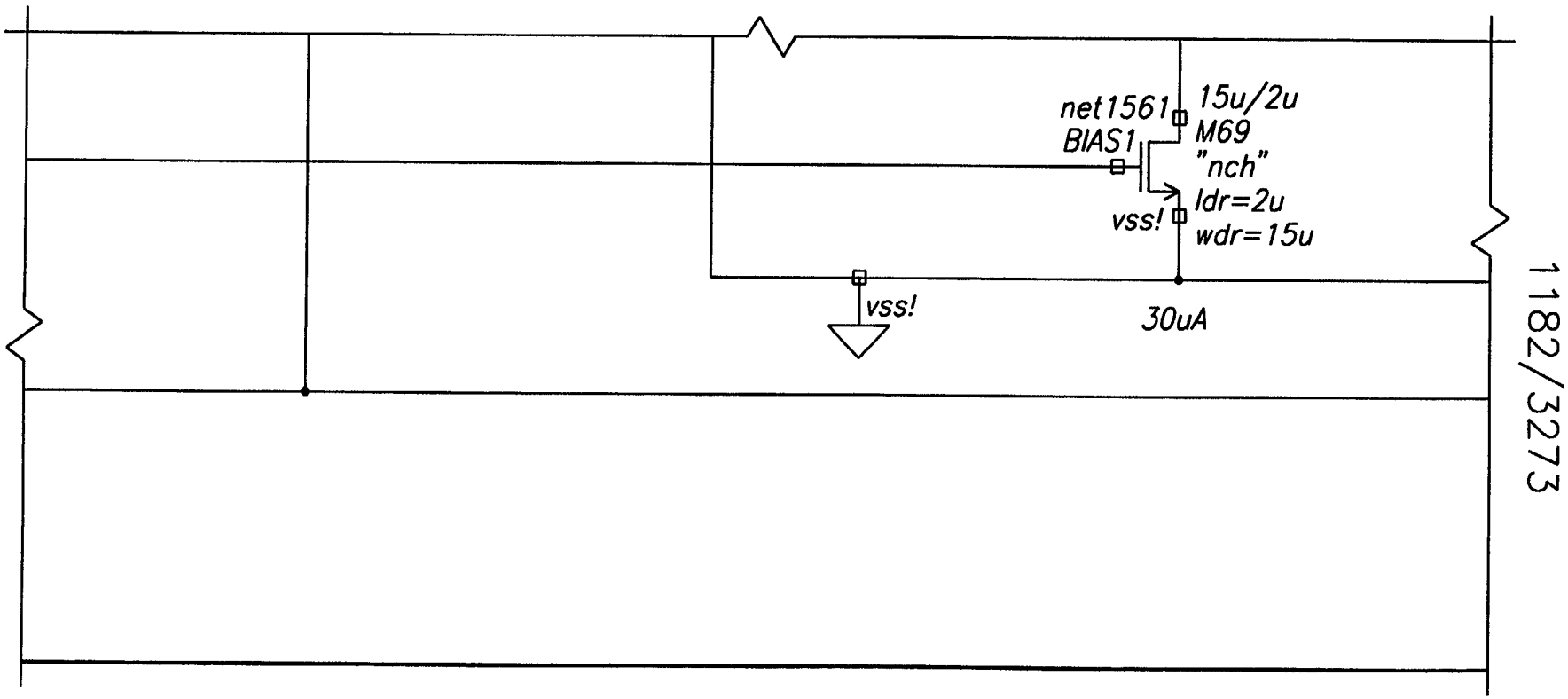
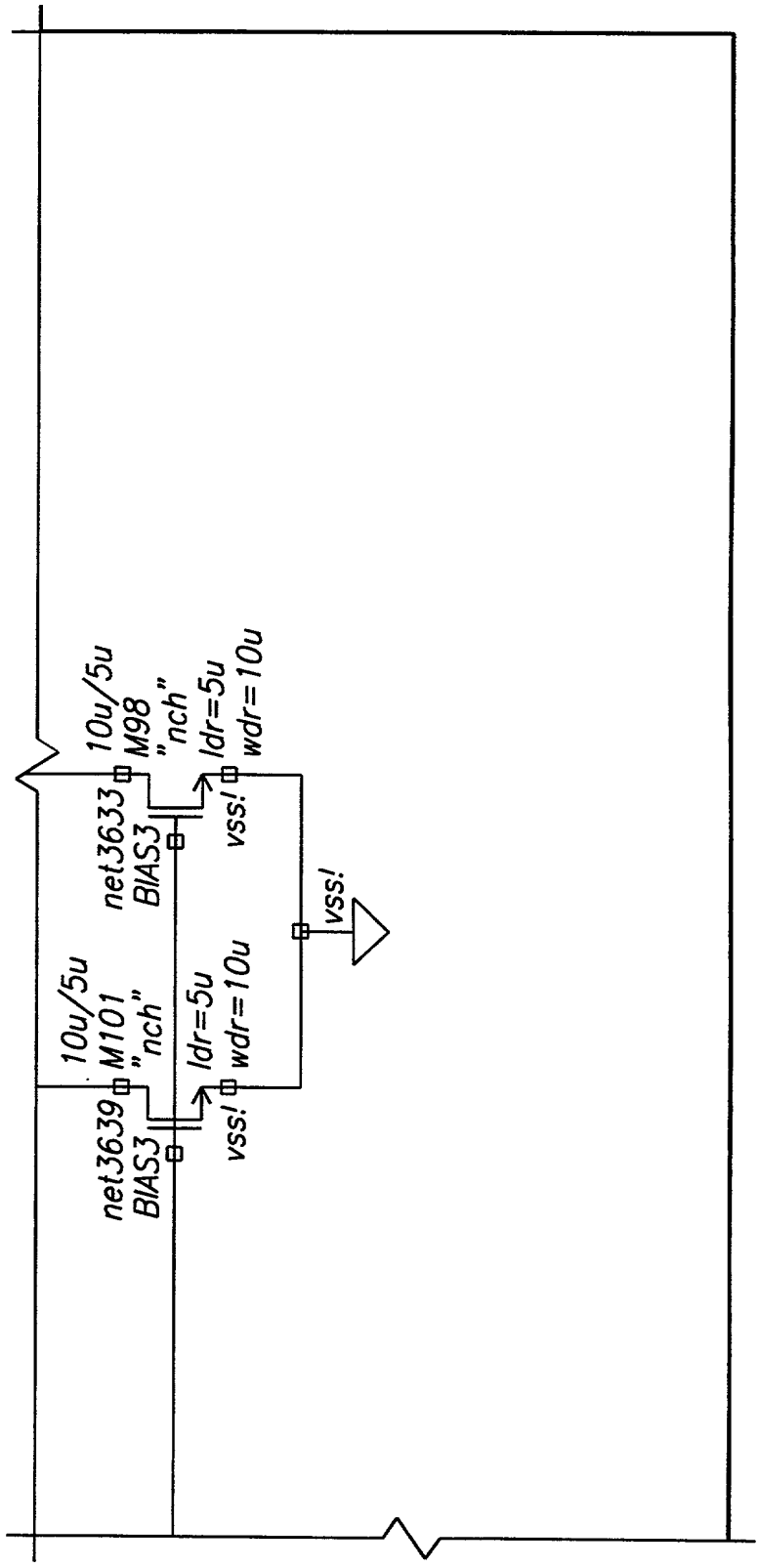

net1561
BIAS1
vss!
15u/2u
M69
"nch"
ldr=2u
wdr=15u
vss!
30uA
1182/3273

Fig 8.0105EB

1183/3273

Ex 69 98.00 1350 E

Plat: 9501295



Фиг. 8.01105EM

8.0106AA	8.0106AB	8.0106AC	8.0106AD
8.0106BA	8.0106BB	8.0106BC	8.0106BD
8.0106CA	8.0106CB	8.0106CC	8.0106CD

Fig 8.0106

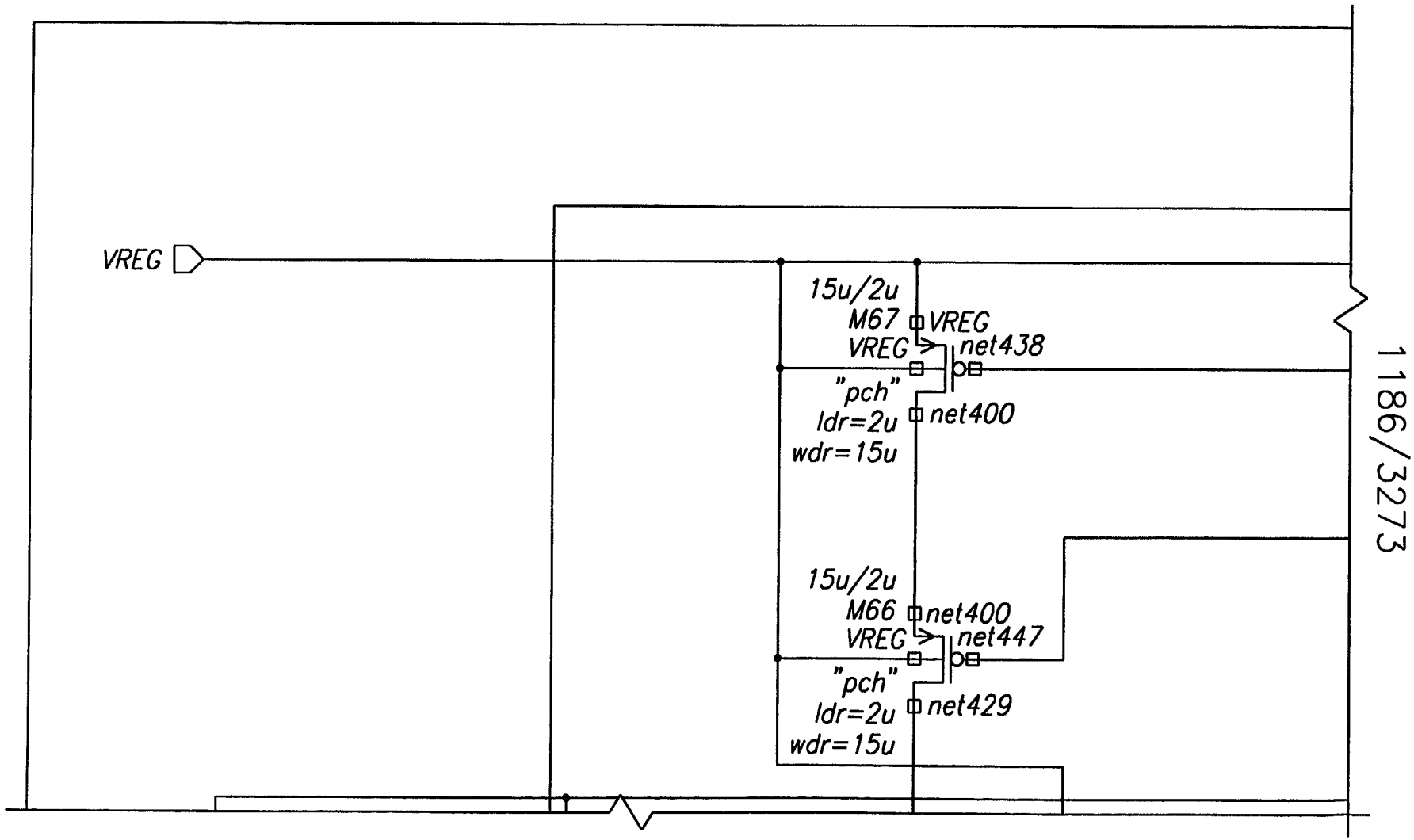

VREG
15u/2u
M67
VREG
VREG
net438
"pch"
ldr=2u
wdr=15u
net400
15u/2u
M66
net400
VREG
net447
"pch"
ldr=2u
wdr=15u
net429
1186/3273

Fig 8.0106AA

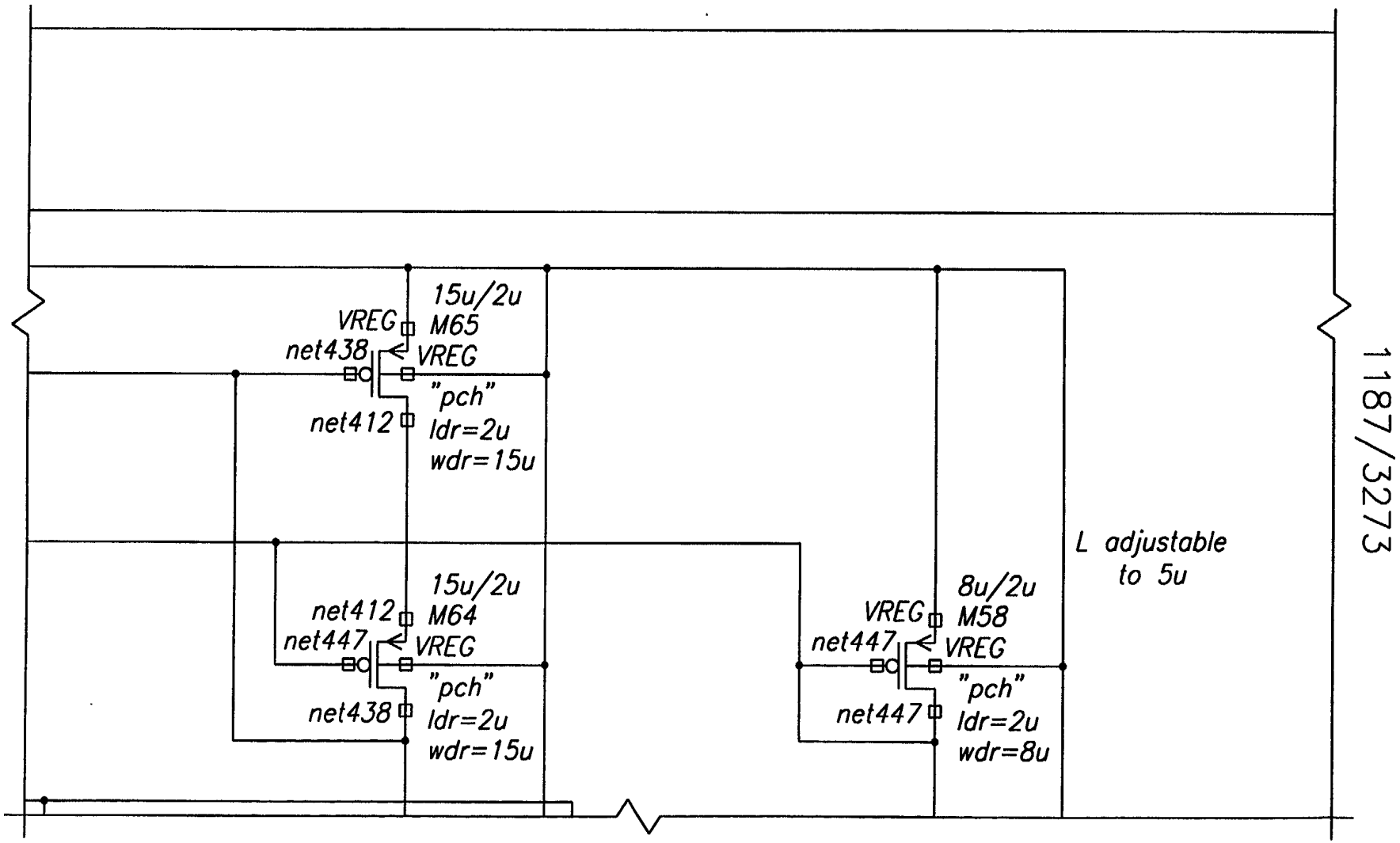
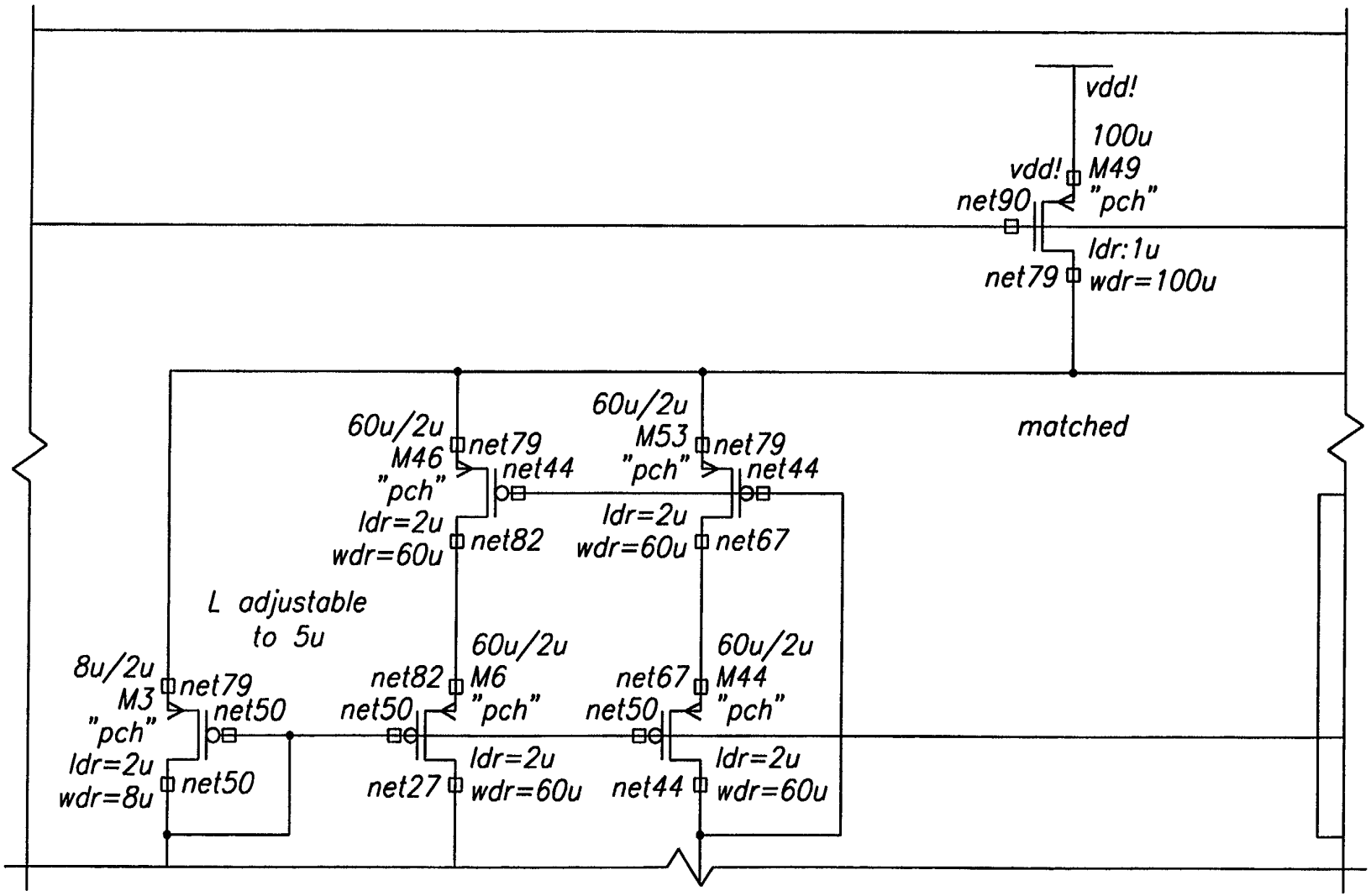

15u/2u
VREG
M65
net438
VREG
"pch"
net412
ldr=2u
wdr=15u
15u/2u
net412
M64
net447
VREG
"pch"
net438
ldr=2u
wdr=15u
8u/2u
VREG
M58
net447
VREG
"pch"
net447
ldr=2u
wdr=8u
L adjustable
to 5u
1187/3273

Fig 8.0106AB



Фиг 8.01106AC

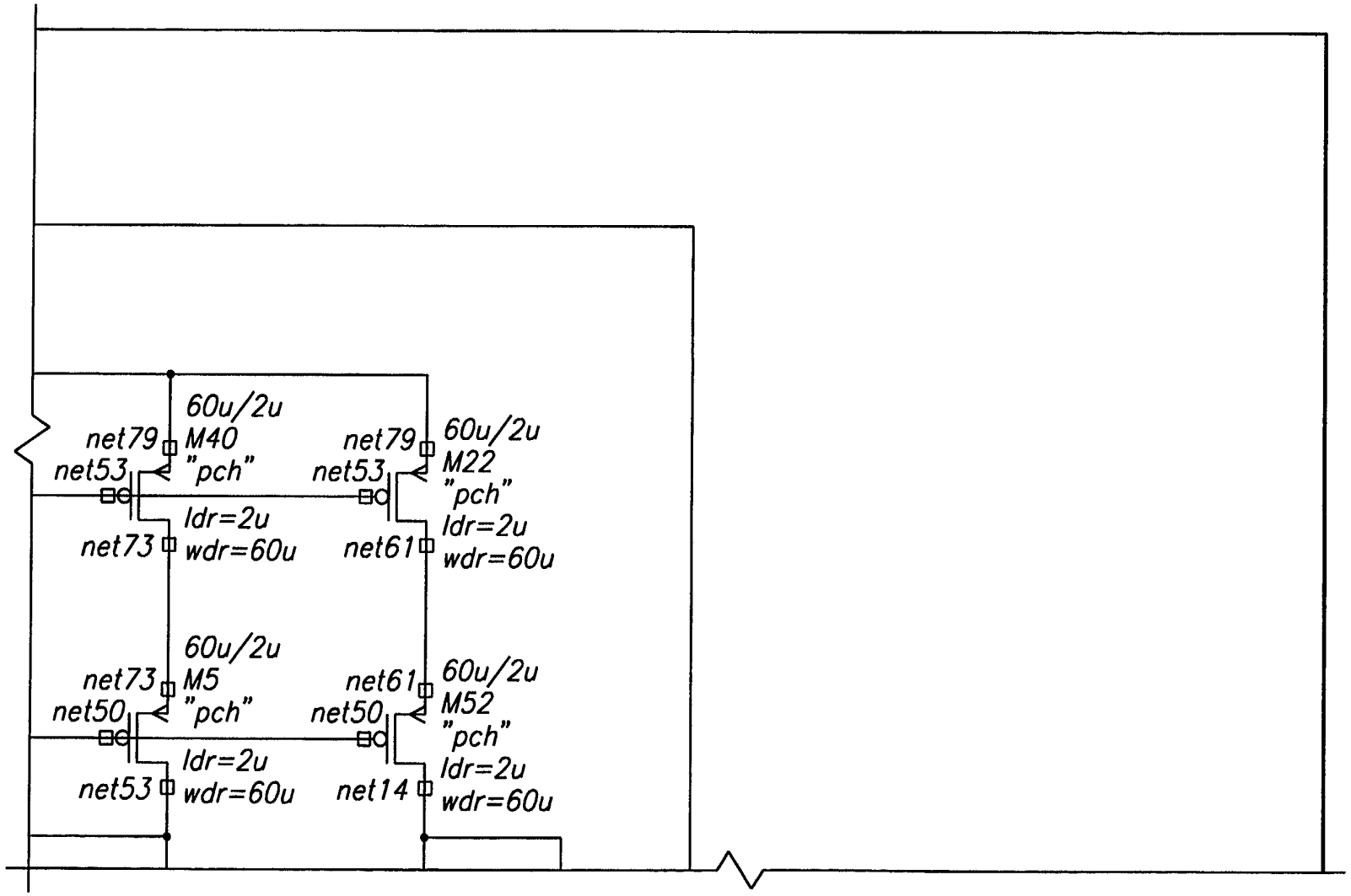


Fig 8.01060AD

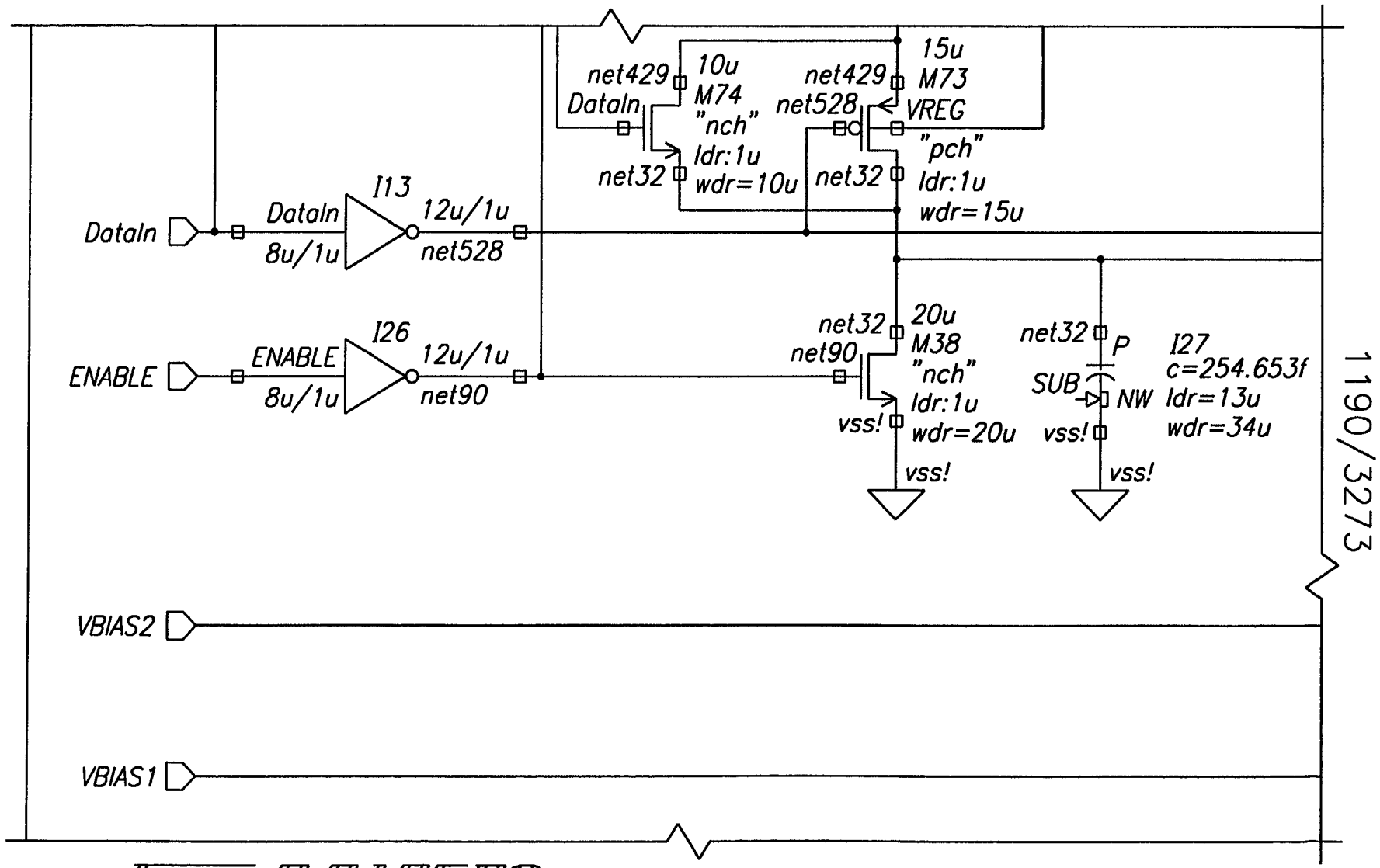

DataIn
ENABLE
VBIAS2
VBIAS1
I13
DataIn
8u/1u
12u/1u
net528
I26
ENABLE
8u/1u
12u/1u
net90
net429
DataIn
net32
10u
M74
"nch"
ldr:1u
wdr=10u
net429
net528
net32
15u
M73
VREG
"pch"
ldr:1u
wdr=15u
net32
net90
20u
M38
"nch"
ldr:1u
wdr=20u
vss!
vss!
net32
SUB
P
NW
vss!
I27
c=254.653f
ldr=13u
wdr=34u
vss!
1190/3273

Fig 8.0106BA

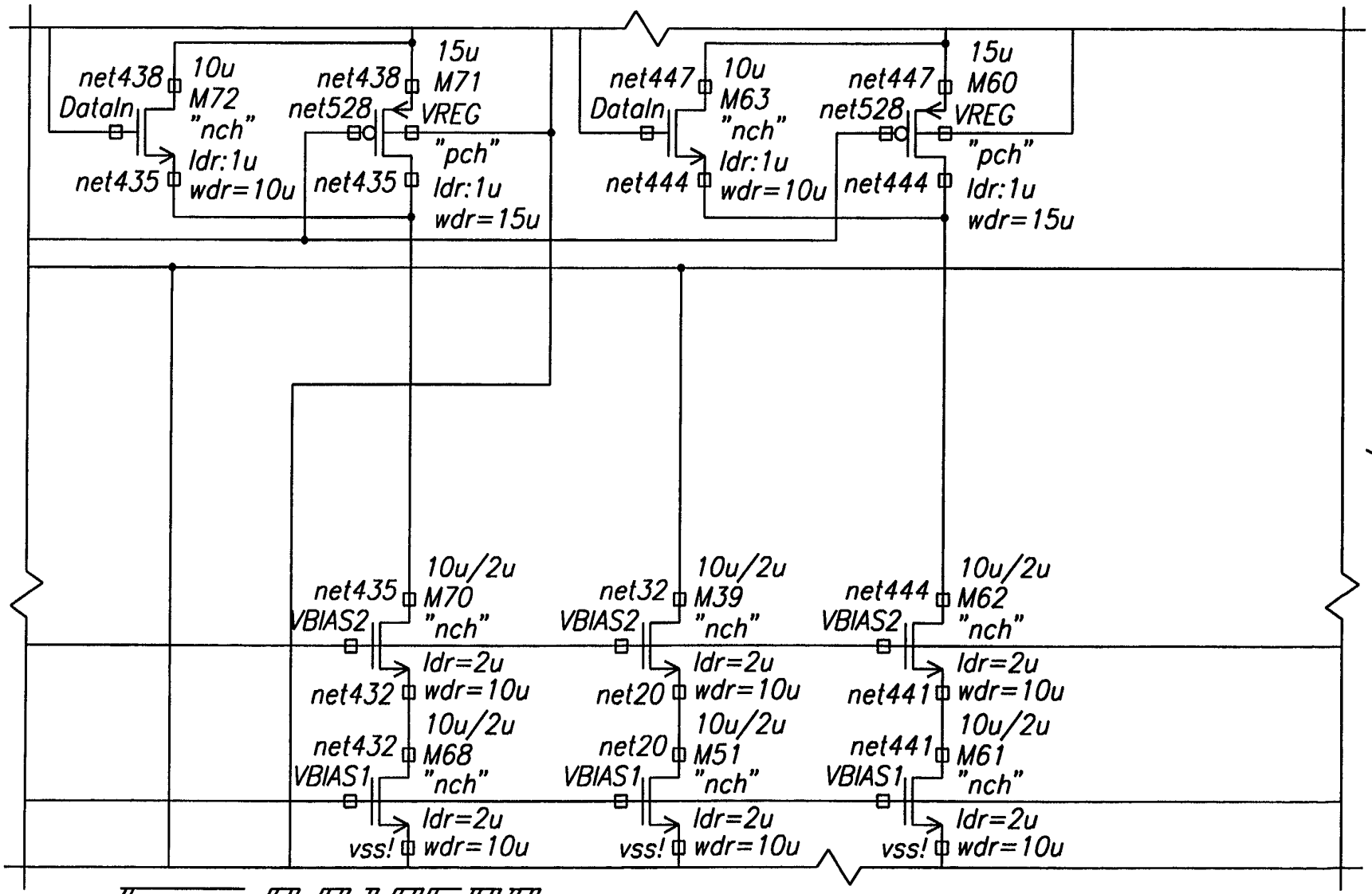

net438
DataIn
10u
M72
"nch"
ldr:1u
wdr=10u
net435
net438
net528
15u
M71
VREG
"pch"
ldr:1u
wdr=15u
net435
net447
DataIn
10u
M63
"nch"
ldr:1u
wdr=10u
net444
net447
net528
15u
M60
VREG
"pch"
ldr:1u
wdr=15u
net444
net435
VBIAS2
10u/2u
M70
"nch"
ldr=2u
wdr=10u
net432
net432
VBIAS1
10u/2u
M68
"nch"
ldr=2u
wdr=10u
vss!
net32
VBIAS2
10u/2u
M39
"nch"
ldr=2u
wdr=10u
net20
net20
VBIAS1
10u/2u
M51
"nch"
ldr=2u
wdr=10u
vss!
net444
VBIAS2
10u/2u
M62
"nch"
ldr=2u
wdr=10u
net441
net441
VBIAS1
10u/2u
M61
"nch"
ldr=2u
wdr=10u
vss!

Fig 8.01068

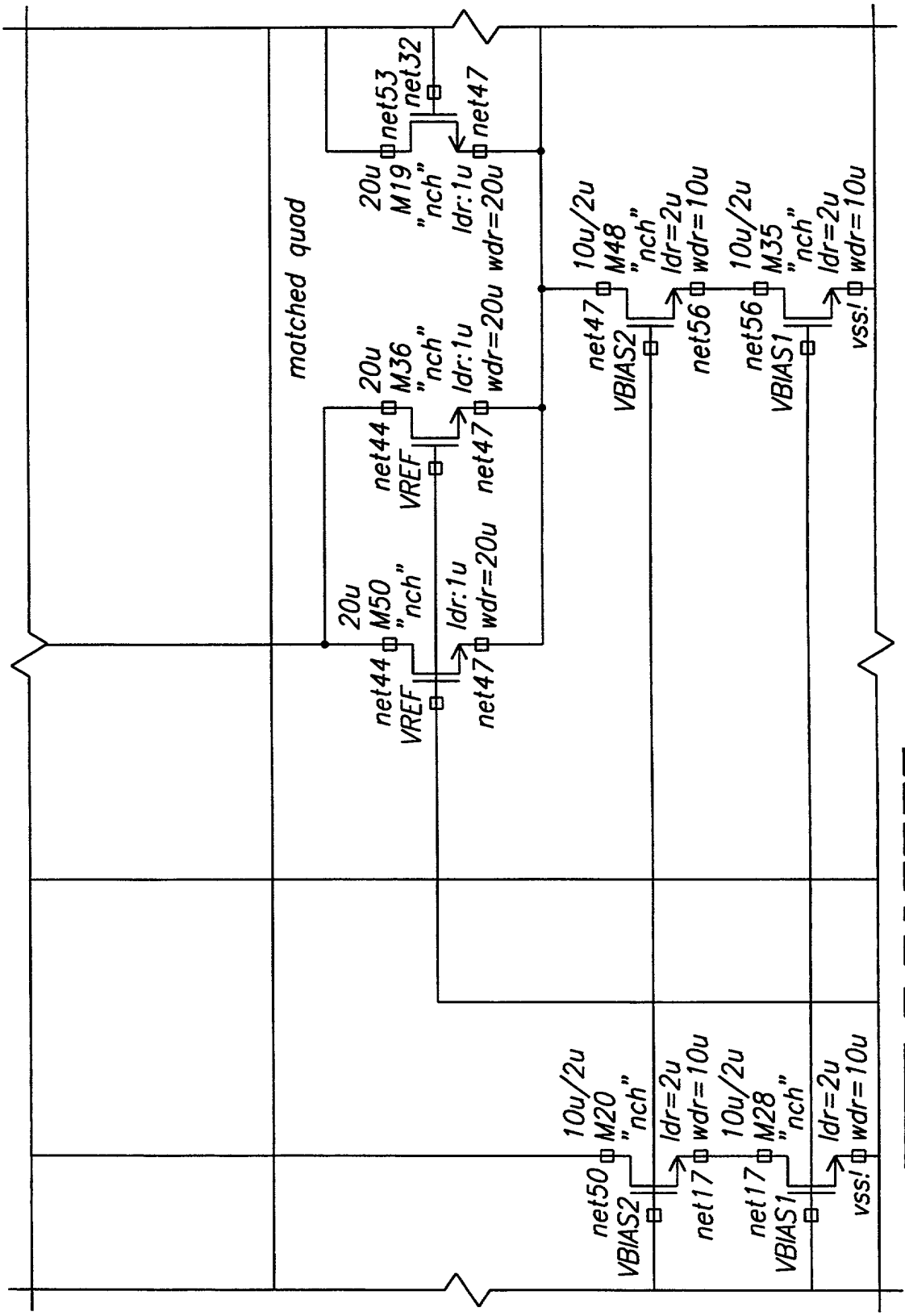


Fig. 8.00 (Sheet 1)

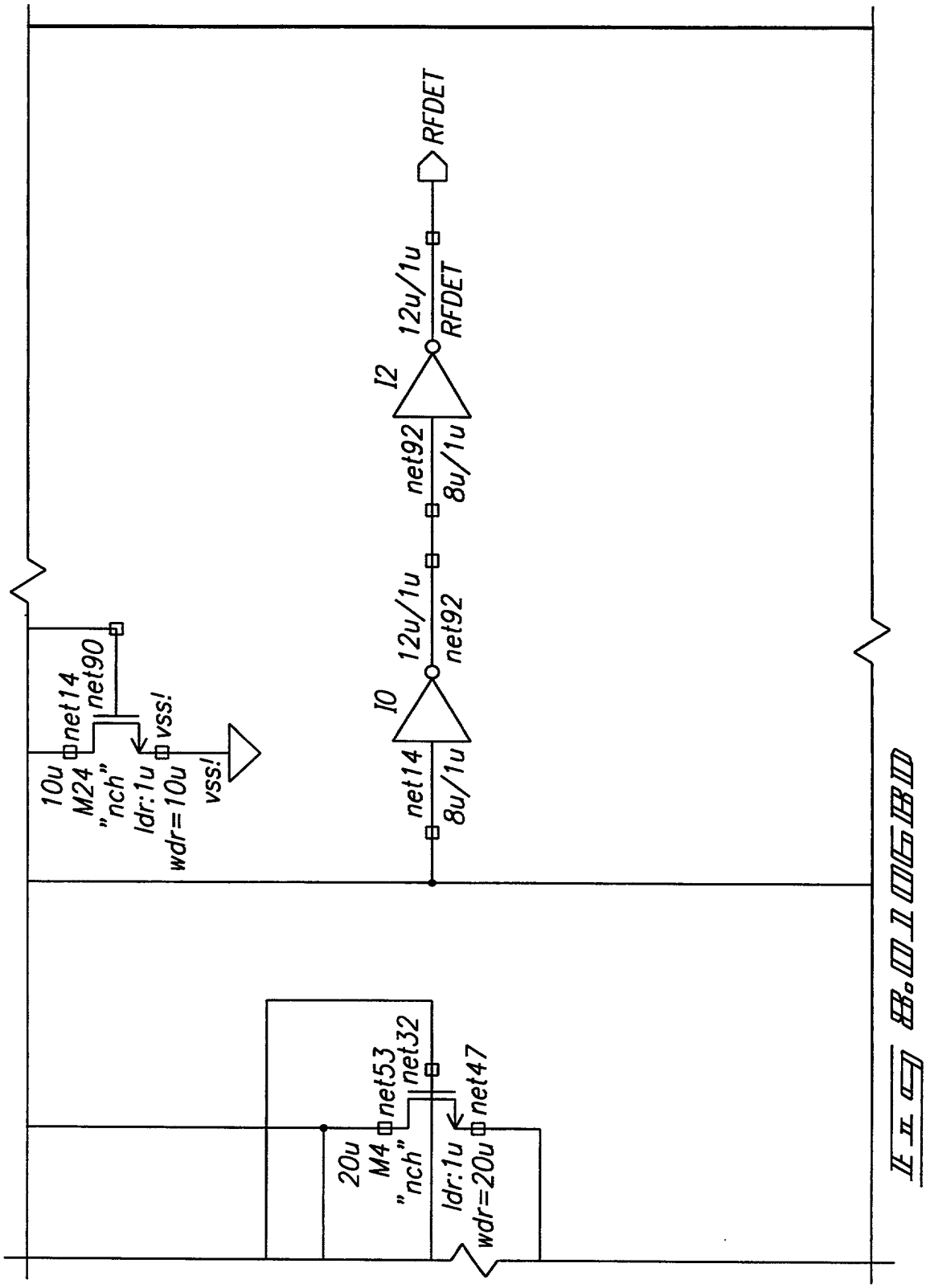


Fig 8.0100

US 6,292,936 B1

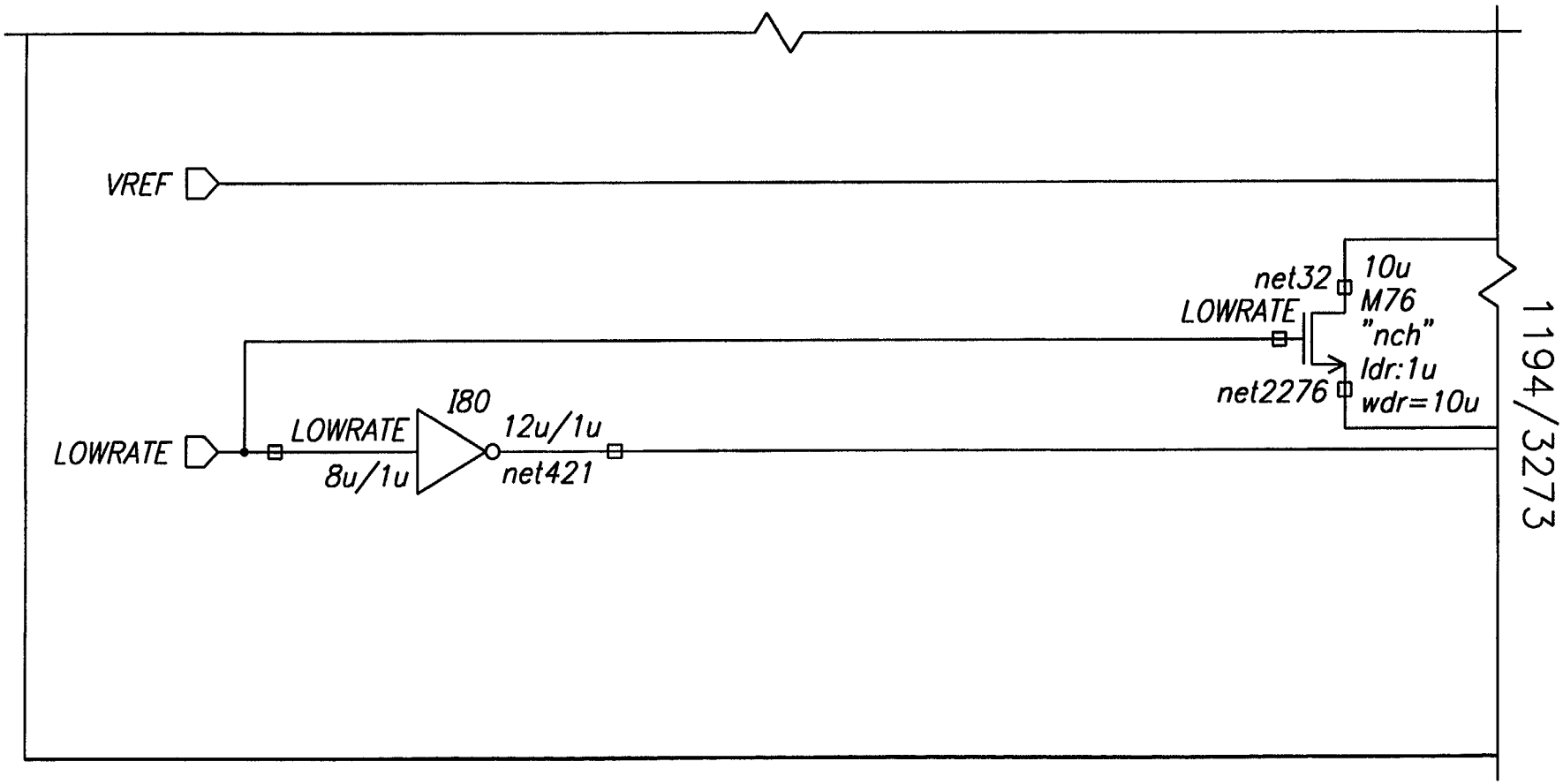

VREF
LOWRATE
LOWRATE
8u/1u
I80
12u/1u
net421
net32
LOWRATE
net2276
10u
M76
"nch"
ldr:1u
wdr=10u
1194/3273

Fig 8.0106CA

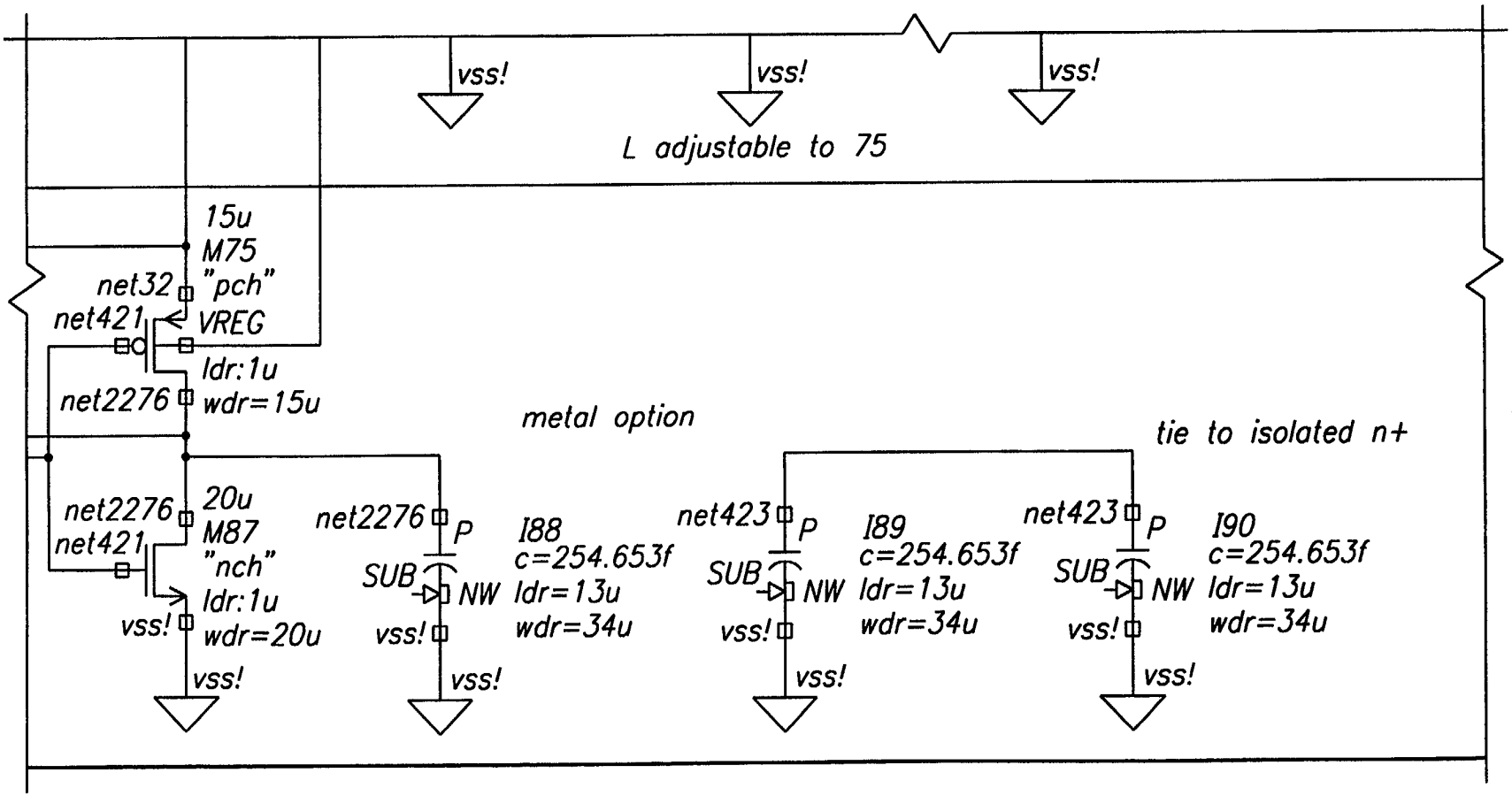


Fig 8.01106CB

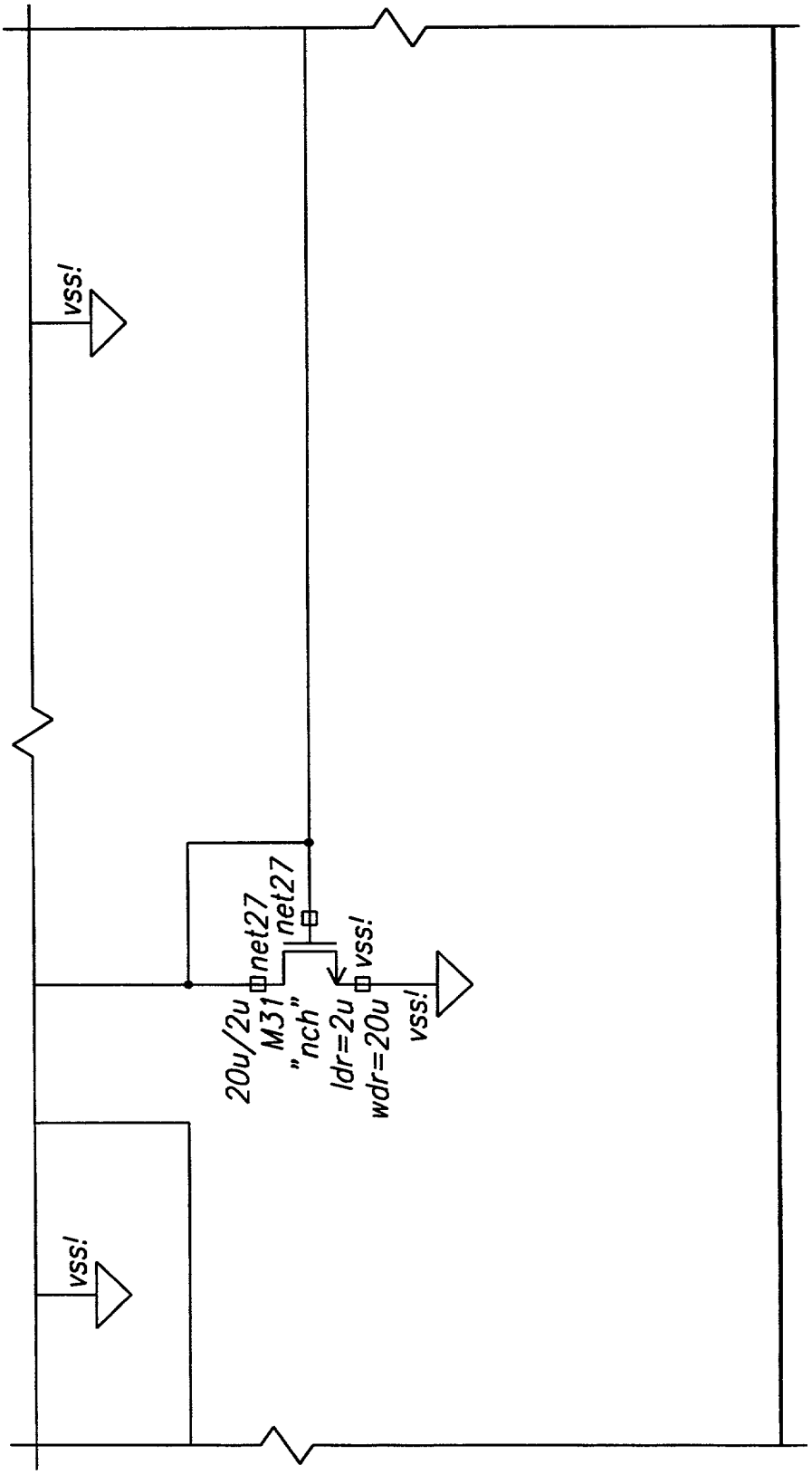


FIG 8.01

Petitpas - 10/14/99 - 09:29:29

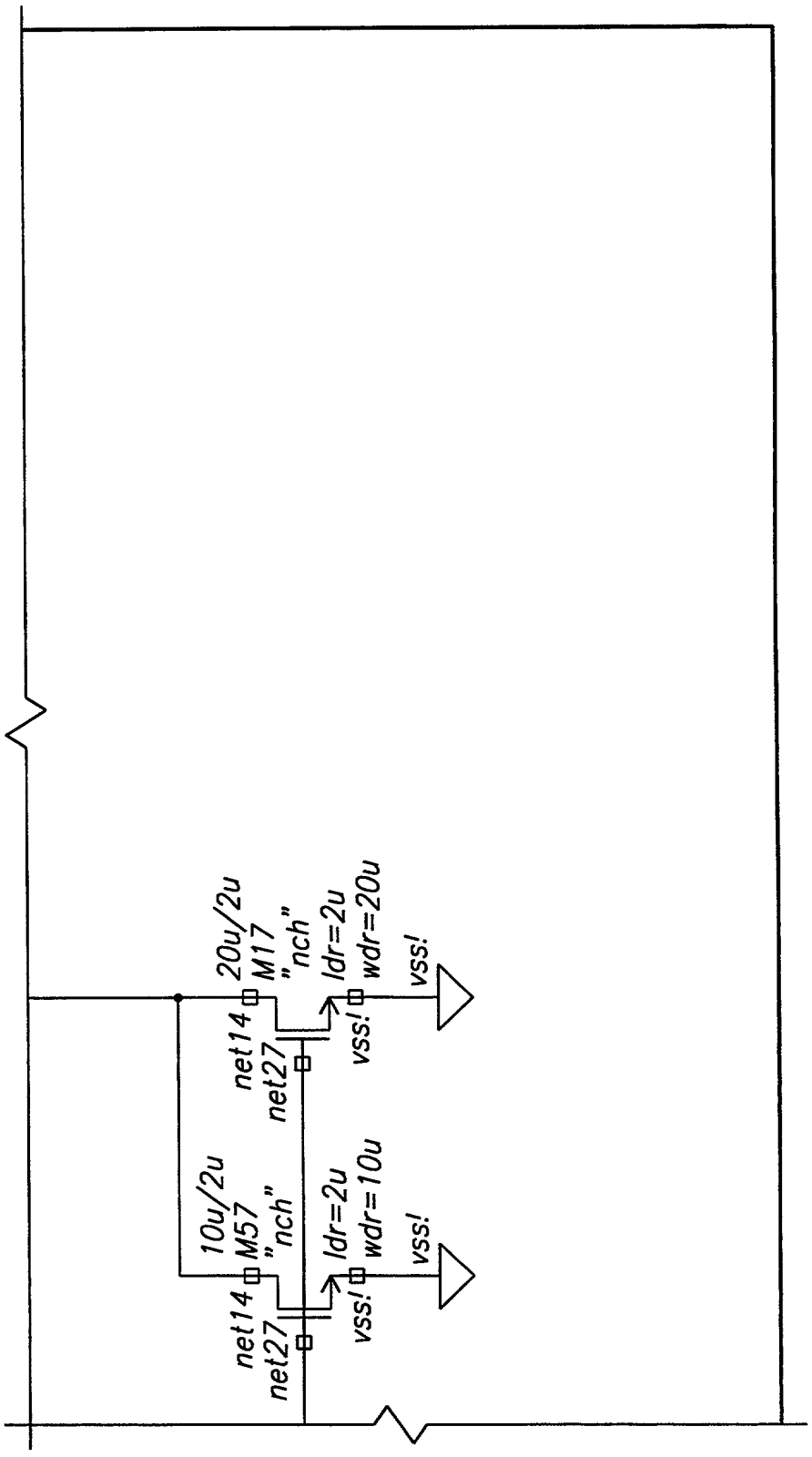


FIG 88.01

Patent application

8.0107AA	8.0107AB	8.0107AC	8.0107AD	8.0107AE	8.0107AF	8.0107AG	8.0107AH	8.0107AI	8.0107AJ	8.0107AK	8.0107AL	8.0107AM	
8.0107BA	8.0107BB	8.0107BC	8.0107BD	8.0107BE	8.0107BF	8.0107BG	8.0107BH	8.0107BI	8.0107BJ	8.0701BK	8.0107BL	8.0107BM	
8.0107CA	8.0107CB	8.0107CC	8.0107CD	8.0107CE	8.0107CF	8.0107CG	8.0107CH	8.0107CI	8.0107CJ	8.0107CK	8.0107CL	8.0107CM	8.0107CN
8.0107DA	8.0107DB	8.0107DC	8.0107DD	8.0107DE	8.0107DF	8.0107DG	8.0107DH	8.0107DI	8.0107DJ	8.0107DK	8.0107DL	8.0107DM	8.0107DN
8.0107EA	8.0107EB	8.0107EC	8.0107ED	8.0107EE	8.0107EF	8.0107EG	8.0107EH	8.0107EI	8.0107EJ	8.0107EK	8.0107EL	8.0107EM	8.0107EN
8.0107FA	8.0107FB	8.0107FC	8.0107FD	8.0107FE	8.0107FF	8.0107FG	8.0107FH	8.0107FI	8.0107FJ	8.0107FK	8.0107FL	8.0107FM	8.0107FN
8.0107GA	8.0107GB	8.0107GC	8.0107GD	8.0107GE	8.0107GF	8.0107GG	8.0107GH	8.0107GI	8.0107GJ	8.0107GK	8.0107GL	8.0107GM	8.0107GN

Fig 8.0107

0074505 - 0074505

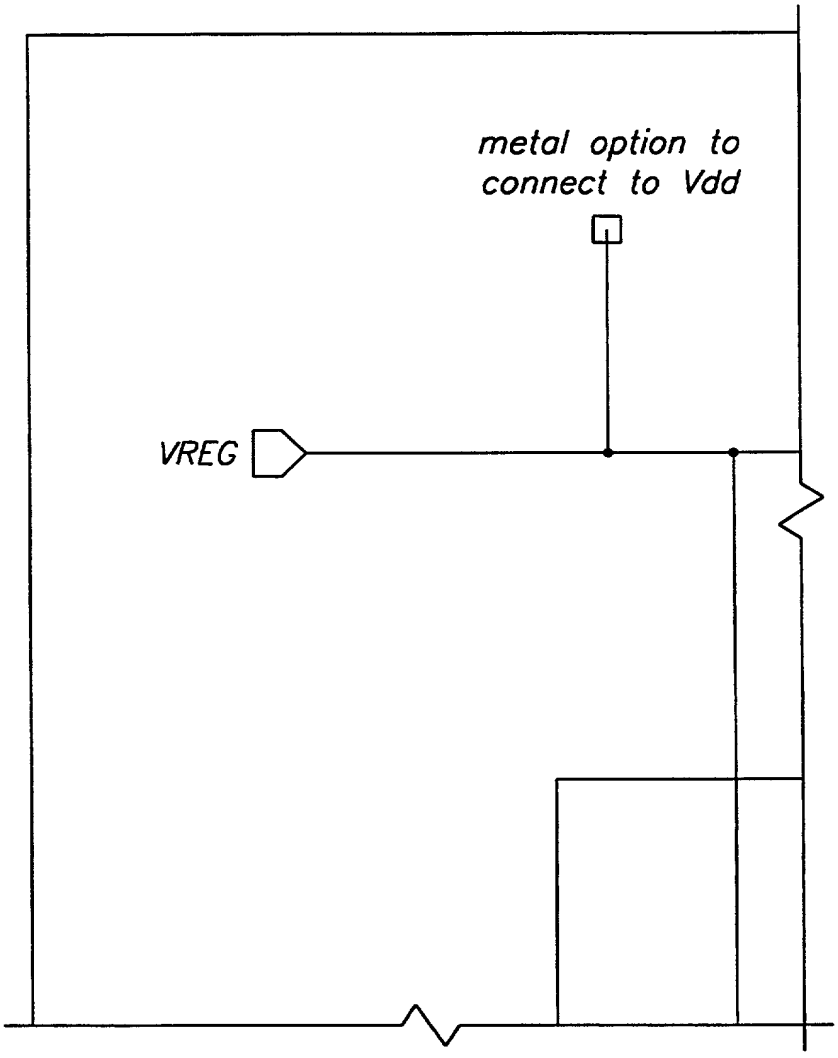


Fig 8.0100AA

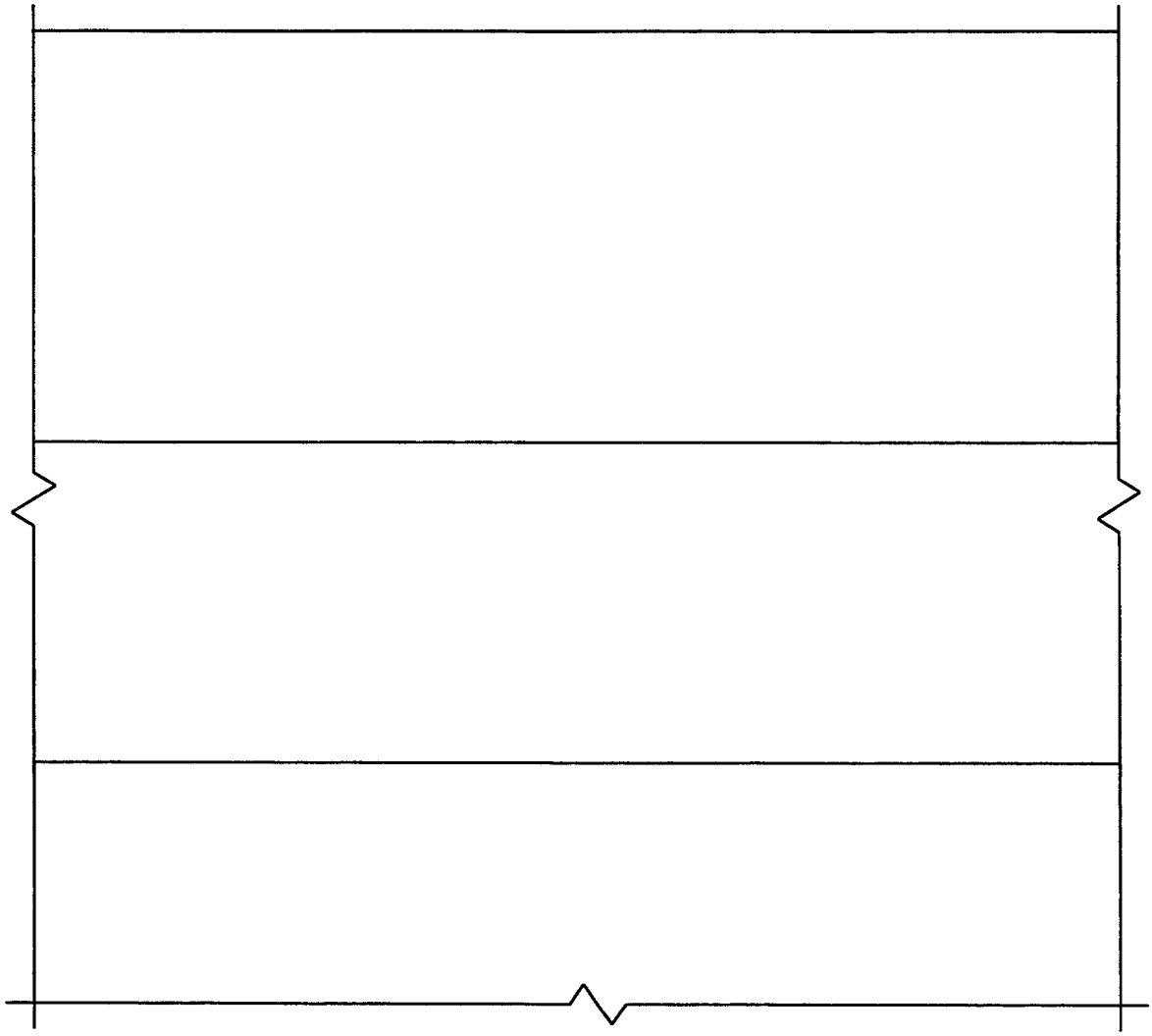


Рис. 8.0107АВ

Сервер - 05.11.2009

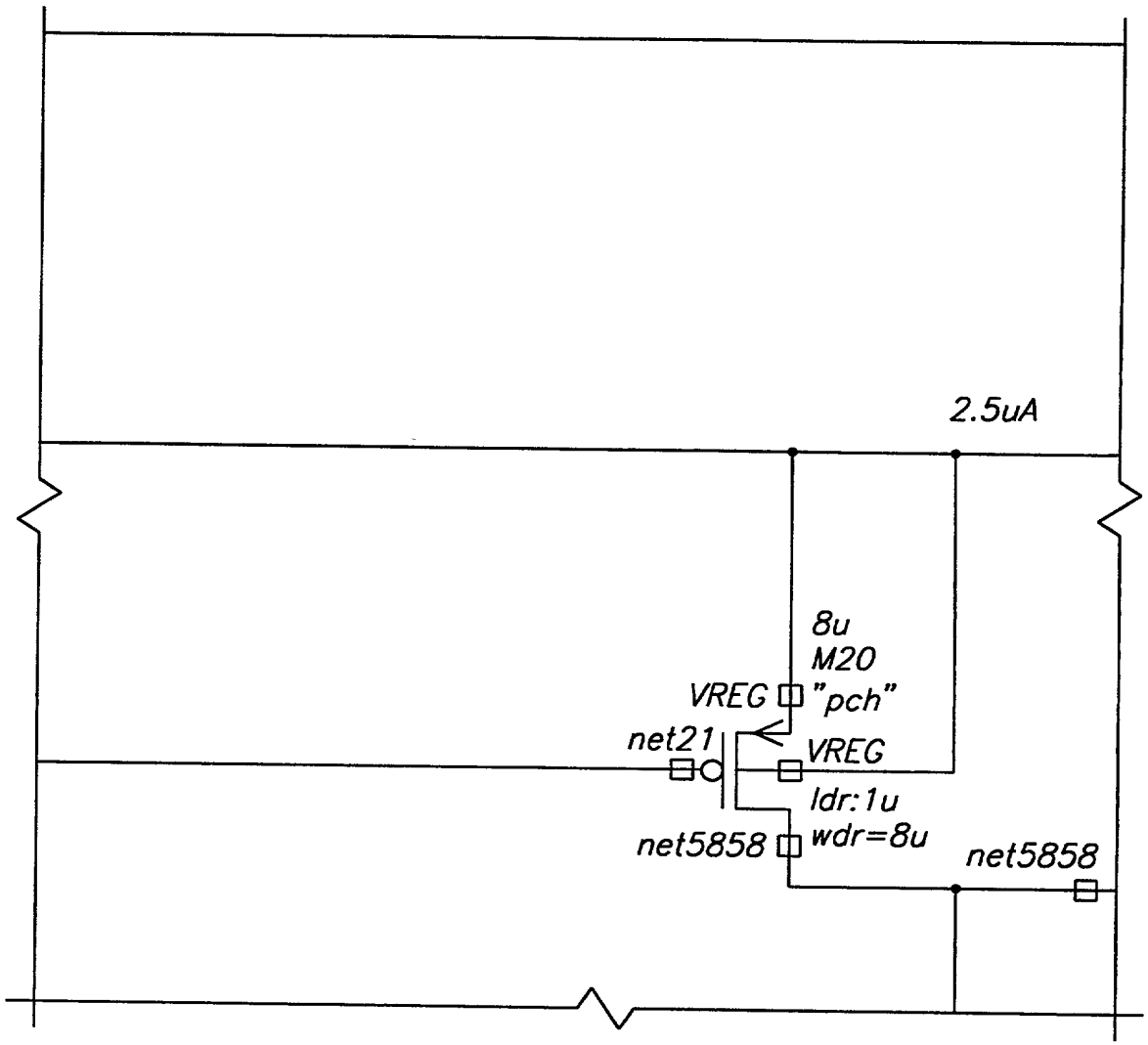


Fig 8.0110AC

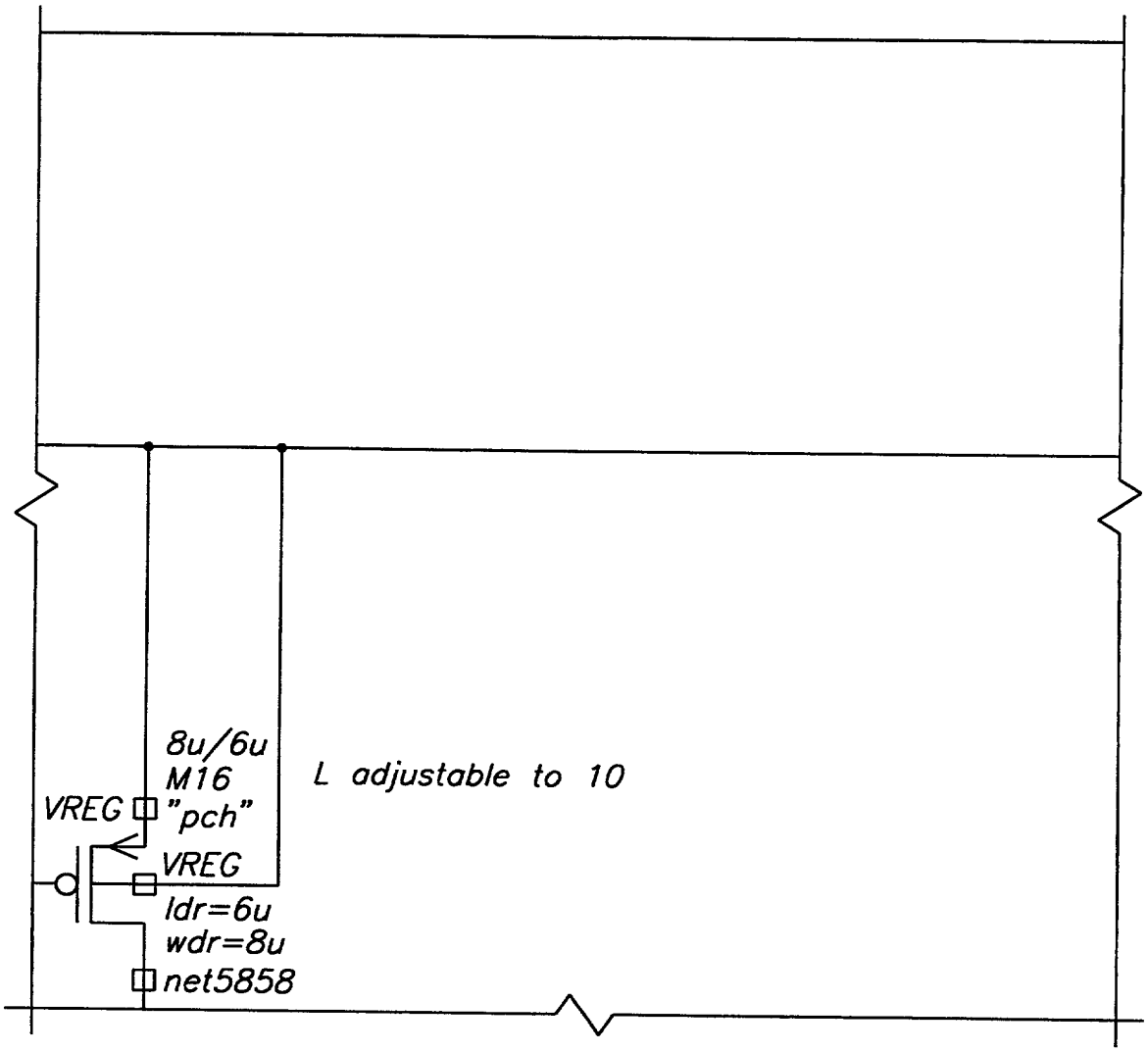

8u/6u
M16
"pch"
VREG
VREG
ldr=6u
wdr=8u
net5858
L adjustable to 10

Fig 8.10.10

Document - 05/14/04

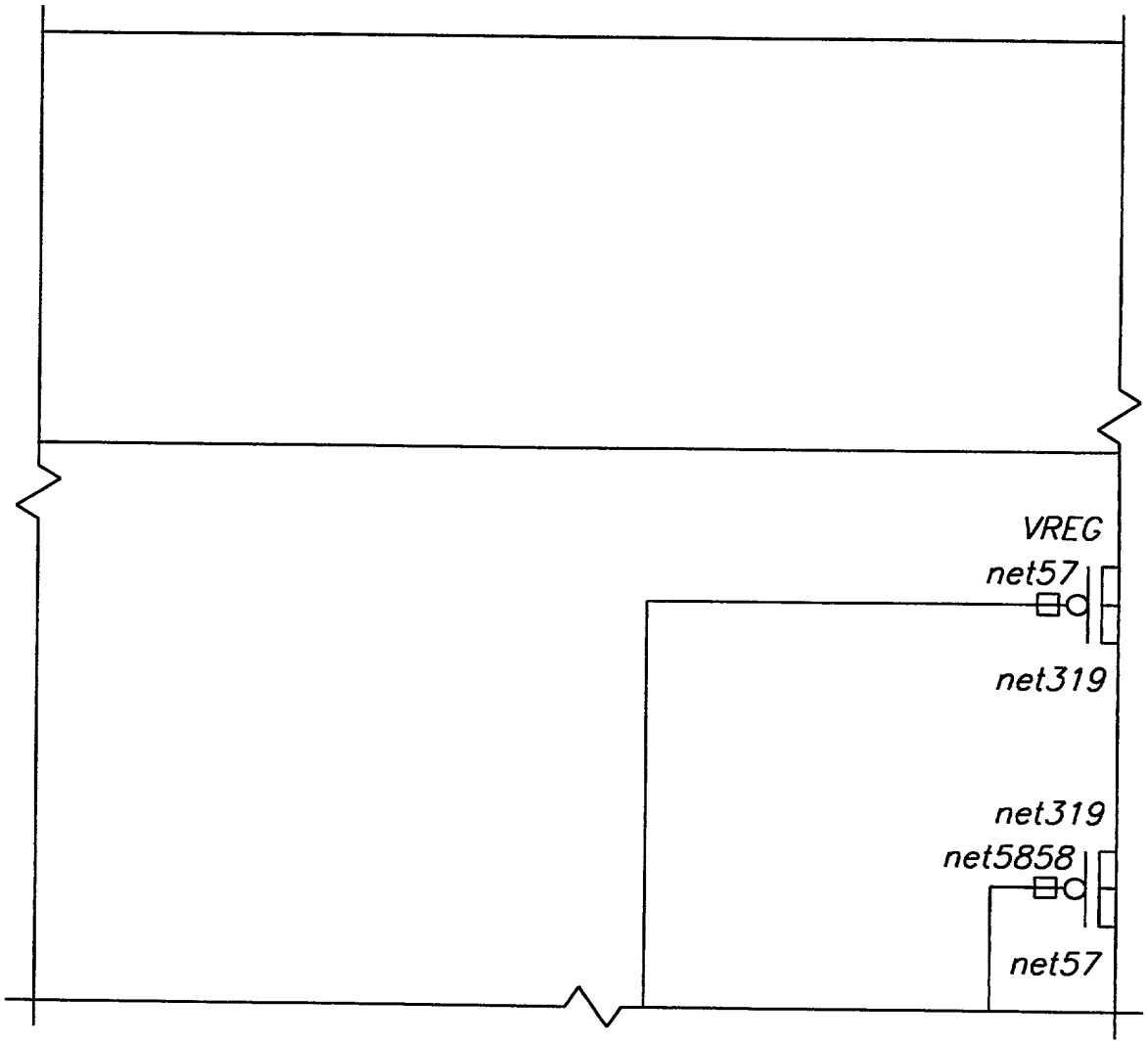


Fig 8.0107AE

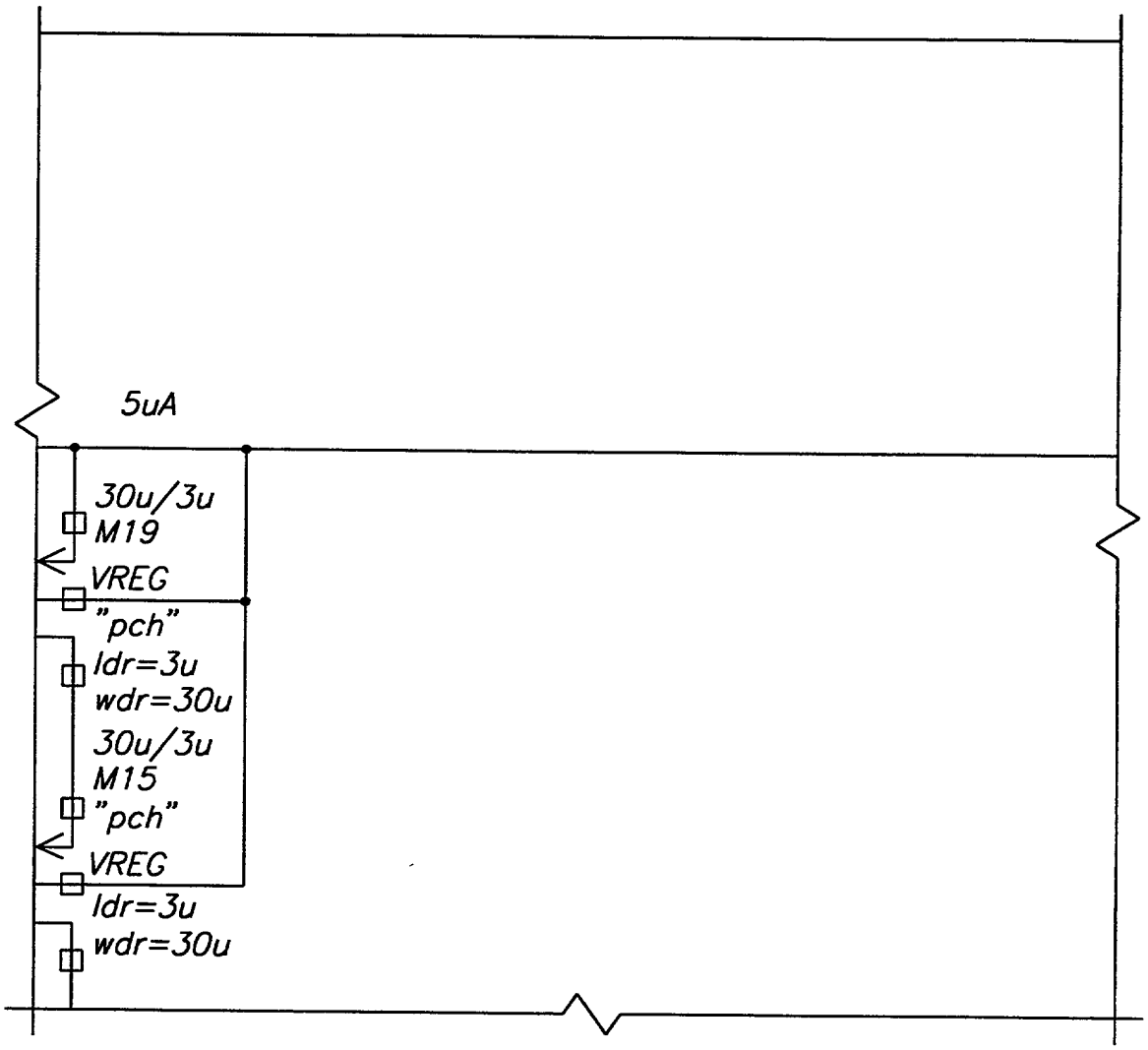
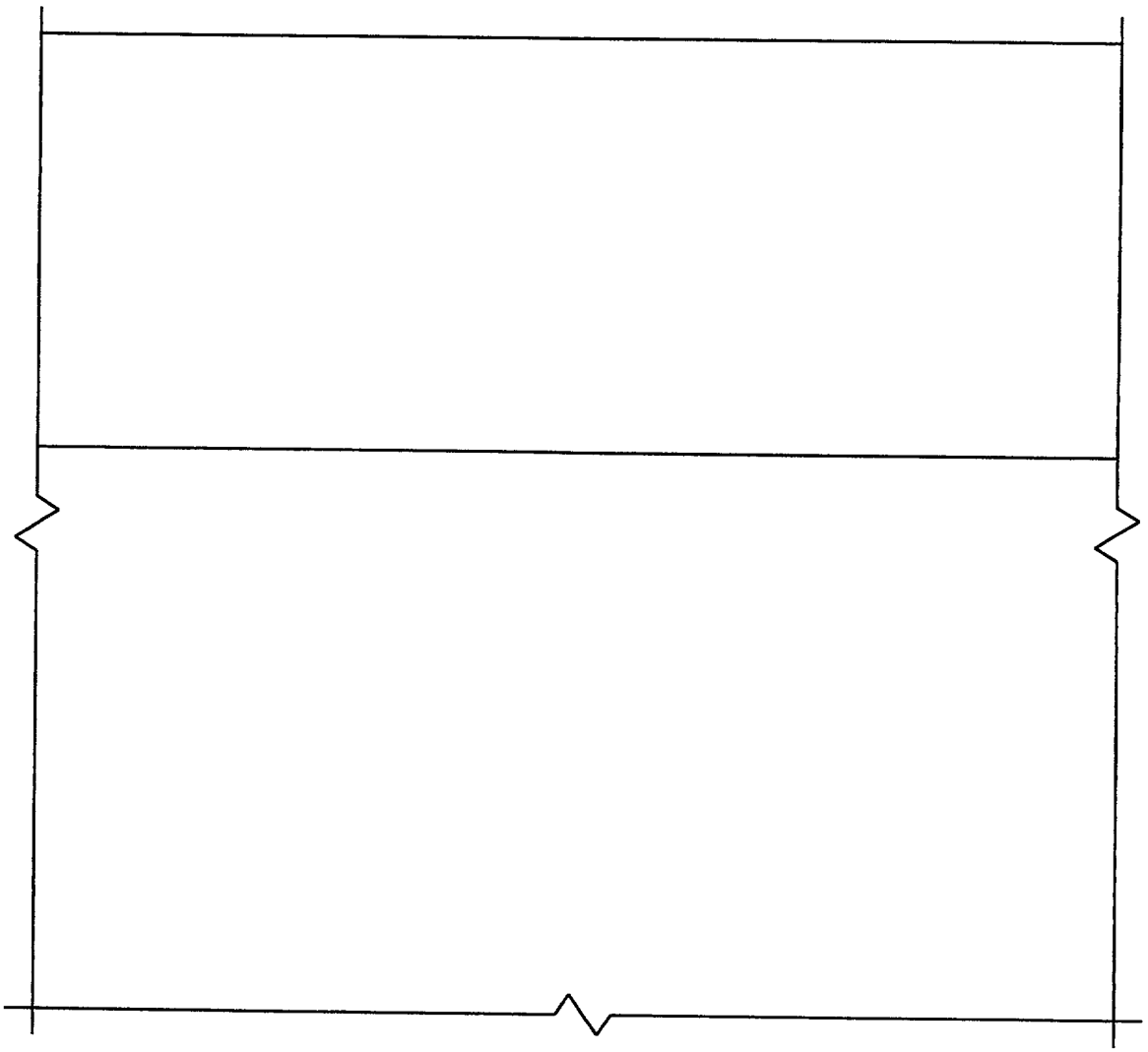

5uA
30u/3u
M19
VREG
"pch"
ldr=3u
wdr=30u
30u/3u
M15
"pch"
VREG
ldr=3u
wdr=30u

Fig 8.10TIAF

1205/3273



Лд 8.0107АБ

Подписано

US 6,459,325 B1

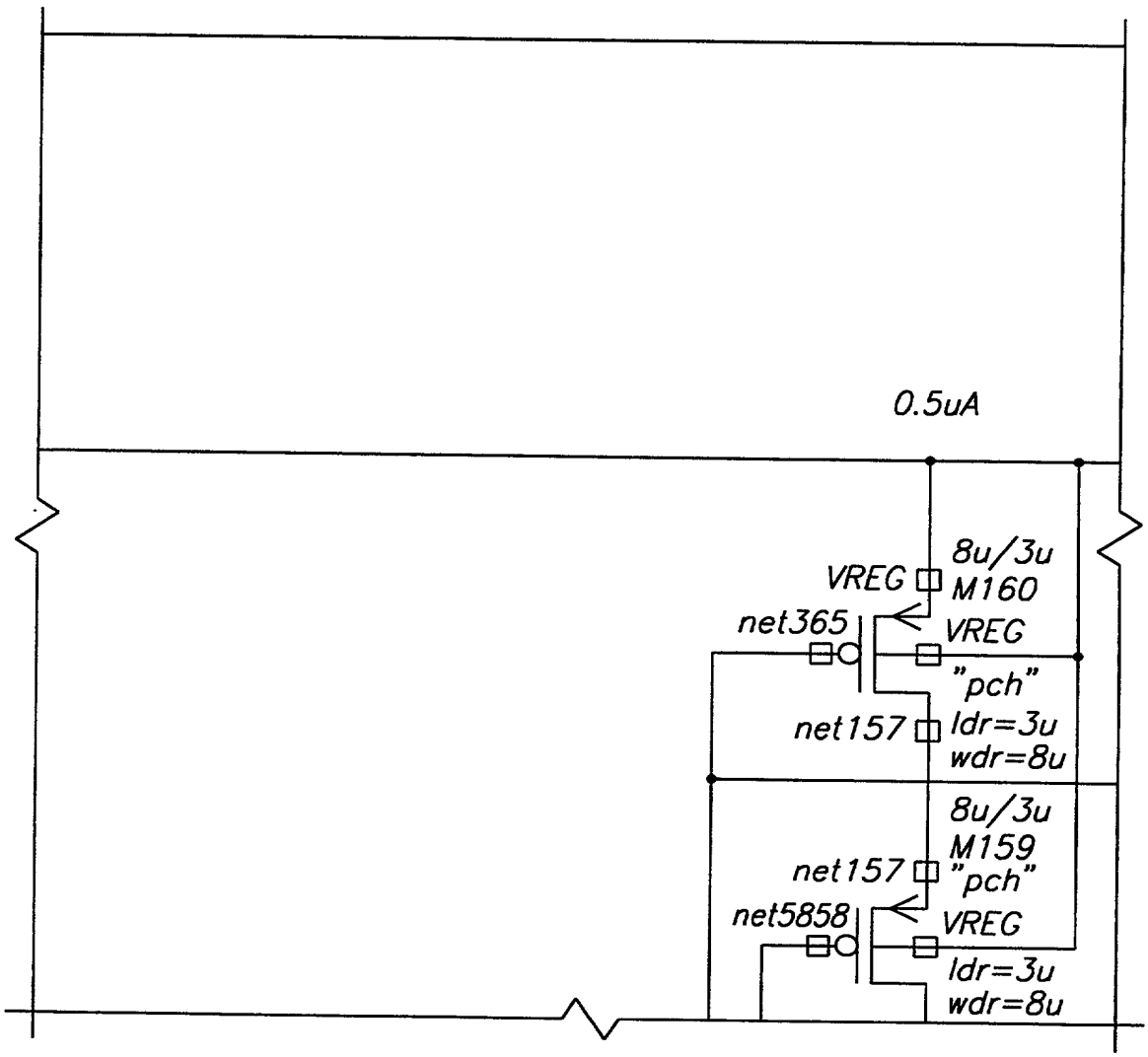
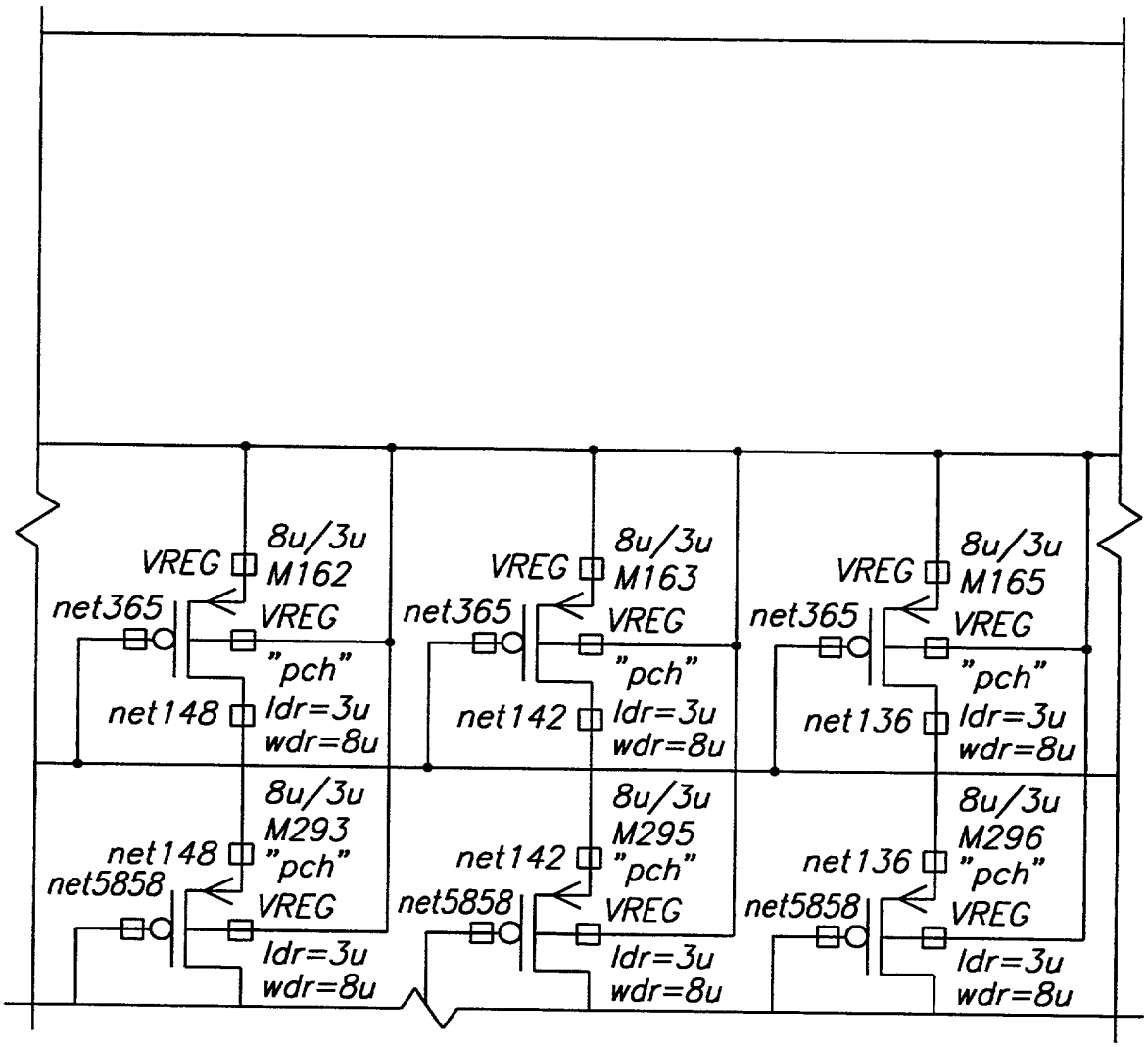


Fig 8.0107AH


8u/3u
M162
VREG
net365
VREG
"pch"
net148
ldr=3u
wdr=8u
8u/3u
M163
VREG
net365
VREG
"pch"
net142
ldr=3u
wdr=8u
8u/3u
M165
VREG
net365
VREG
"pch"
net136
ldr=3u
wdr=8u
8u/3u
M293
net148
"pch"
net5858
VREG
ldr=3u
wdr=8u
8u/3u
M295
net142
"pch"
net5858
VREG
ldr=3u
wdr=8u
8u/3u
M296
net136
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VREG
ldr=3u
wdr=8u

Фиг 8.0107АП

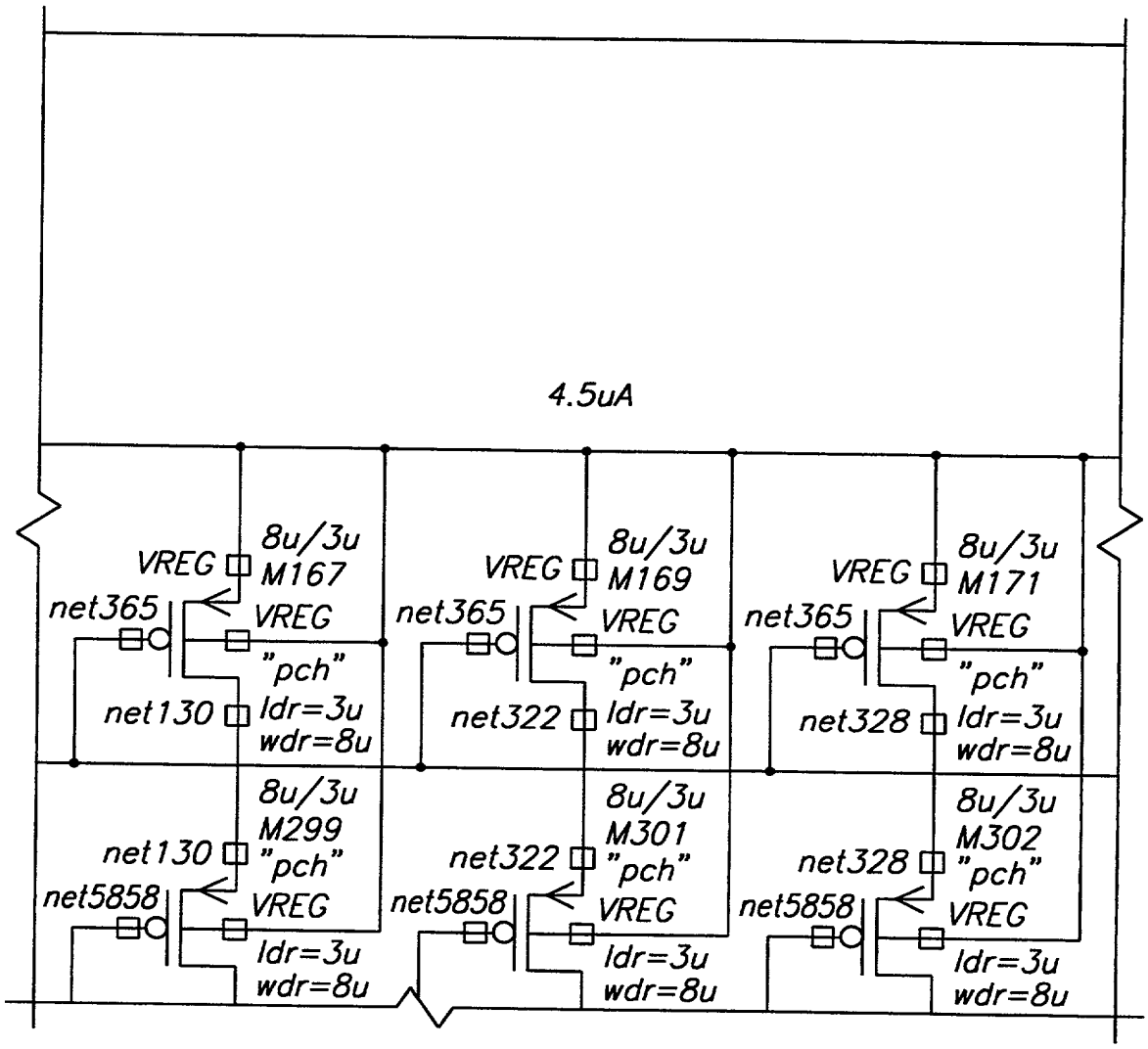
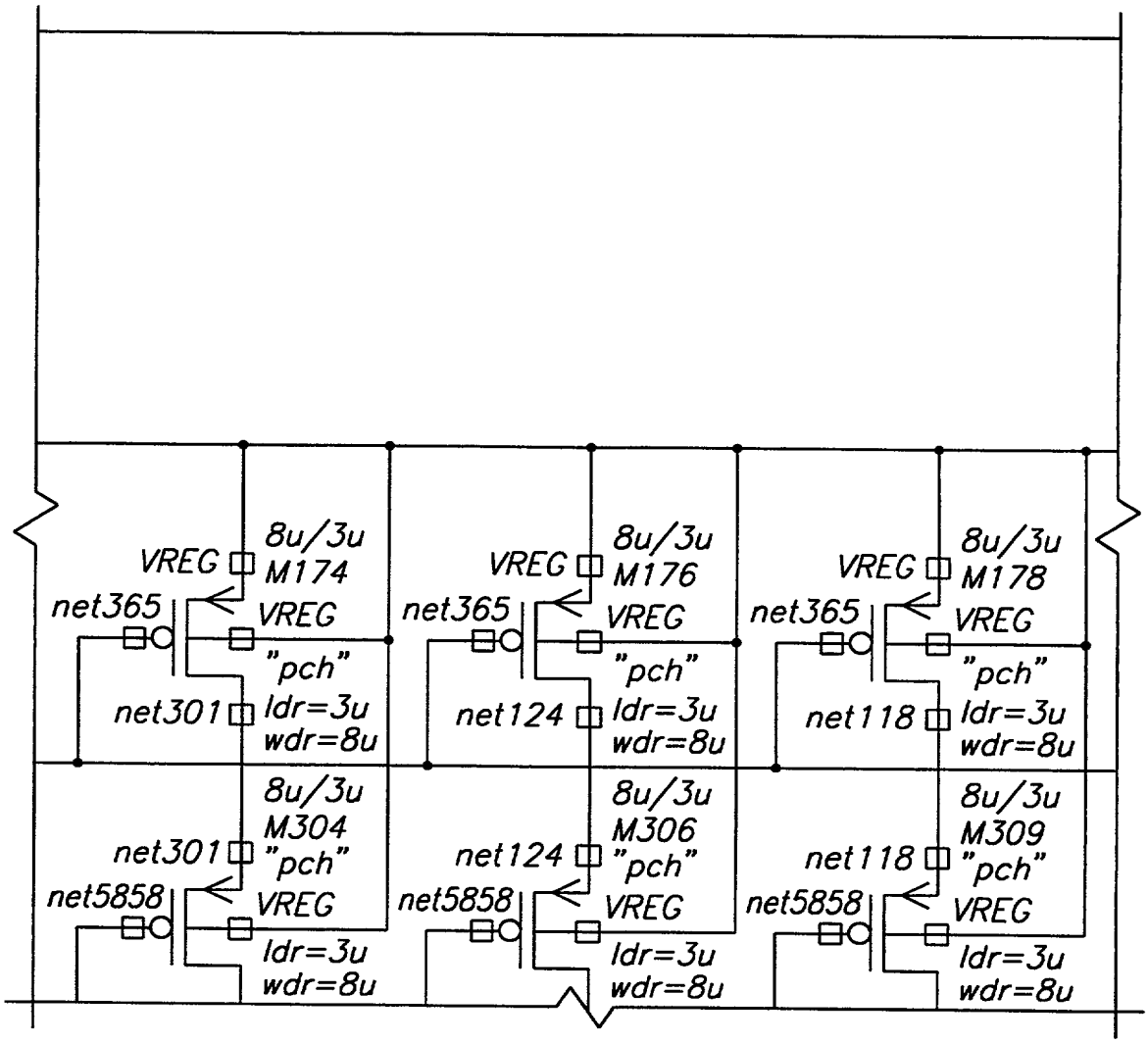

4.5uA
8u/3u
M167
VREG
net365
VREG
"pch"
net130
ldr=3u
wdr=8u
8u/3u
M169
VREG
net365
VREG
"pch"
net322
ldr=3u
wdr=8u
8u/3u
M171
VREG
net365
VREG
"pch"
net328
ldr=3u
wdr=8u
8u/3u
M299
net130
"pch"
net5858
VREG
ldr=3u
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8u/3u
M301
net322
"pch"
net5858
VREG
ldr=3u
wdr=8u
8u/3u
M302
net328
"pch"
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VREG
ldr=3u
wdr=8u

Fig 8.10.1Aa

US005952859A



Фиг. 8.111.1ак

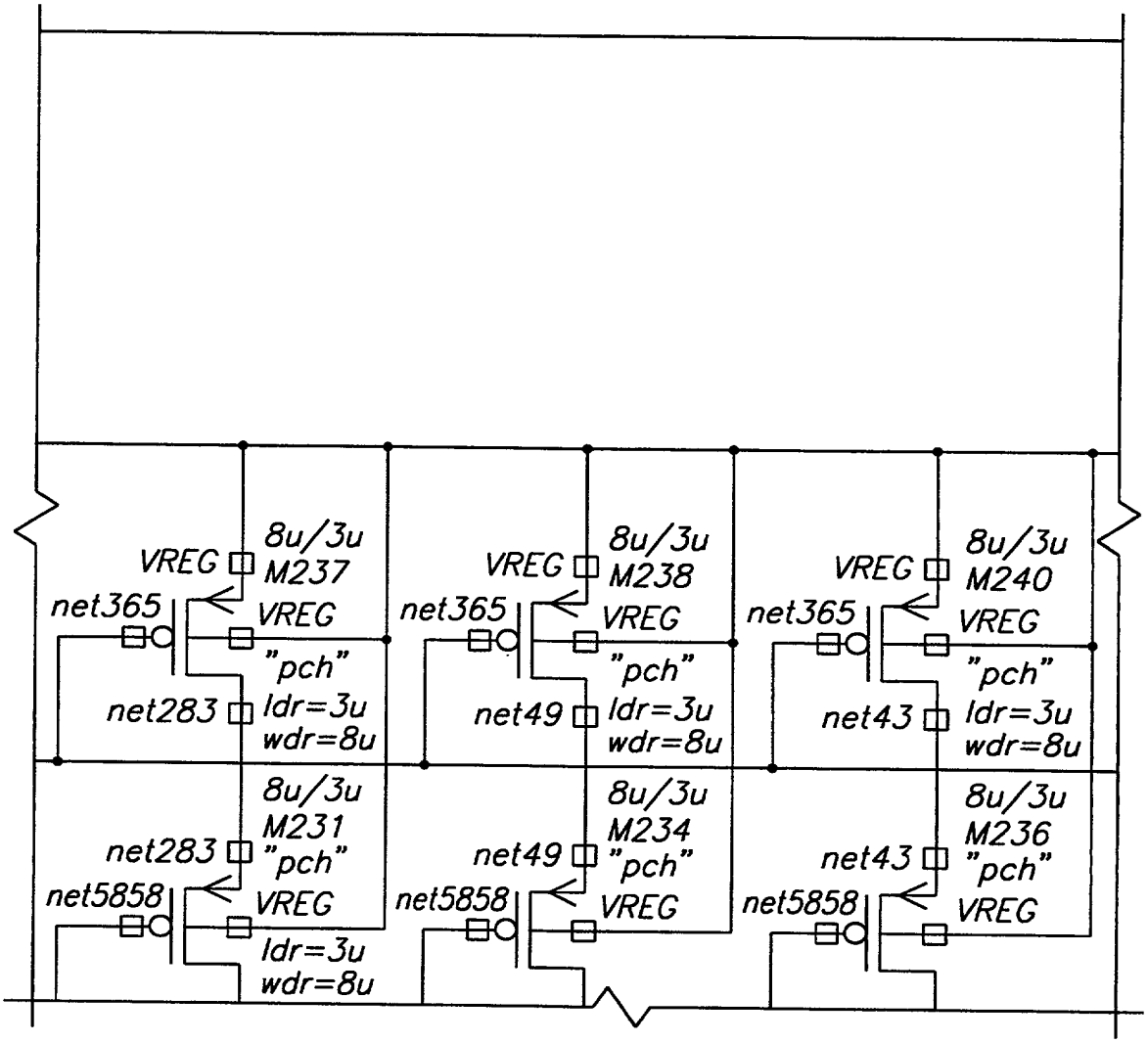

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M237
VREG
net365
VREG
"pch"
net283
ldr=3u
wdr=8u
8u/3u
M238
VREG
net365
VREG
"pch"
net49
ldr=3u
wdr=8u
8u/3u
M240
VREG
net365
VREG
"pch"
net43
ldr=3u
wdr=8u
8u/3u
M231
net283
"pch"
net5858
VREG
ldr=3u
wdr=8u
8u/3u
M234
net49
"pch"
net5858
VREG
8u/3u
M236
net43
"pch"
net5858
VREG

Fig 8.0107AL

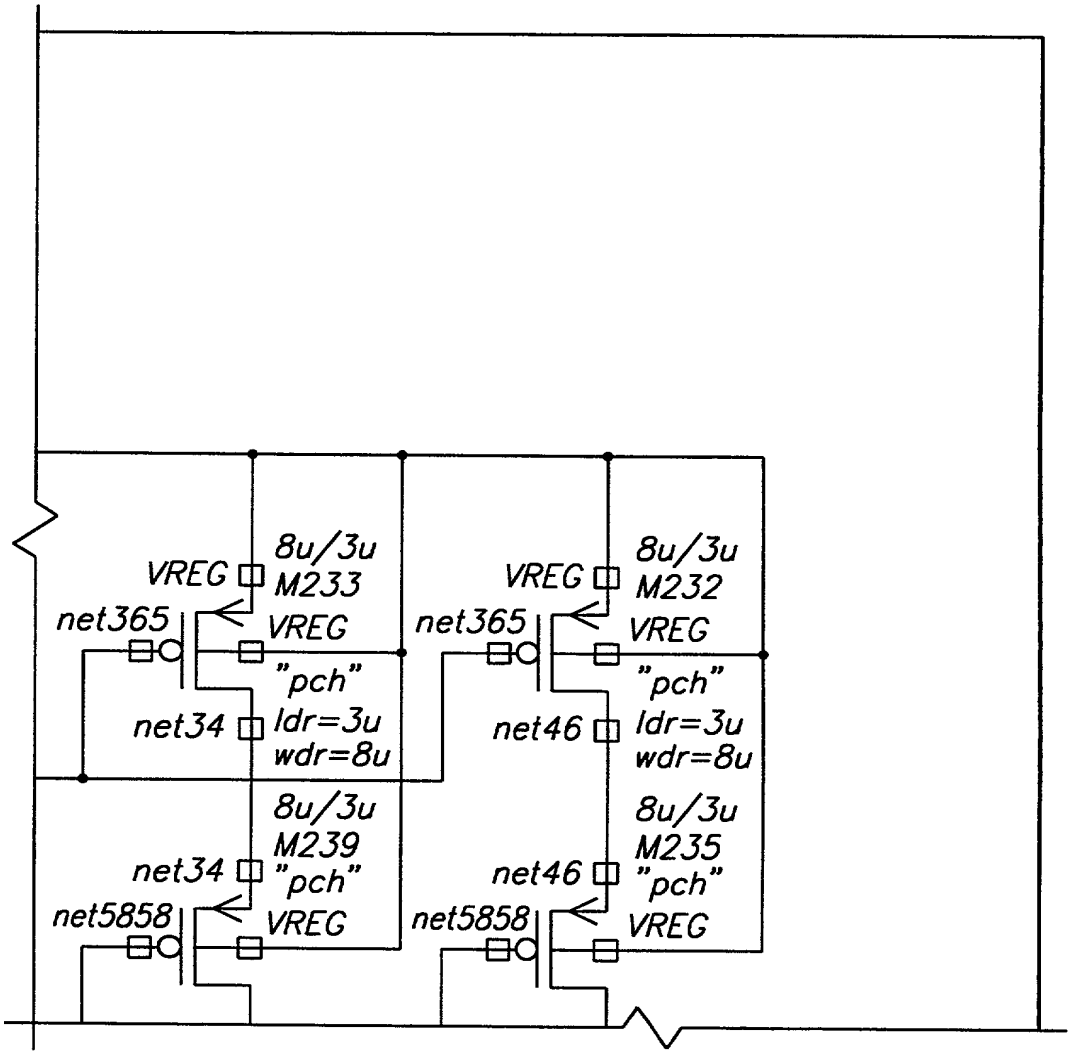
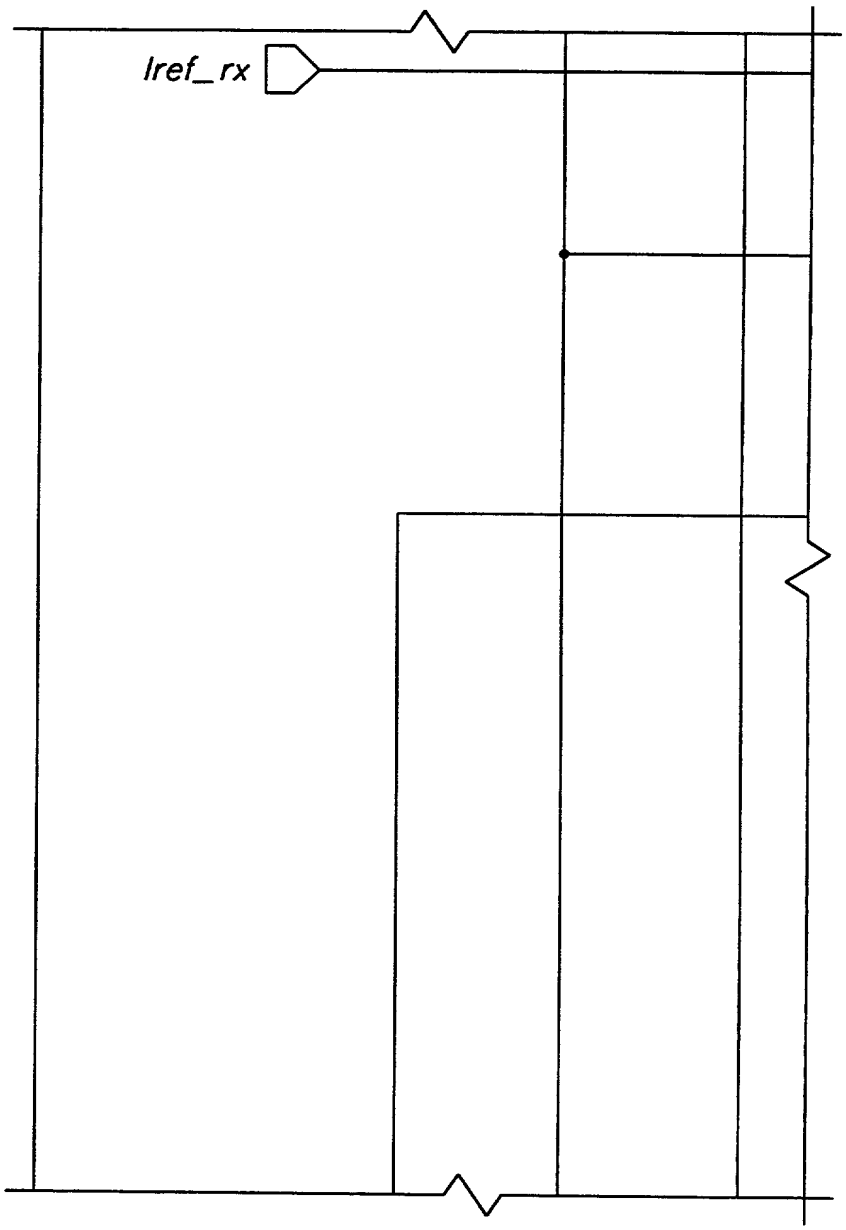


Fig 8.0107AM

09/22/2005 15:54:59



Лл 8.0107ВА

Копия документа - 05.11.07

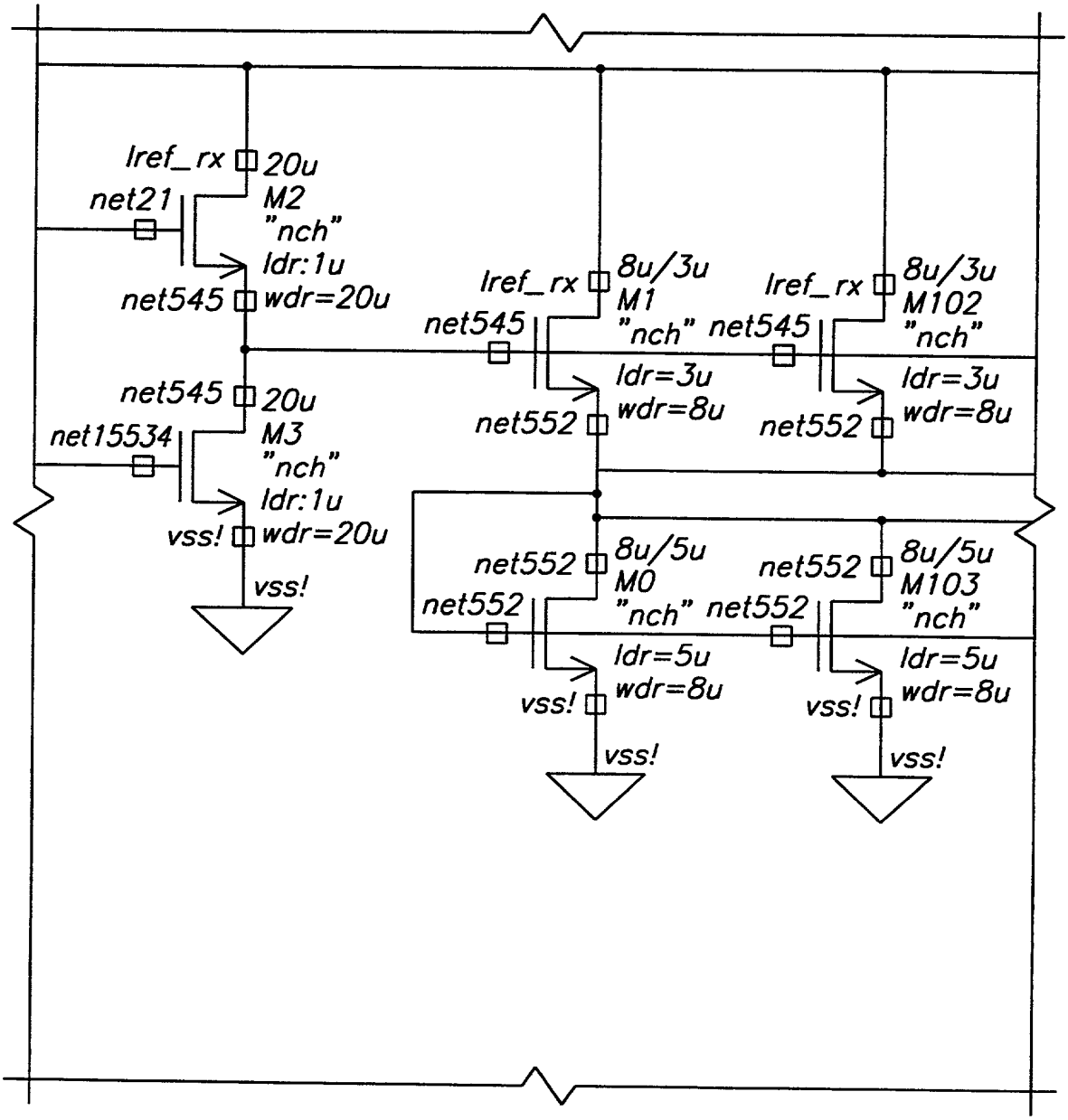


Fig 8.0110188

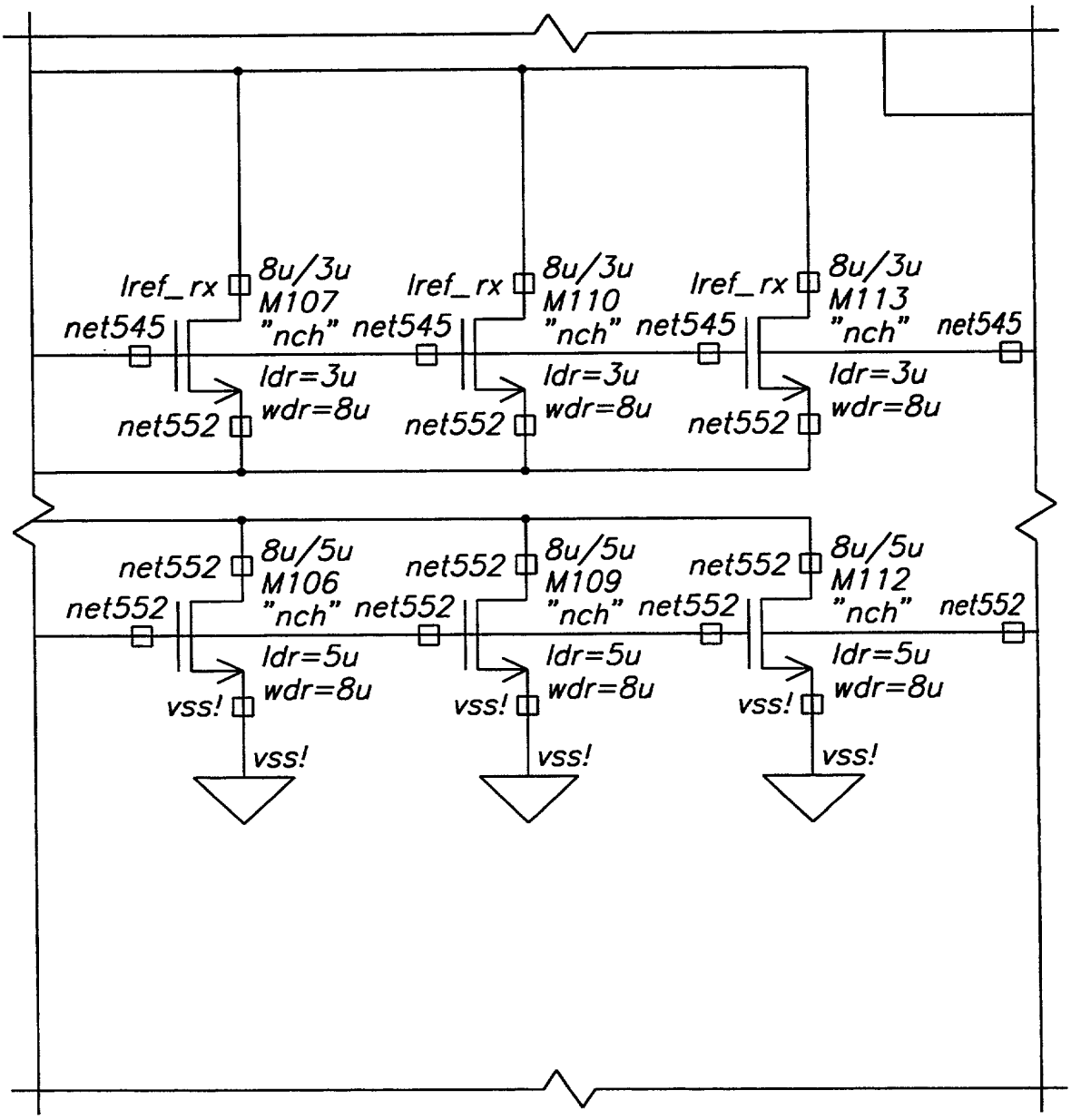


Fig 8.0110.1BC

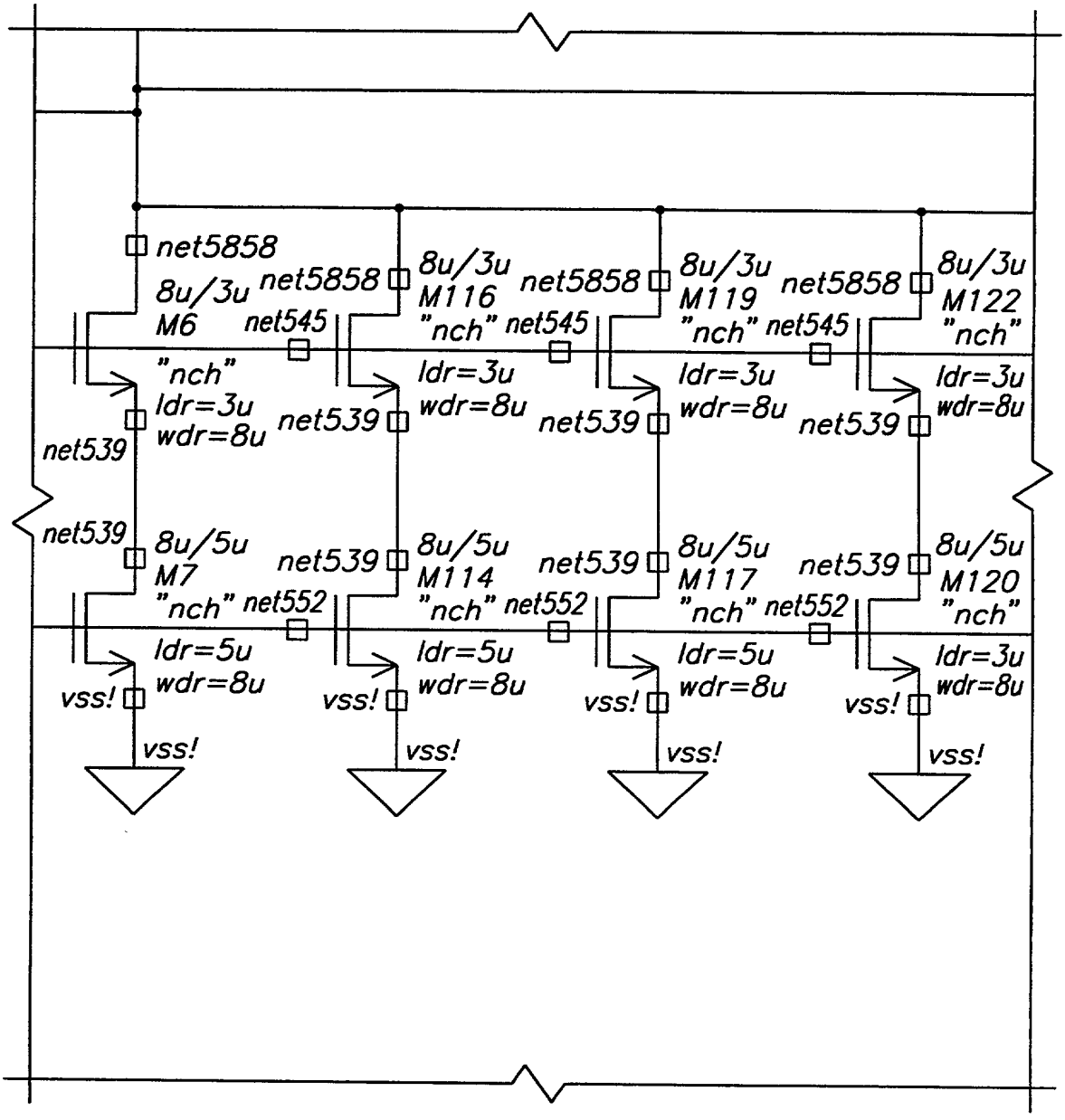


Fig 8.0110180

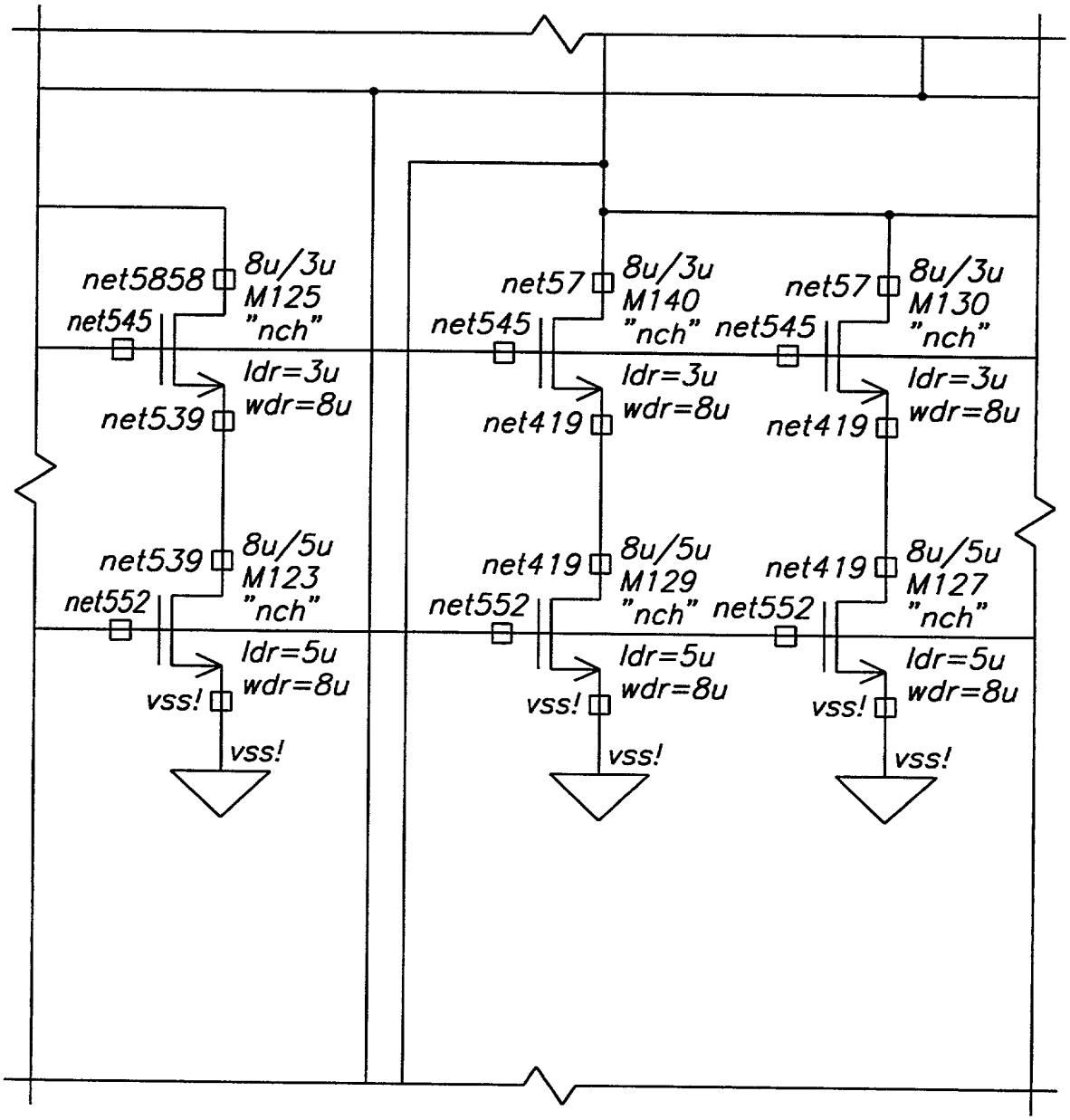

net5858
8u/3u
M125
"nch"
net545
ldr=3u
wdr=8u
net539
net539
8u/5u
M123
"nch"
net552
ldr=5u
wdr=8u
vss!
vss!
net57
8u/3u
M140
"nch"
net545
ldr=3u
wdr=8u
net419
net419
8u/5u
M129
"nch"
net552
ldr=5u
wdr=8u
vss!
vss!
net57
8u/3u
M130
"nch"
net545
ldr=3u
wdr=8u
net419
net419
8u/5u
M127
"nch"
net552
ldr=5u
wdr=8u
vss!
vss!

Fig 8.0107BE

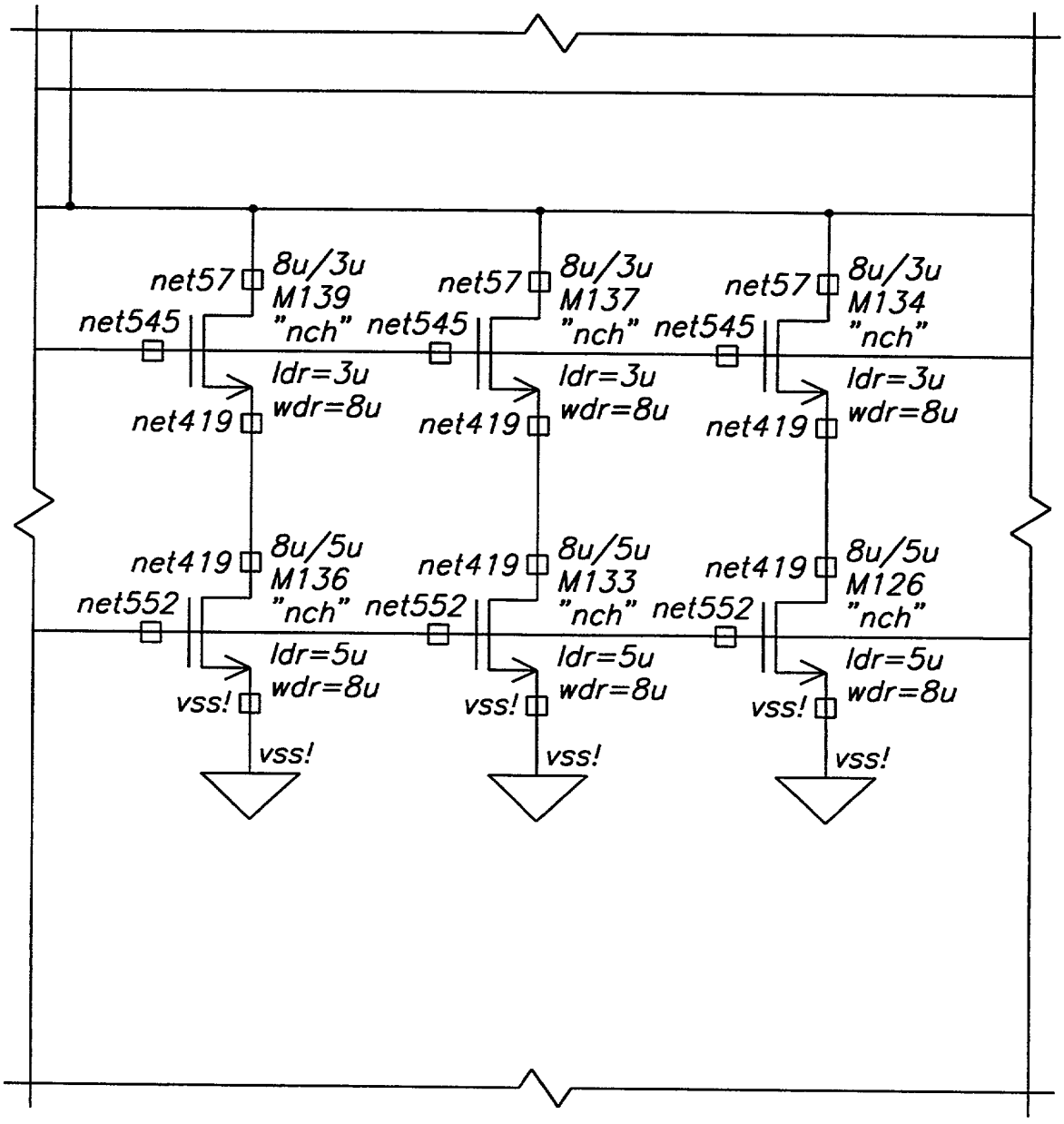

net57
8u/3u
M139
"nch"
net545
ldr=3u
wdr=8u
net419
net57
8u/3u
M137
"nch"
net545
ldr=3u
wdr=8u
net419
net57
8u/3u
M134
"nch"
net545
ldr=3u
wdr=8u
net419
net419
8u/5u
M136
"nch"
net552
ldr=5u
wdr=8u
vss!
vss!
net419
8u/5u
M133
"nch"
net552
ldr=5u
wdr=8u
vss!
vss!
net419
8u/5u
M126
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net552
ldr=5u
wdr=8u
vss!
vss!

Fig 8.0107BF

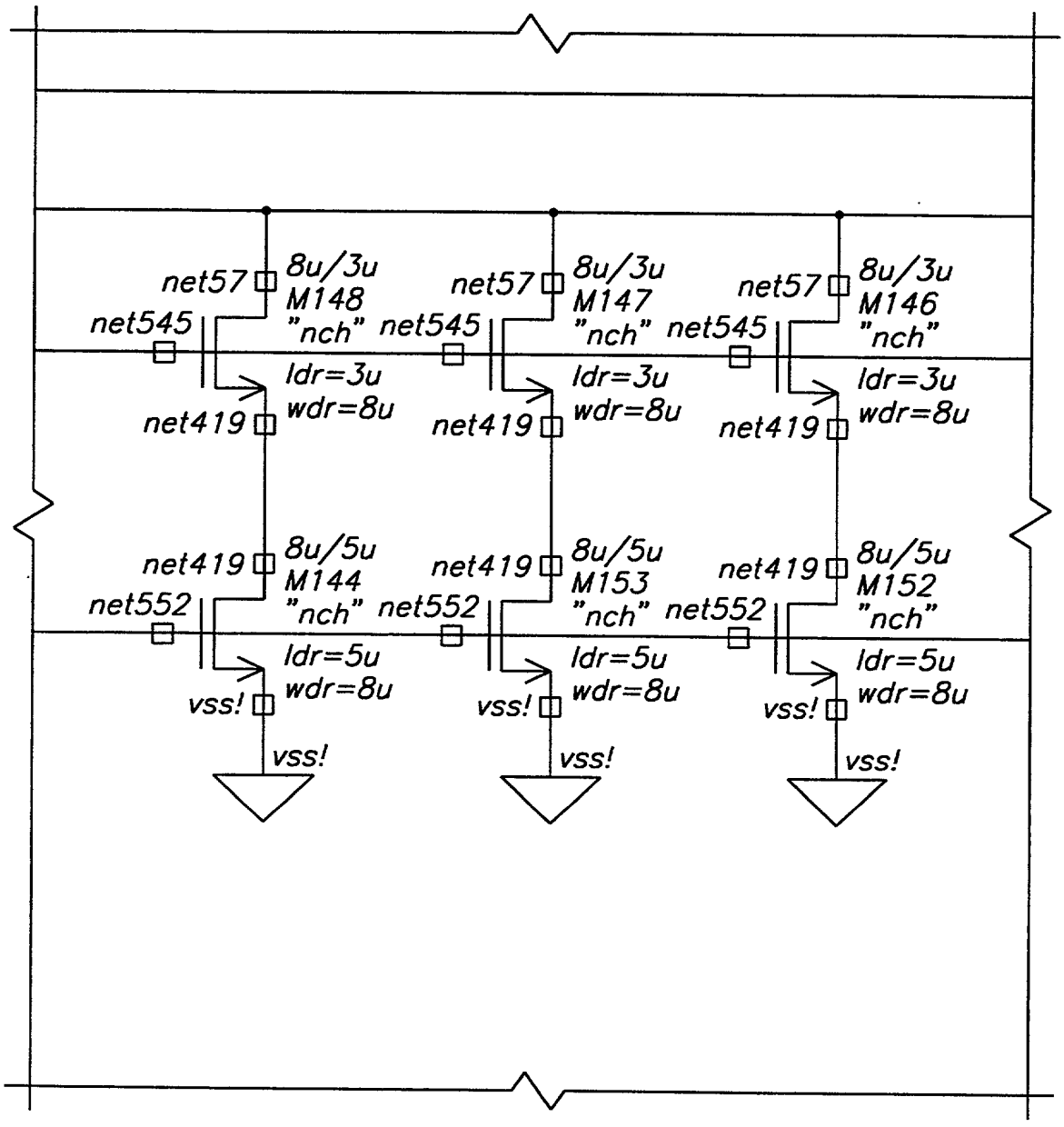


Fig 8.0110186

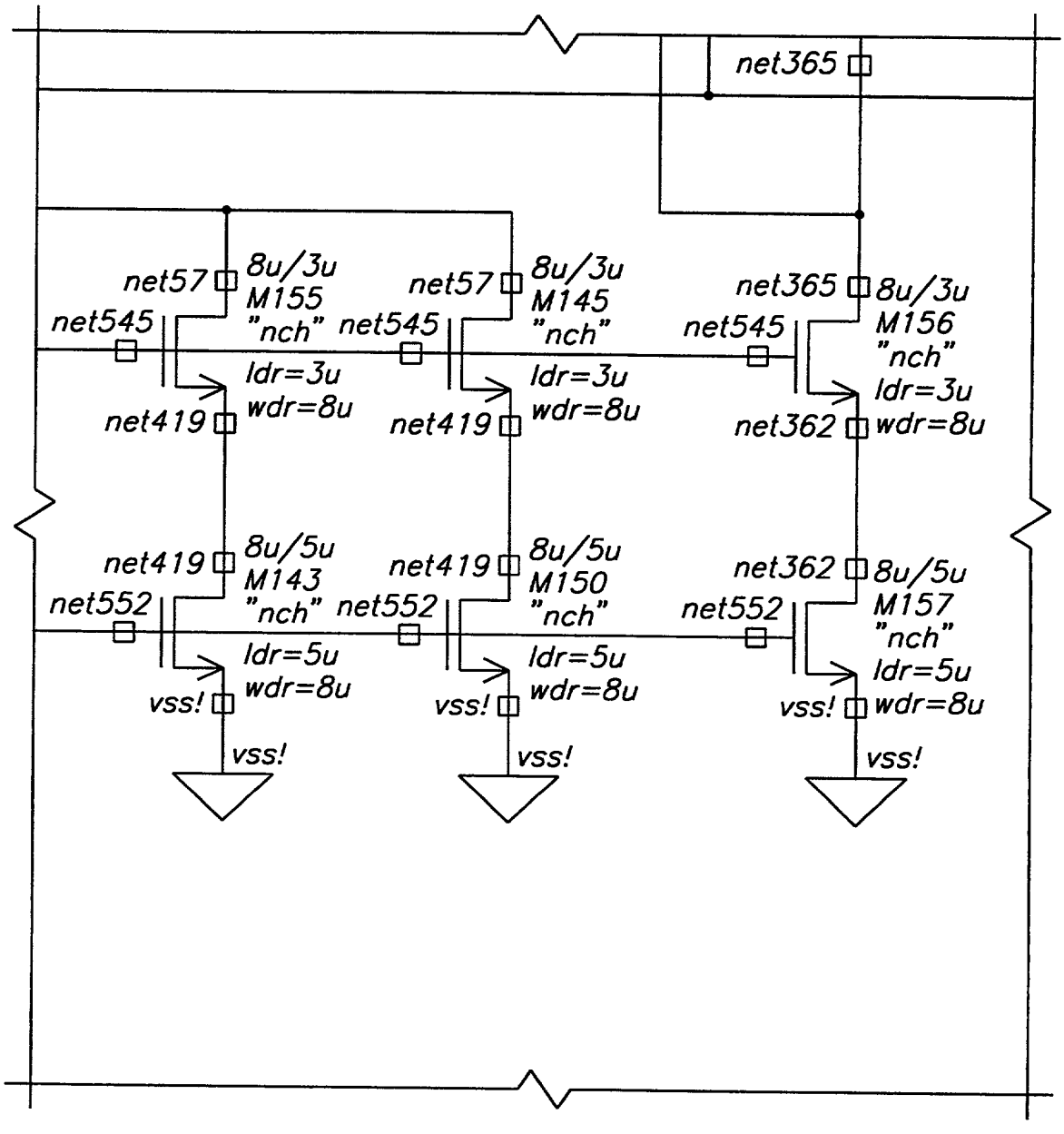
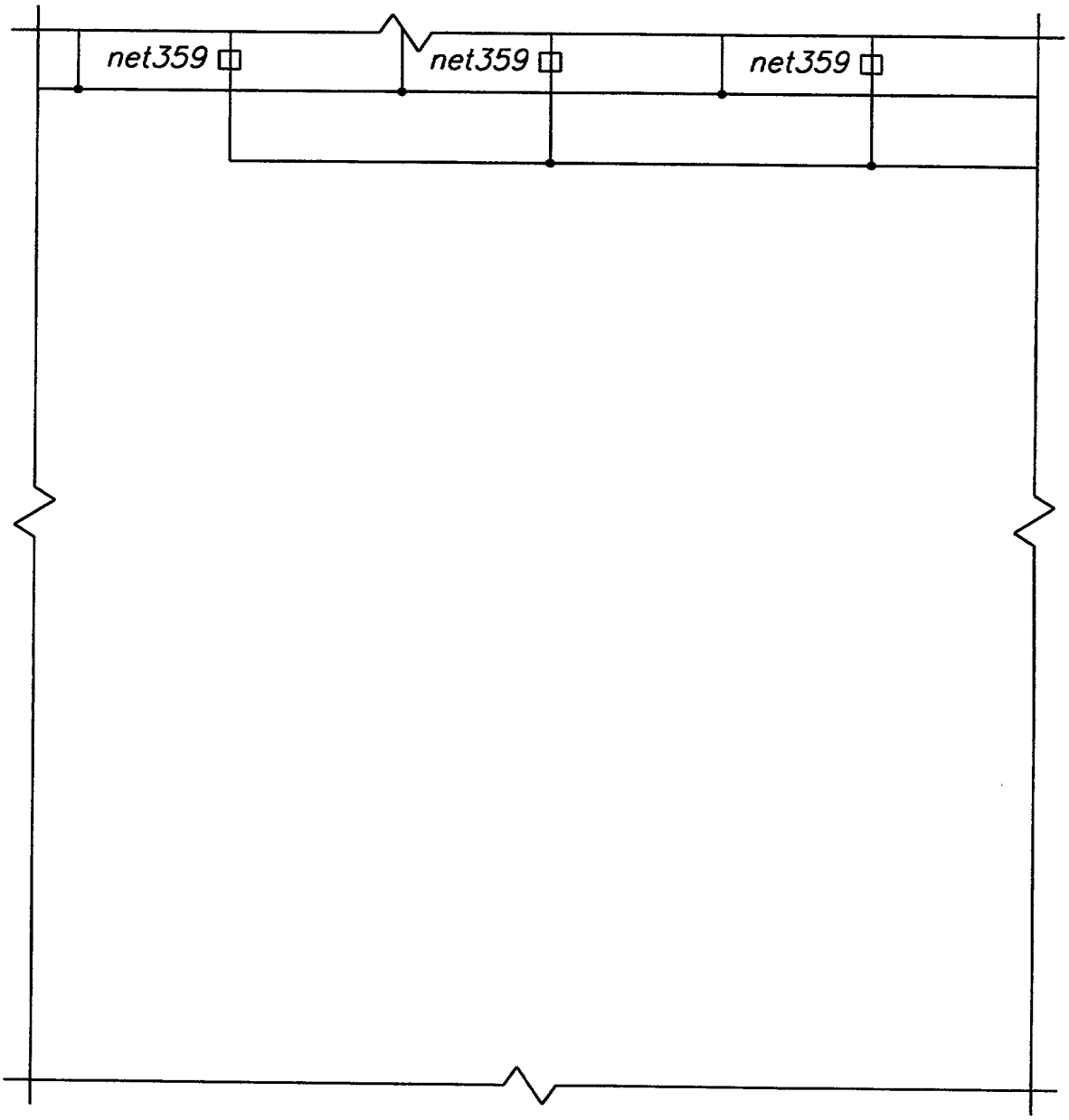


Fig 8.0110 1BH



Фиг 8.0110181

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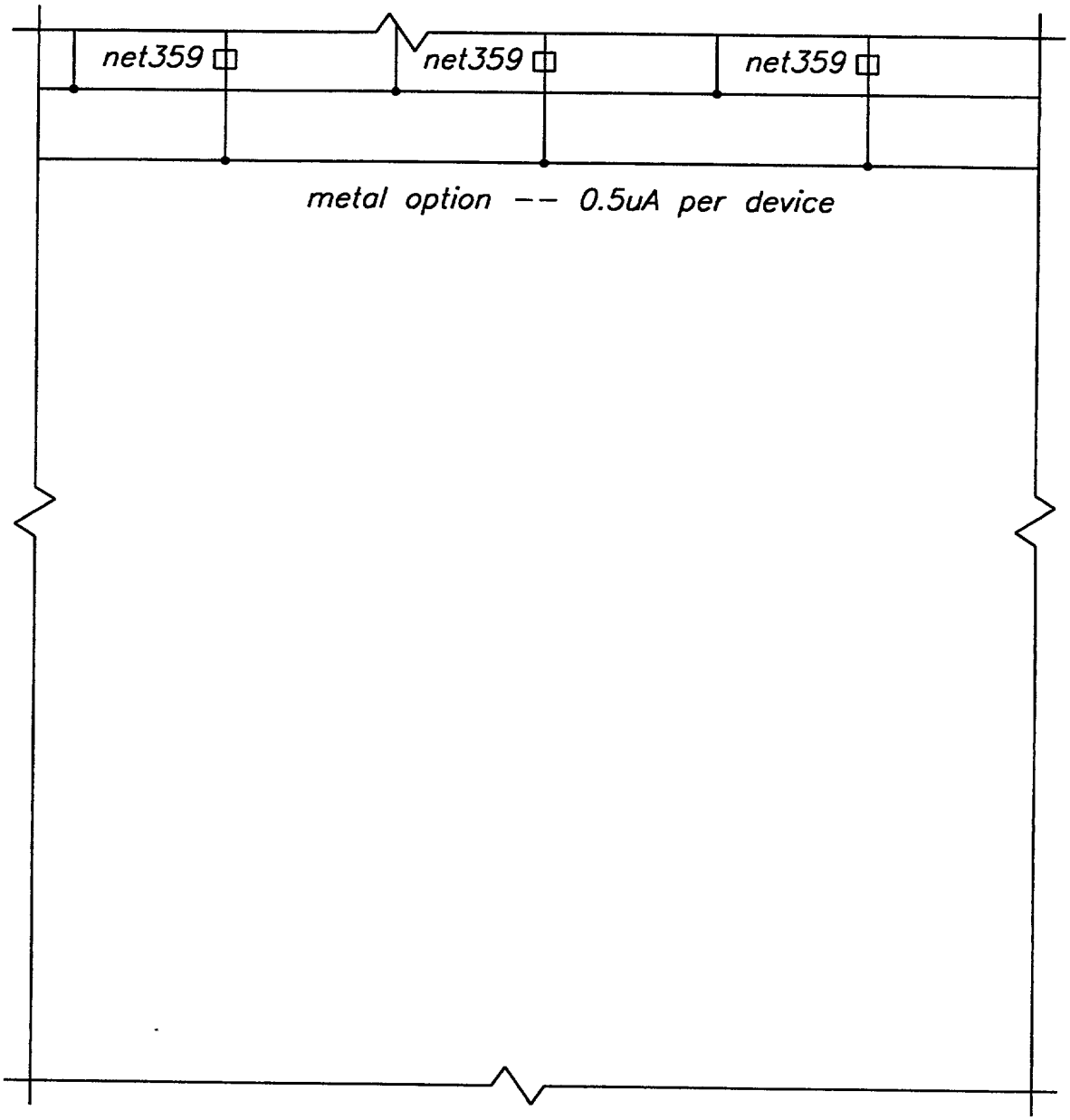
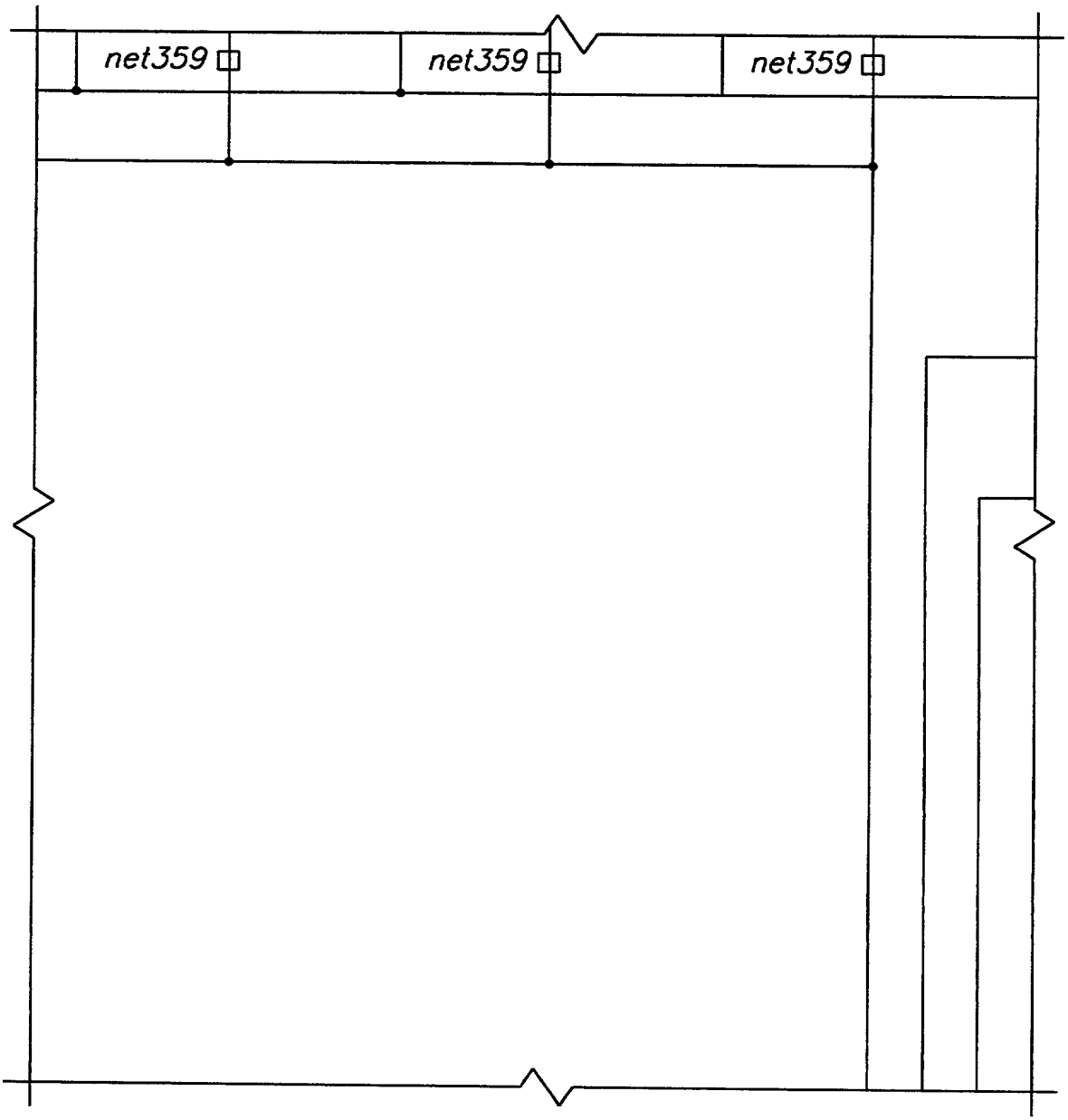


Fig 8.0107Bd

Confidential - Qualcomm



Лд 8.0107ВК

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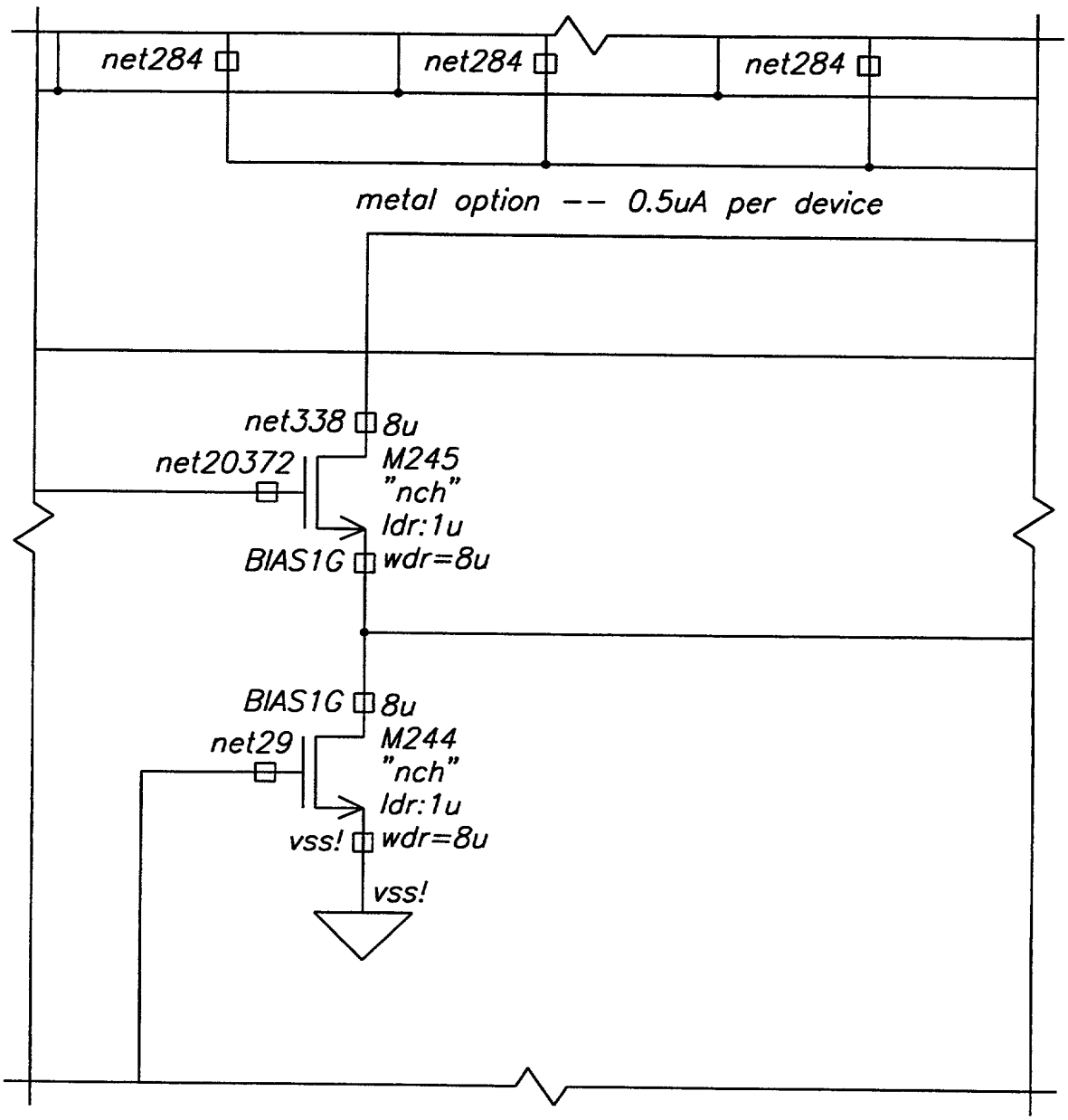

net284
net284
net284
metal option -- 0.5uA per device
net338
8u
net20372
M245
"nch"
ldr:1u
BIAS1G
wdr=8u
BIAS1G
8u
net29
M244
"nch"
ldr:1u
vss!
wdr=8u
vss!

Fig 8.0107BL

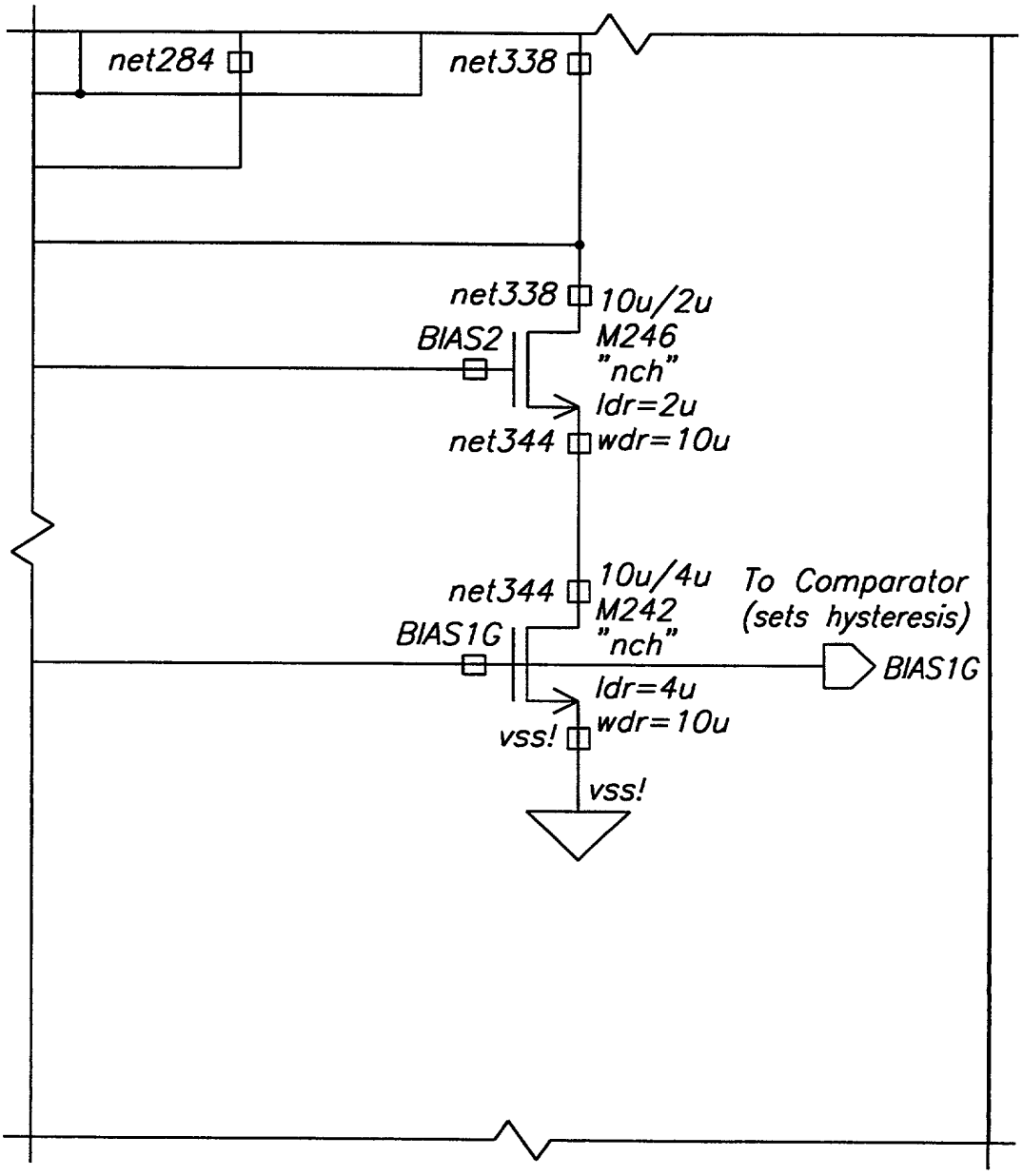

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net338
net338
10u/2u
M246
"nch"
ldr=2u
wdr=10u
BIAS2
net344
net344
10u/4u
M242
"nch"
ldr=4u
wdr=10u
BIAS1G
To Comparator
(sets hysteresis)
BIAS1G
vss!
vss!

Fig 8.0107BM

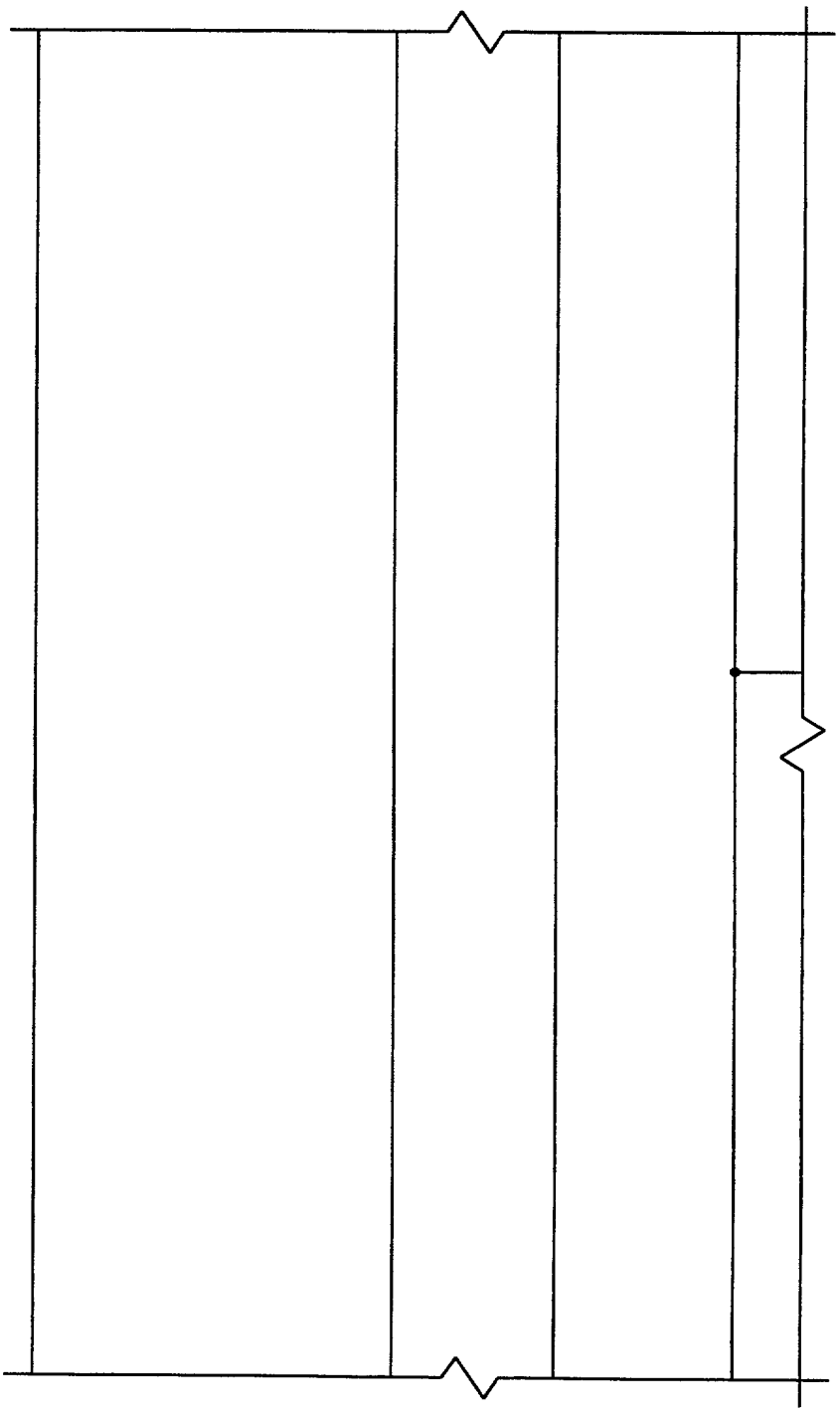
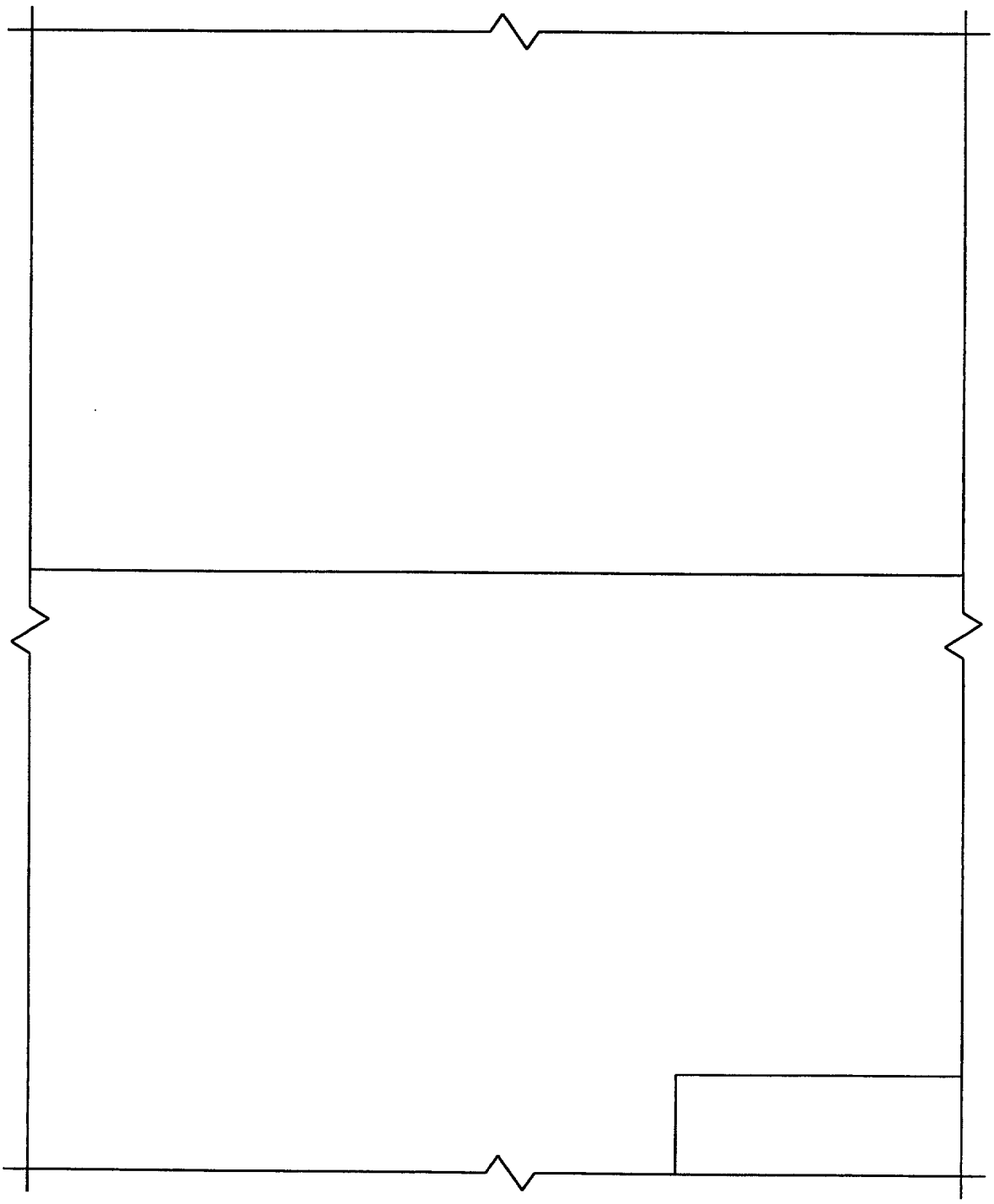


Fig 8.0107CA

US6256954B1



Фиг. 8.0107СВ

95825665.1

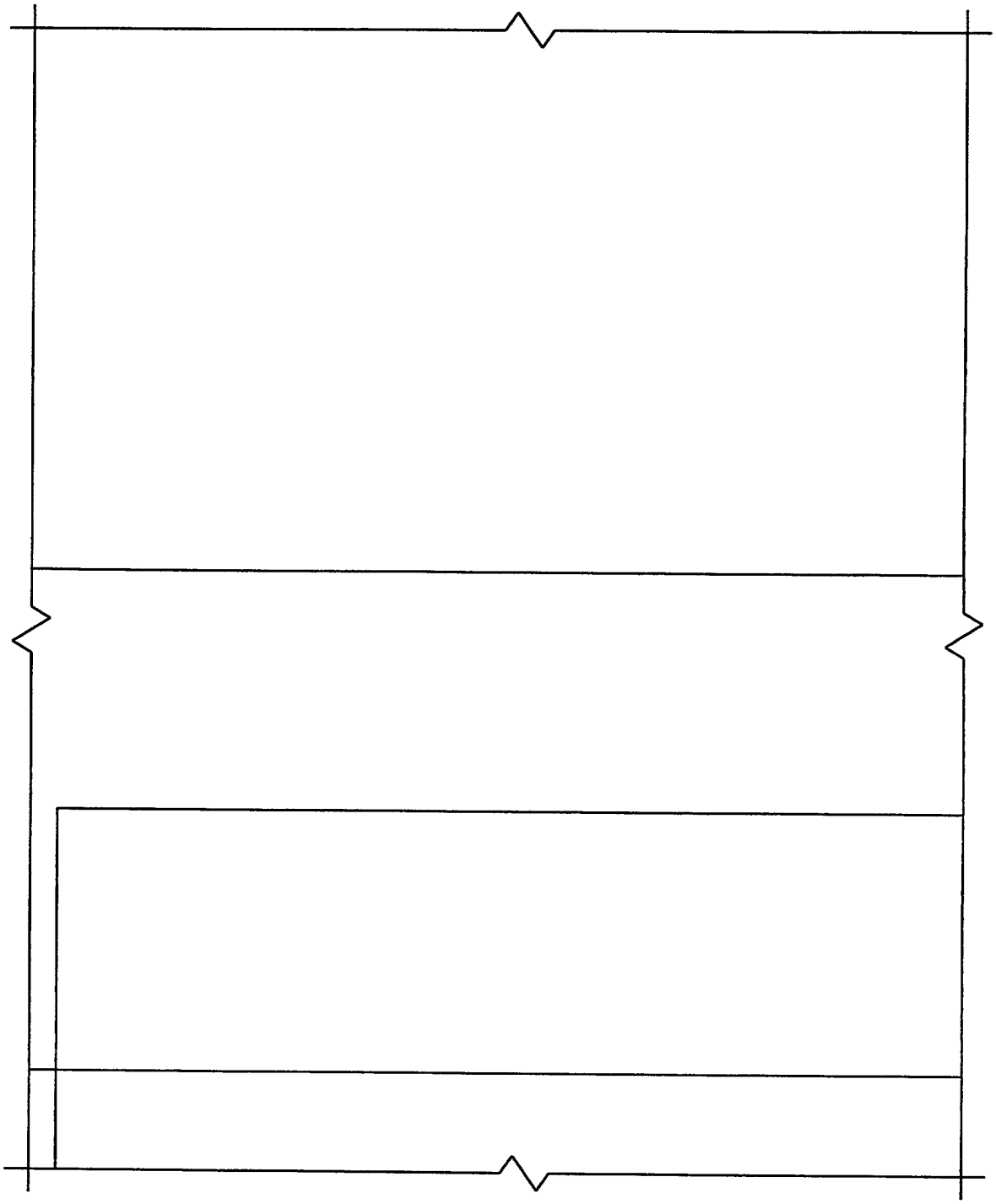


Fig 8.0107CC

US6564805

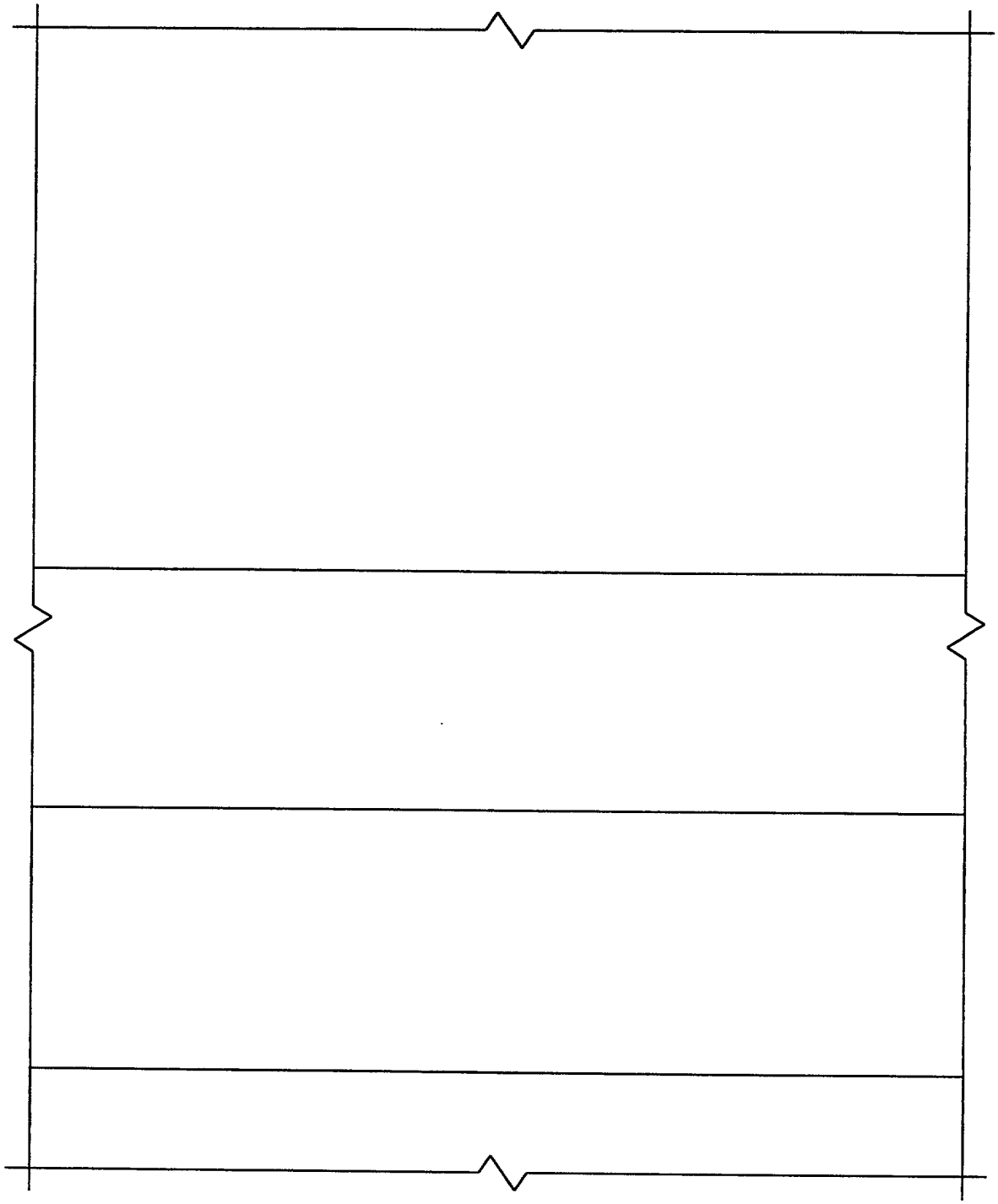


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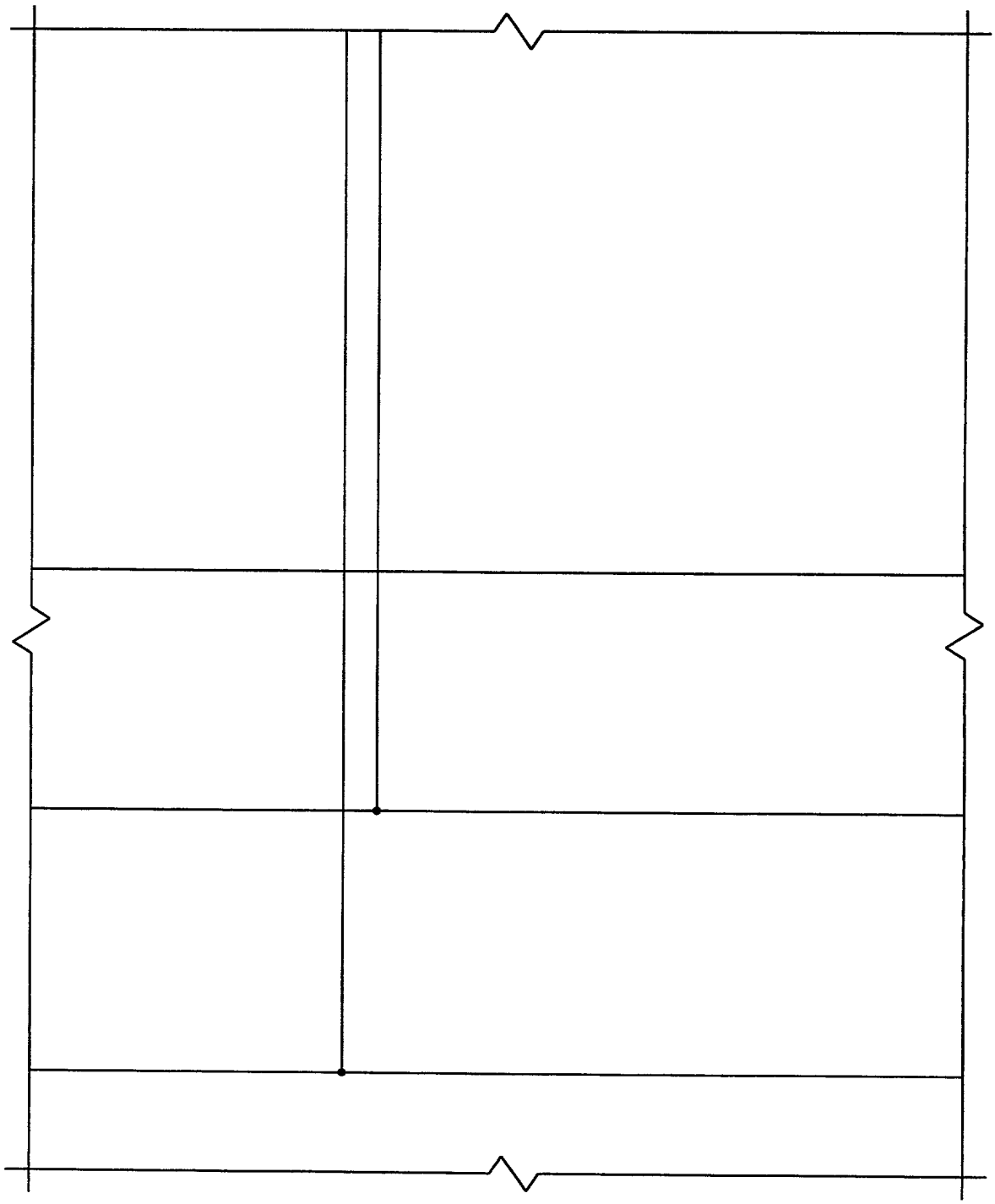


Fig 8.0107E

D5822659 - 05/11/05

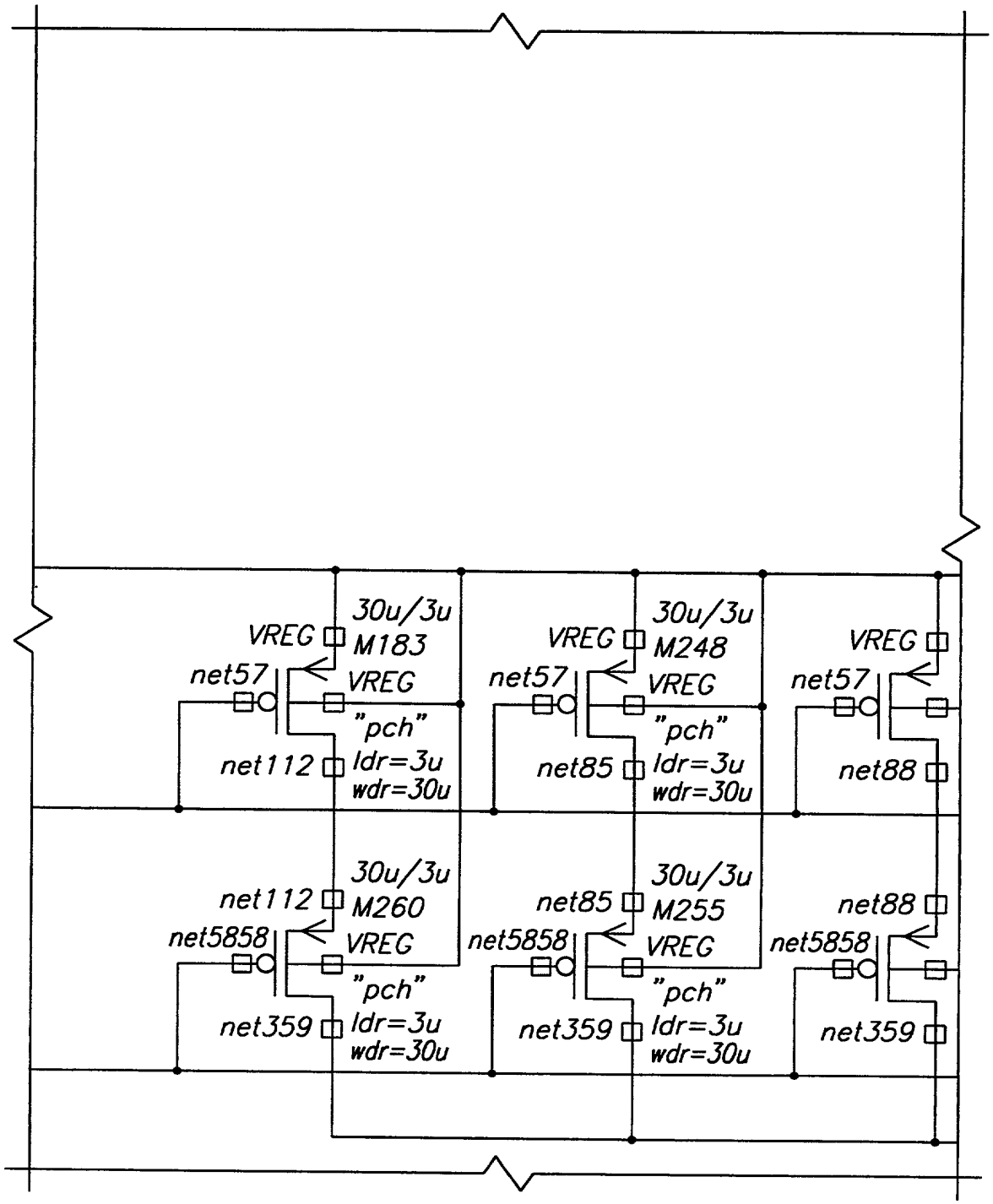

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net57
VREG
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net112
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VREG
M248
net57
VREG
"pch"
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ldr=3u
wdr=30u
VREG
net57
net88
30u/3u
net112
M260
net5858
VREG
"pch"
net359
ldr=3u
wdr=30u
30u/3u
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Fig 8.0110F

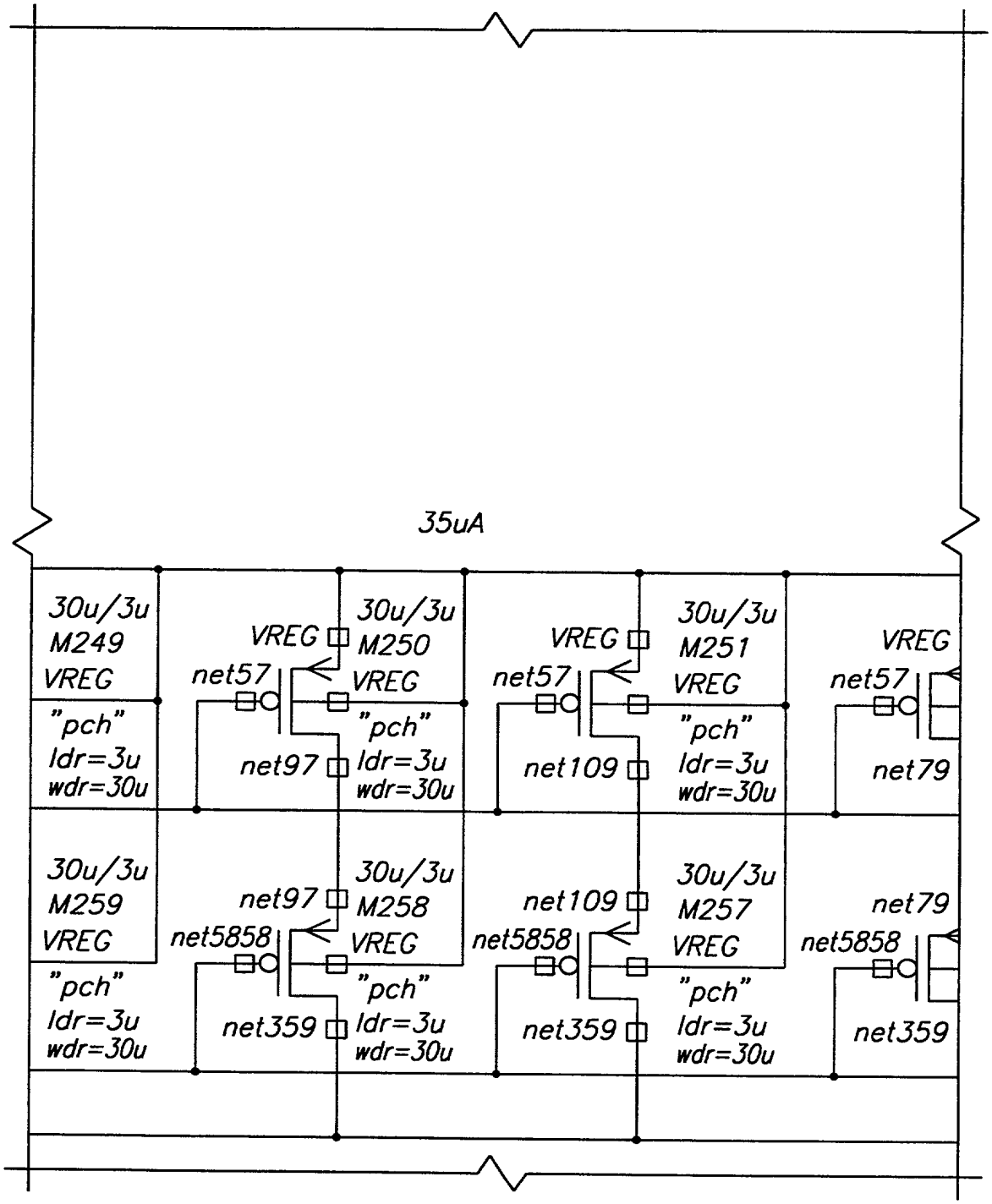
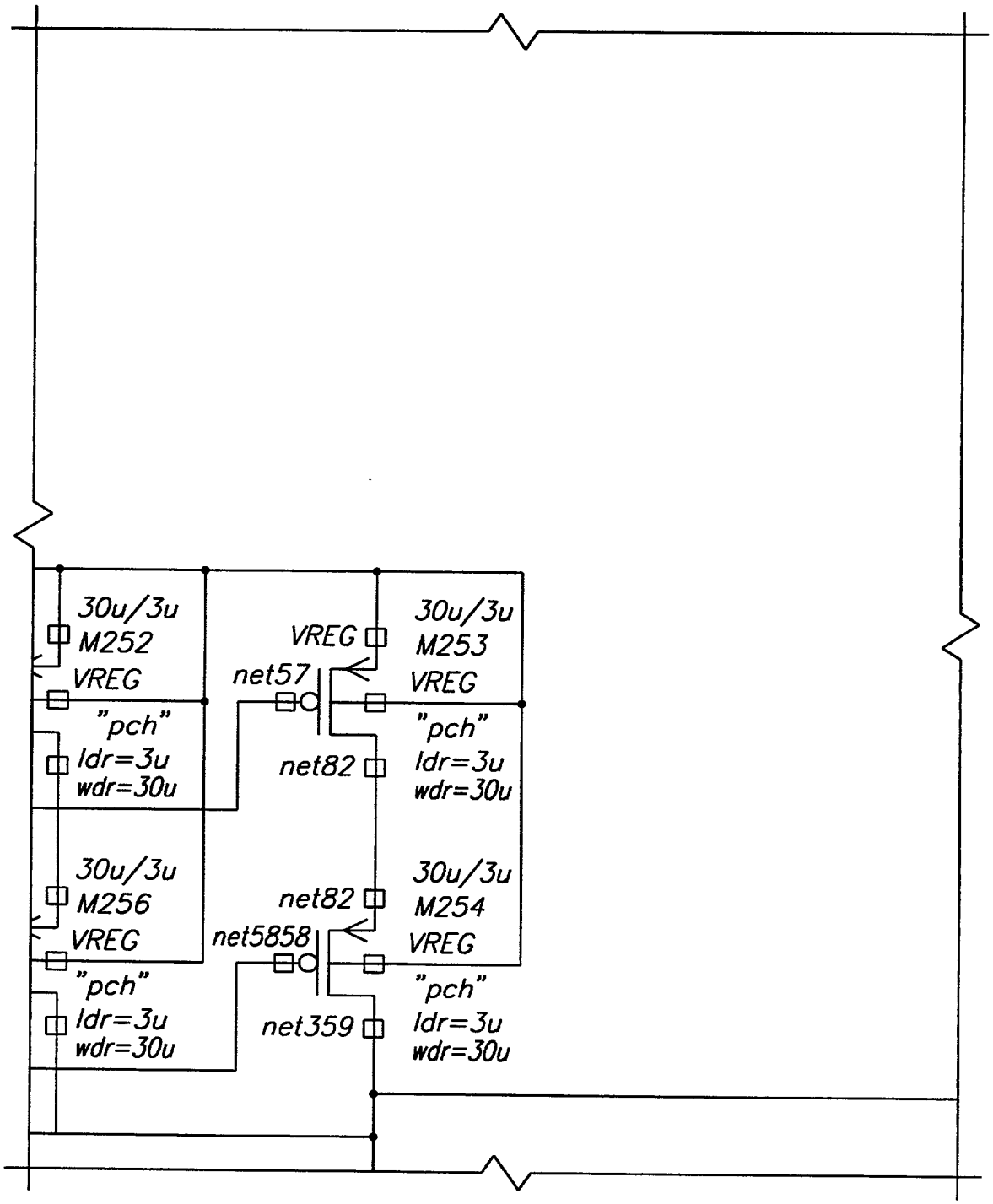


Fig 8.0110116

US 6,252,263 B1



Фиг. 30

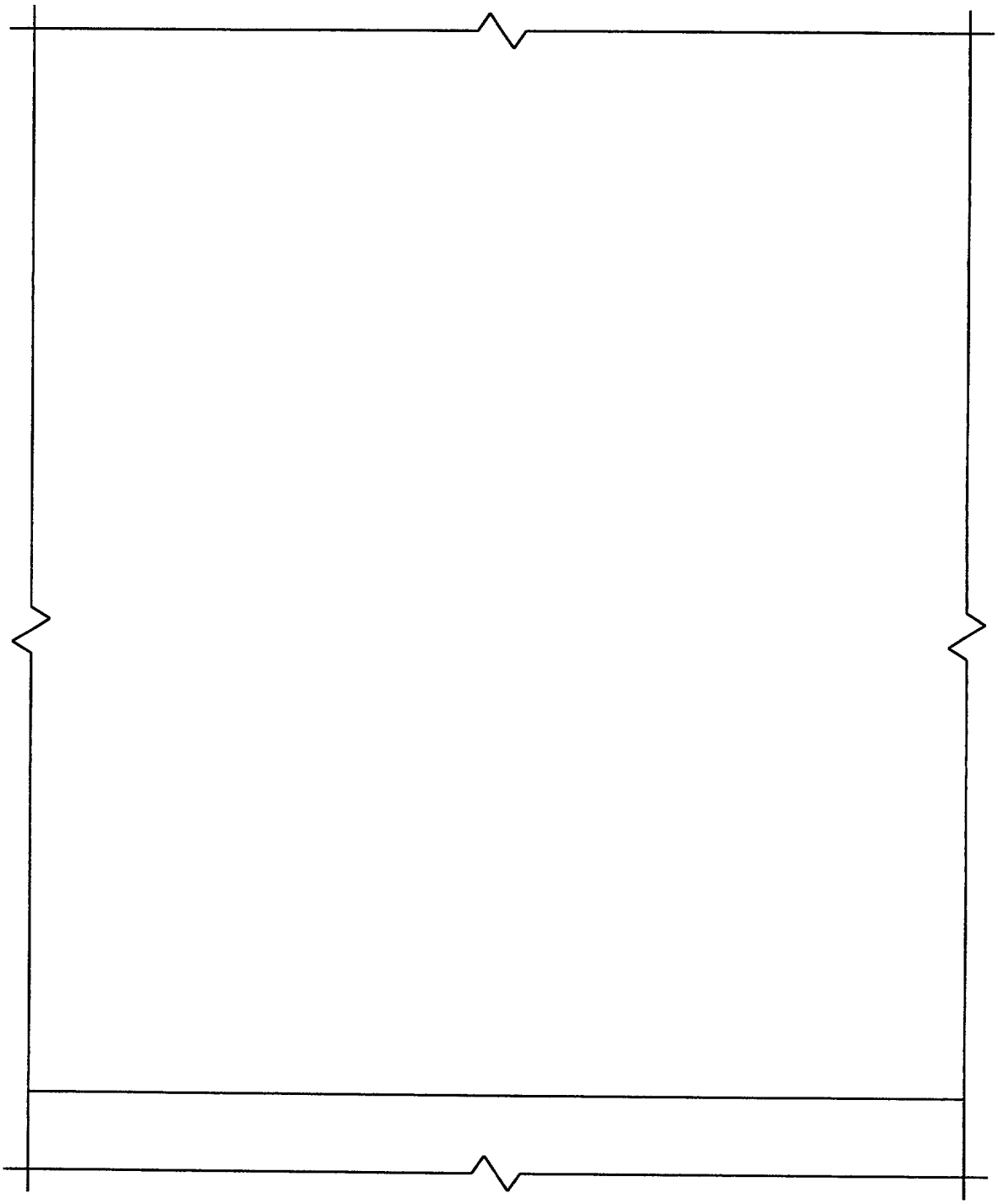


Fig 88.0100101

D6822668 - 06/4/05

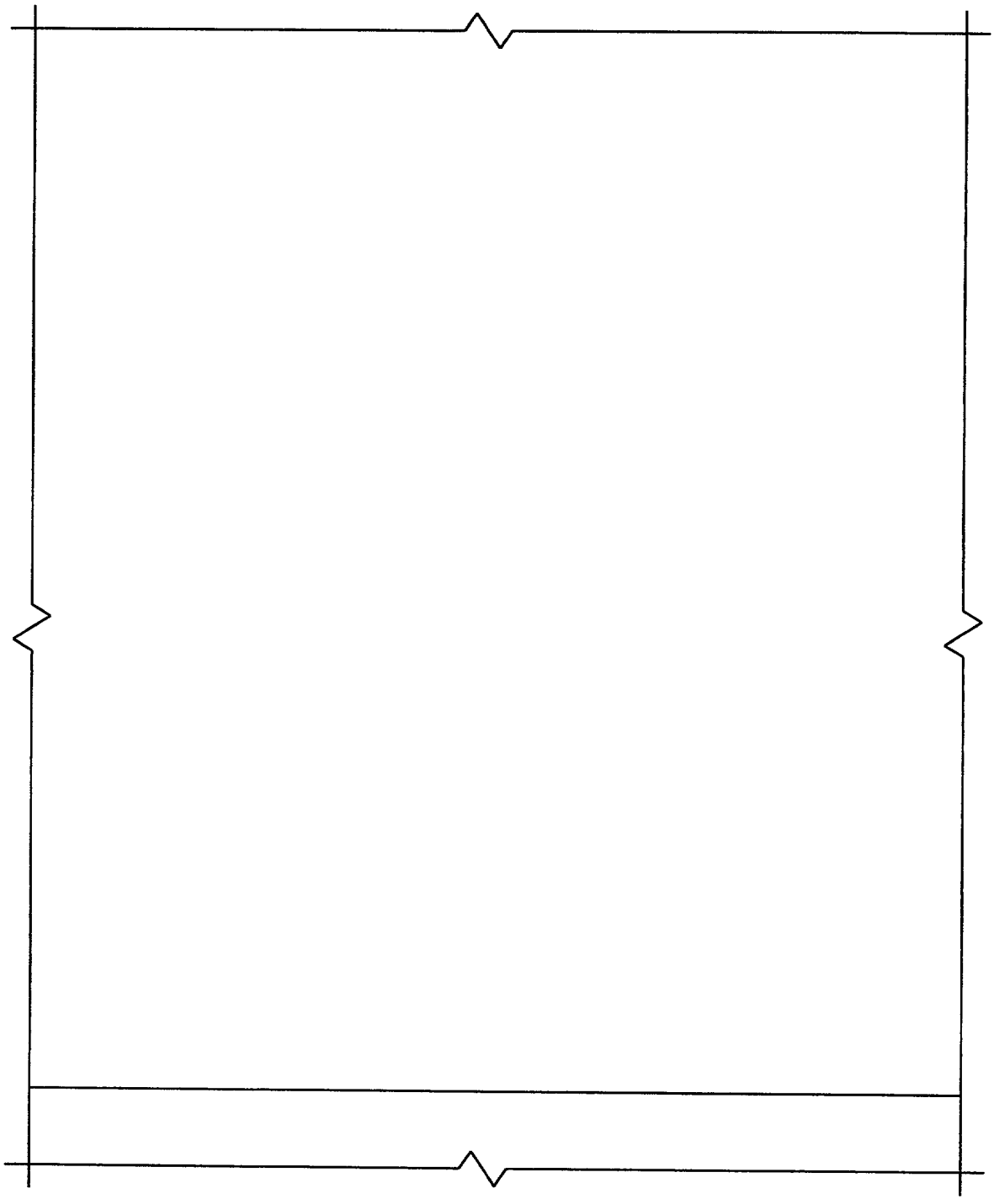


Fig 8.0107[illegible]

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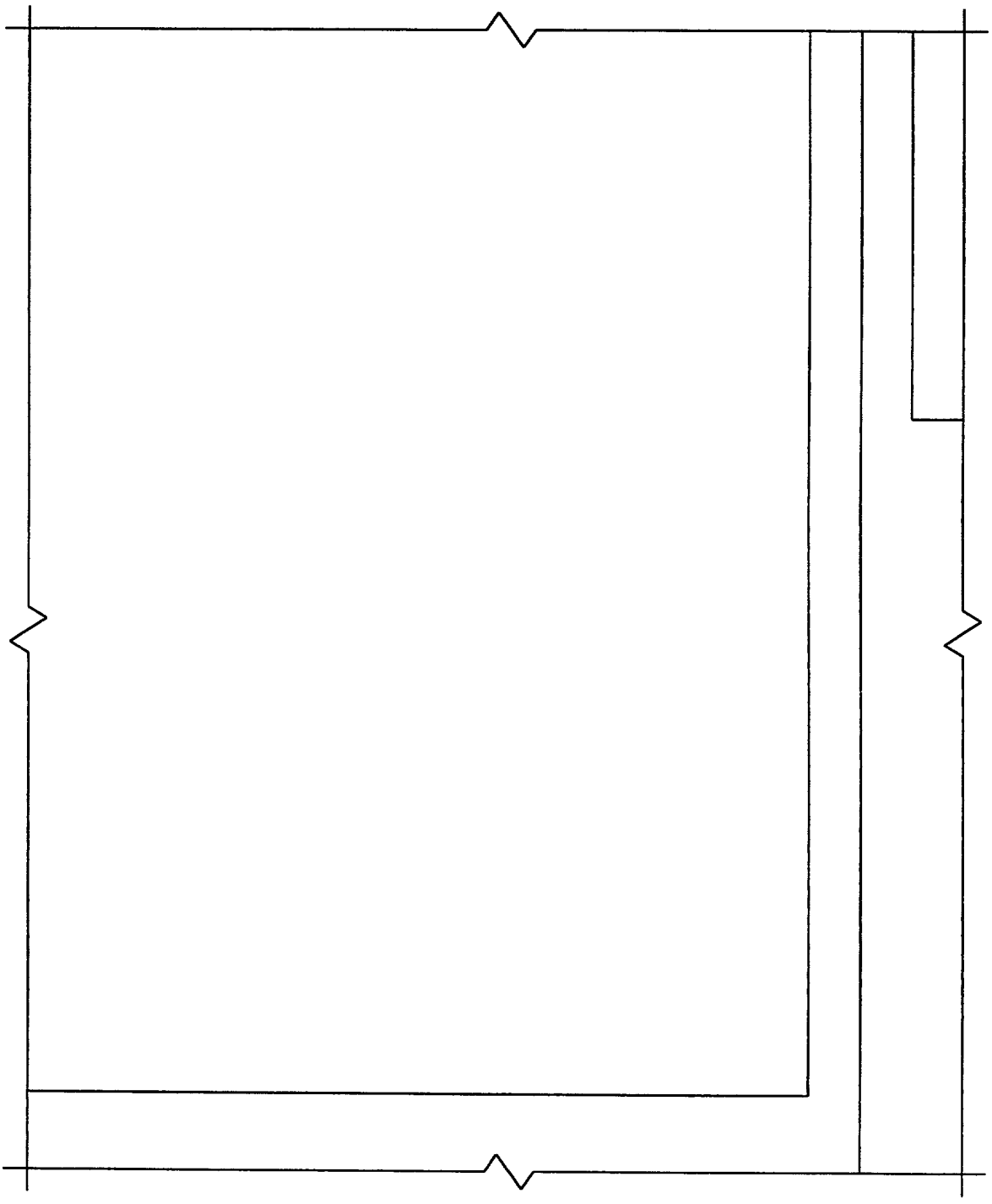
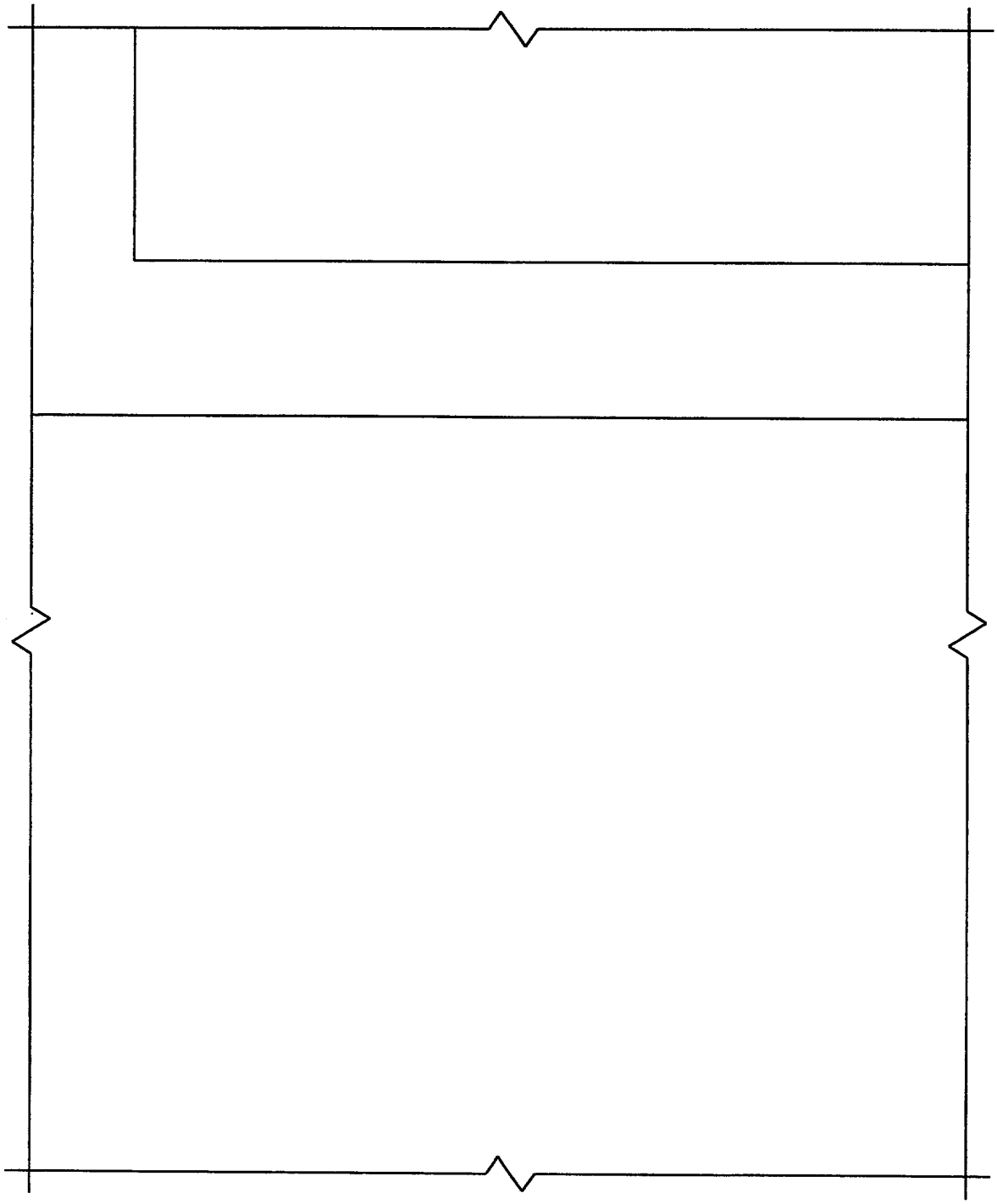


Fig 8.0107CK

US6256656 - 05/07/2001



Фиг 8.0107CL

09/25/2005 - 09:45:01

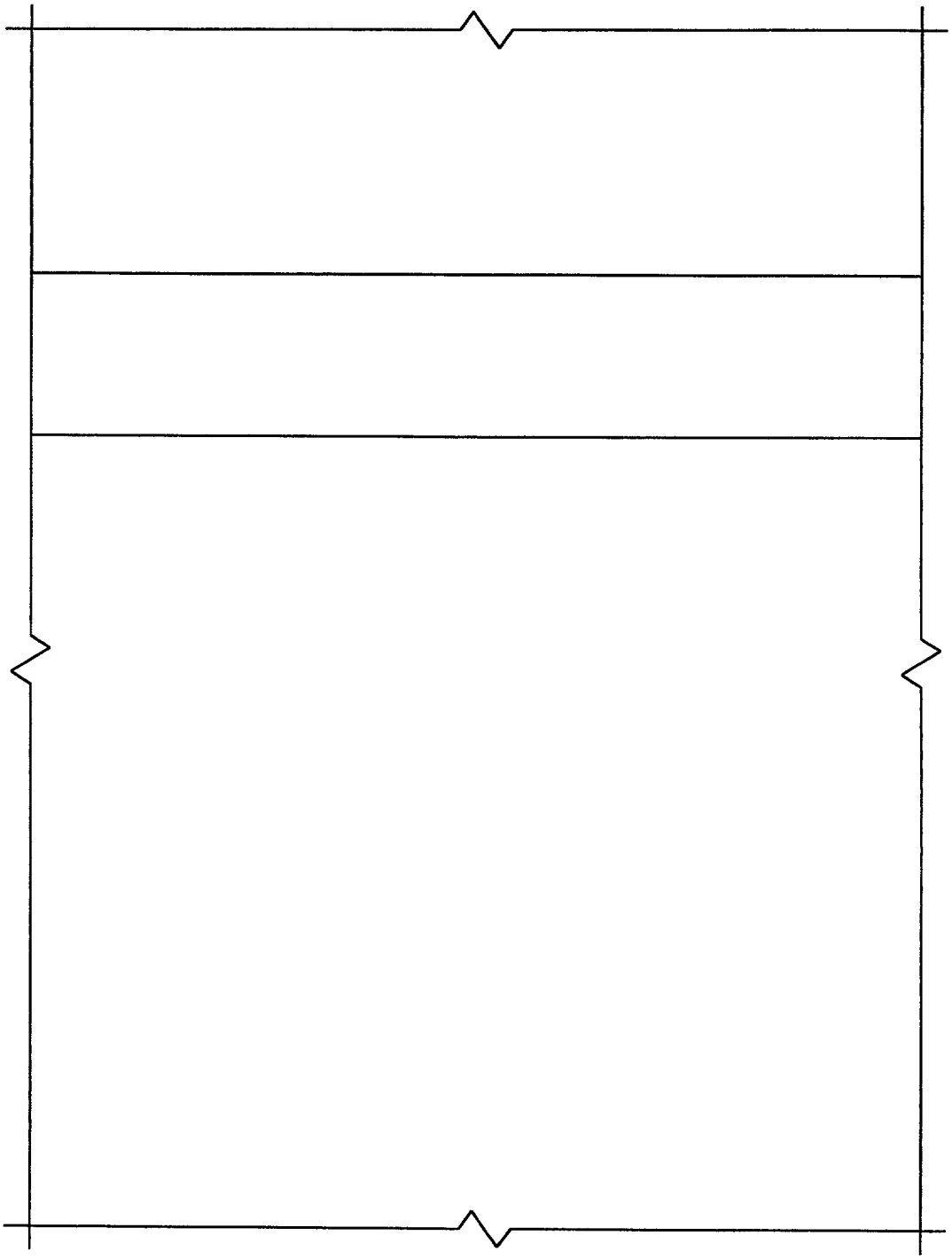


Рис. 8.0107СМ

0562265 - 05.04.01

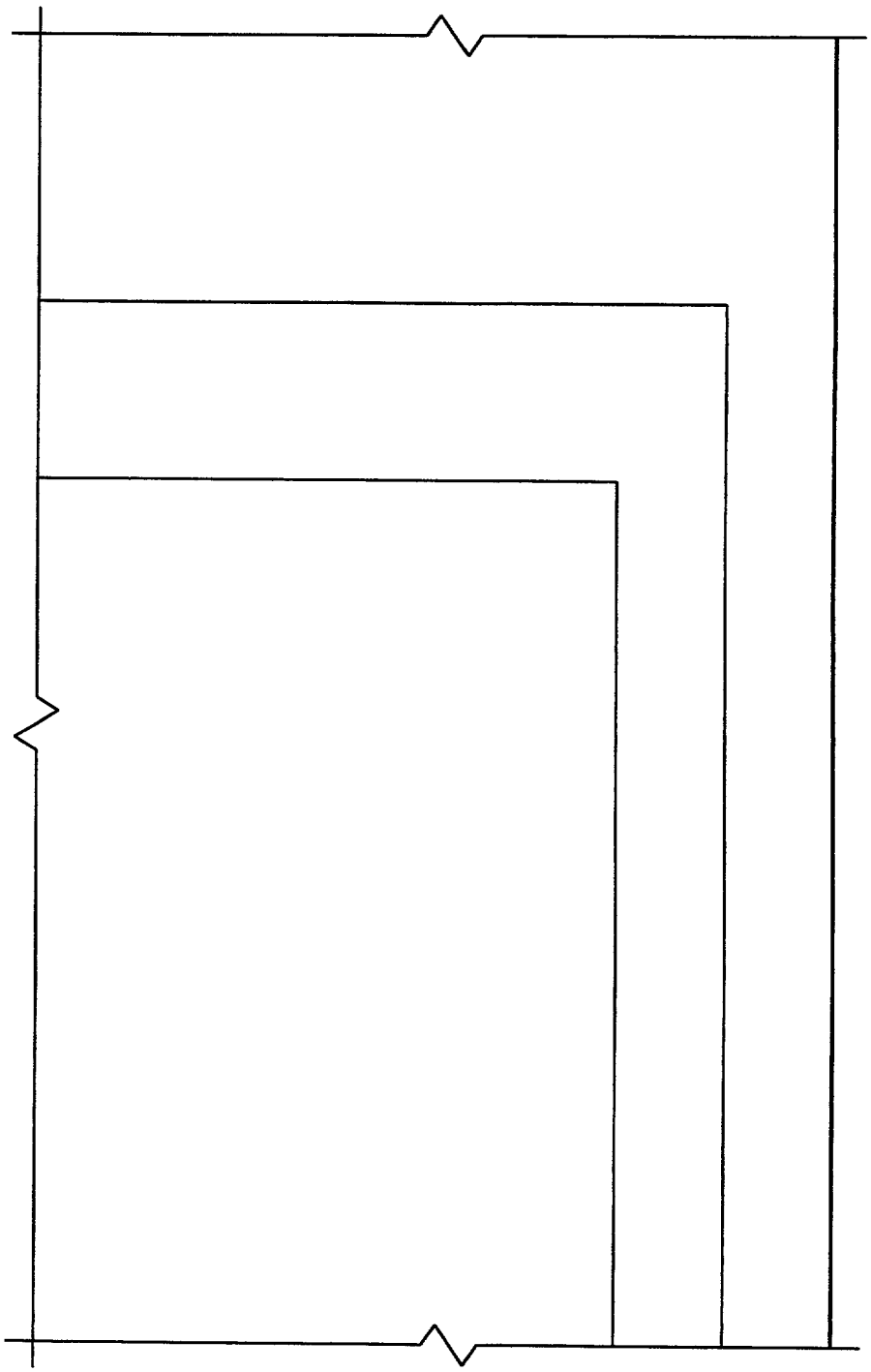
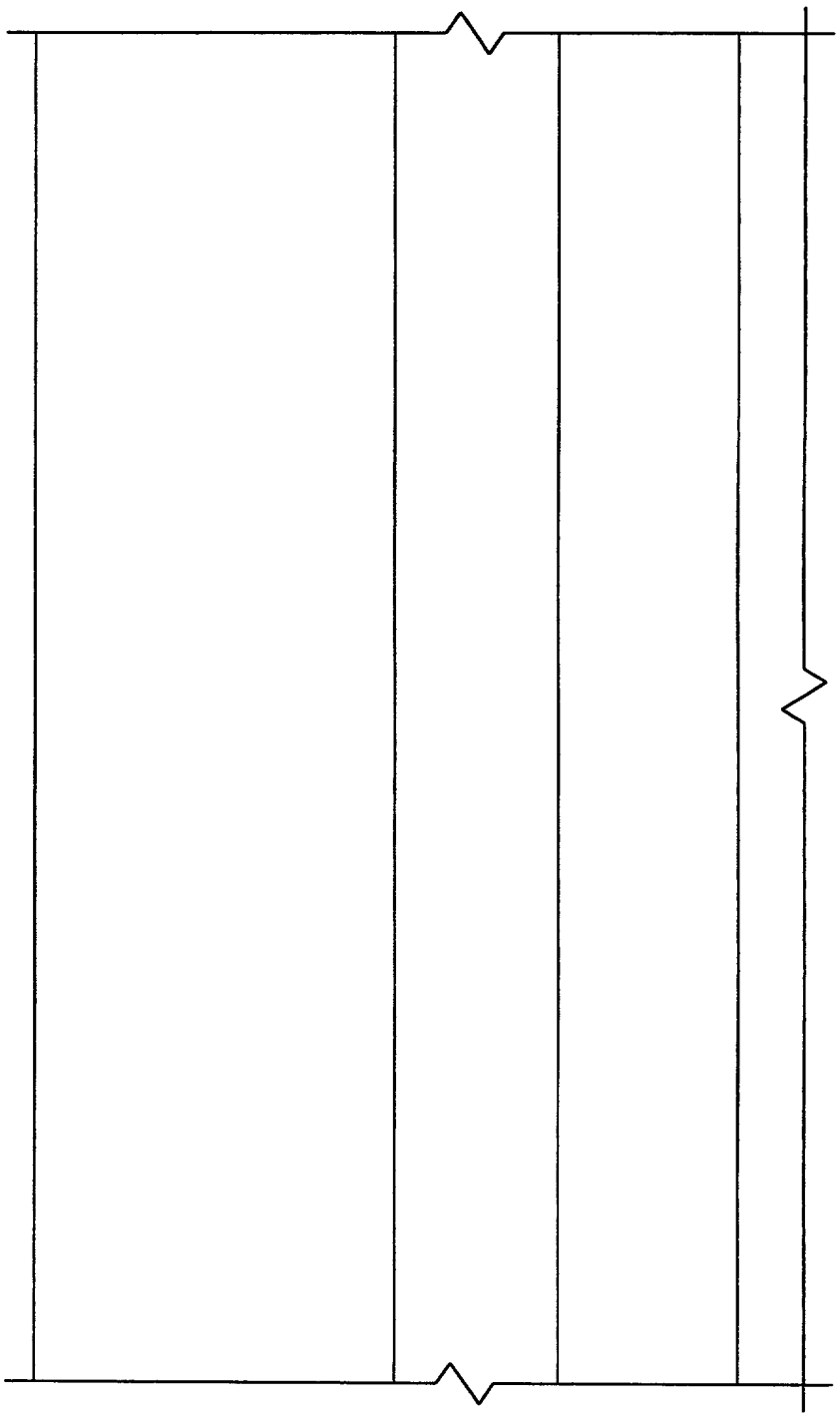


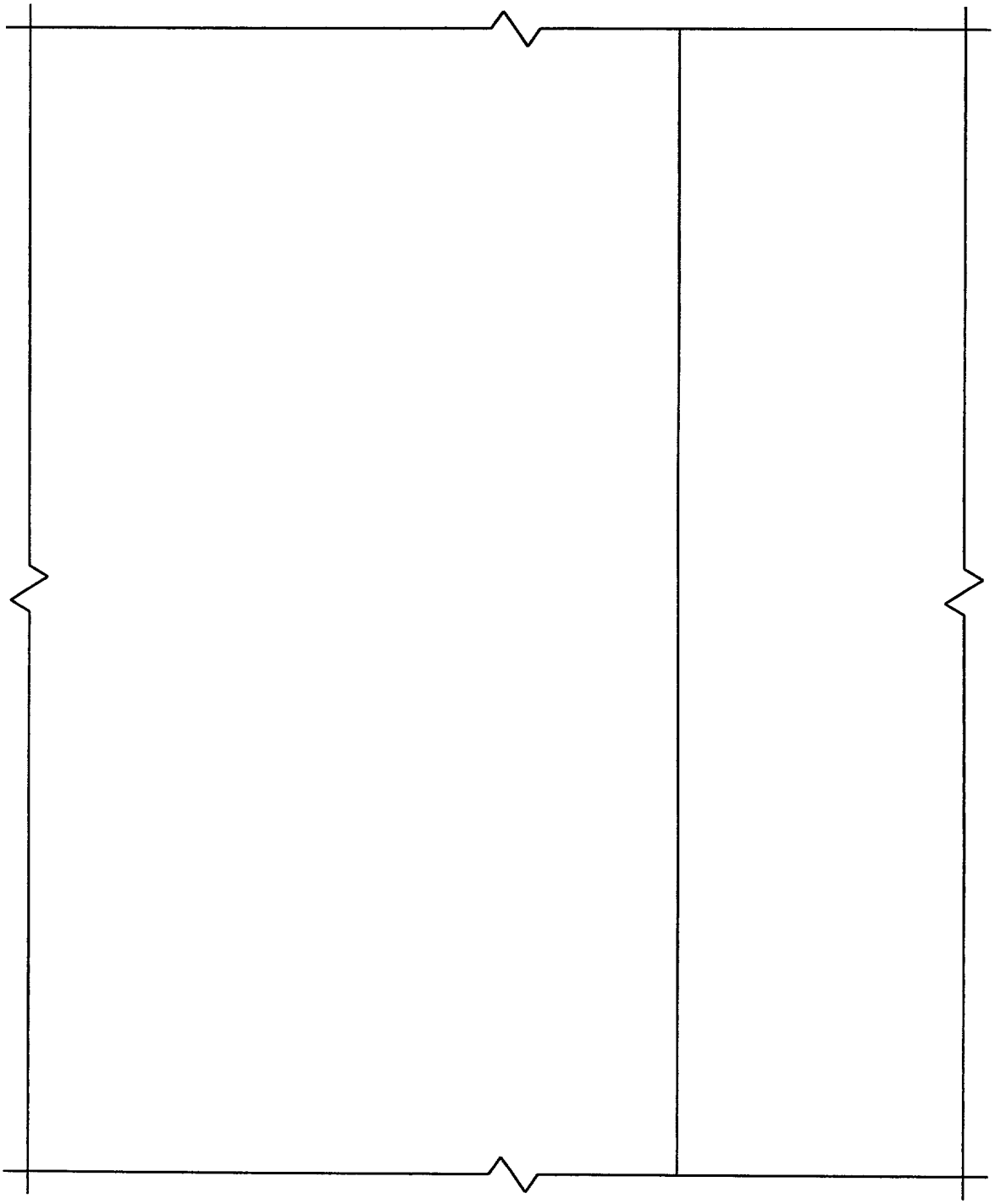
Fig 8.0107CN

7007259 05/15/95



Ед 8.010710А

5960565.05454



D5822605.05440.01

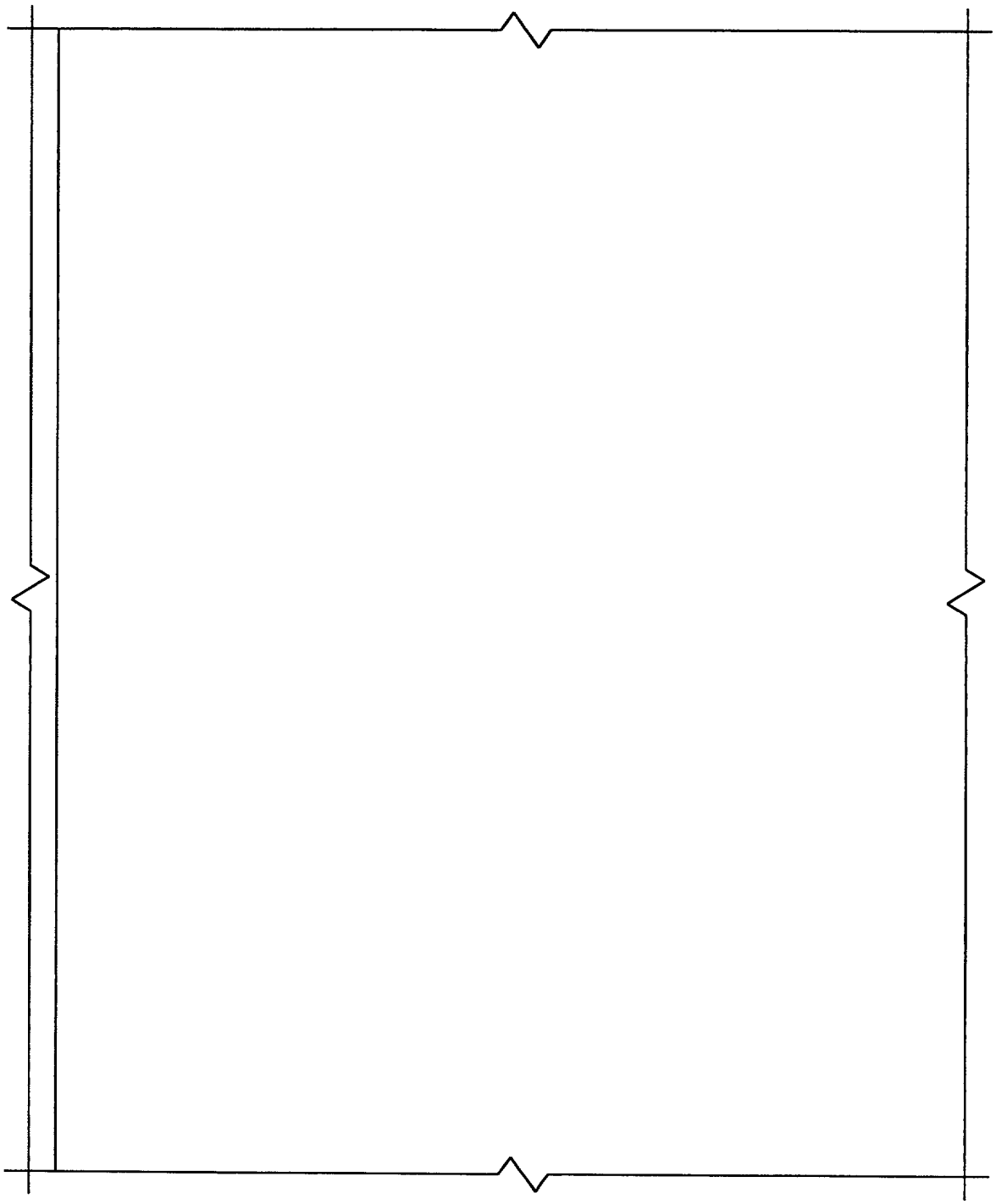


Fig 8.0107.00C

Document - 1241/3273

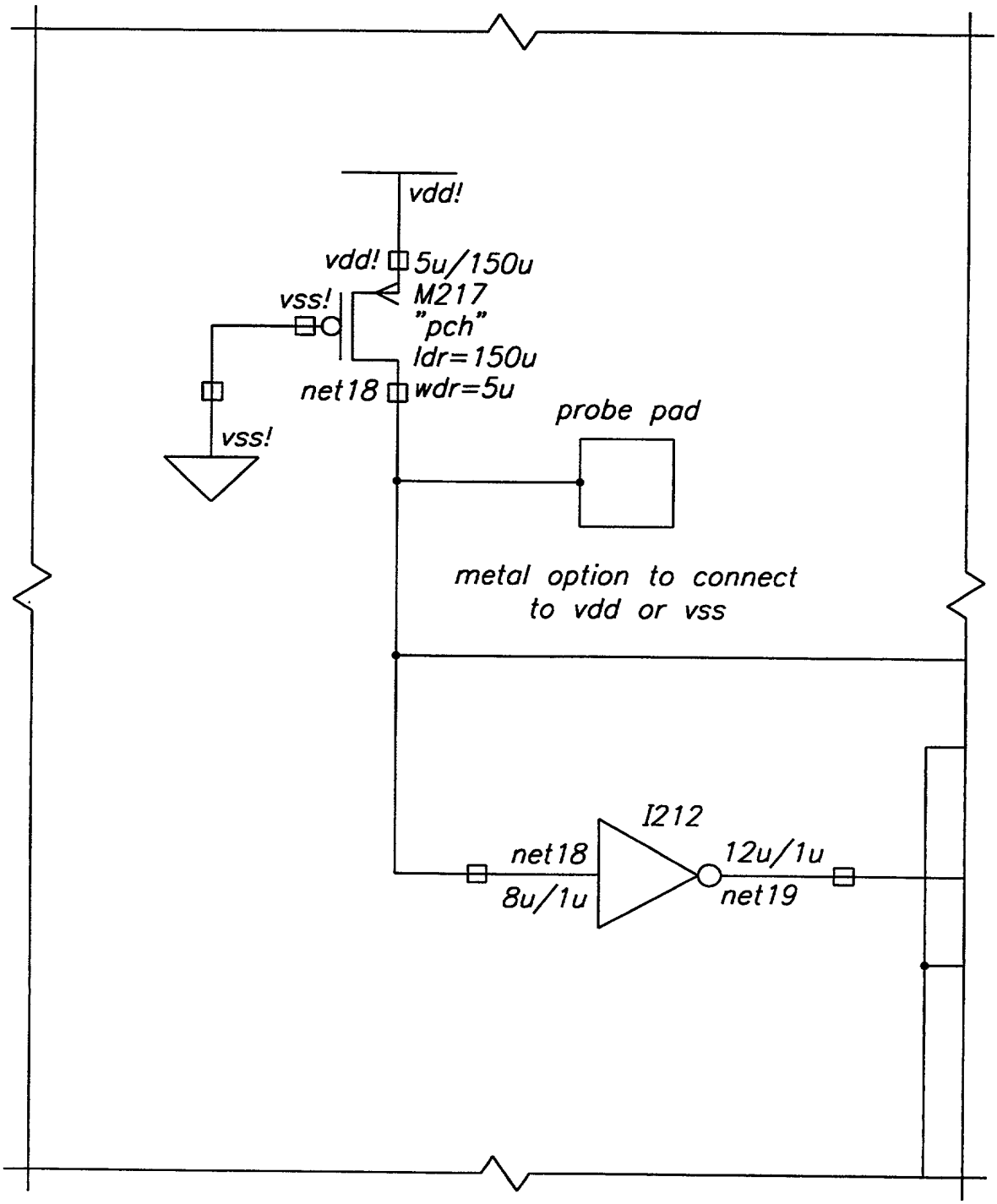


Fig 8.0110.1000

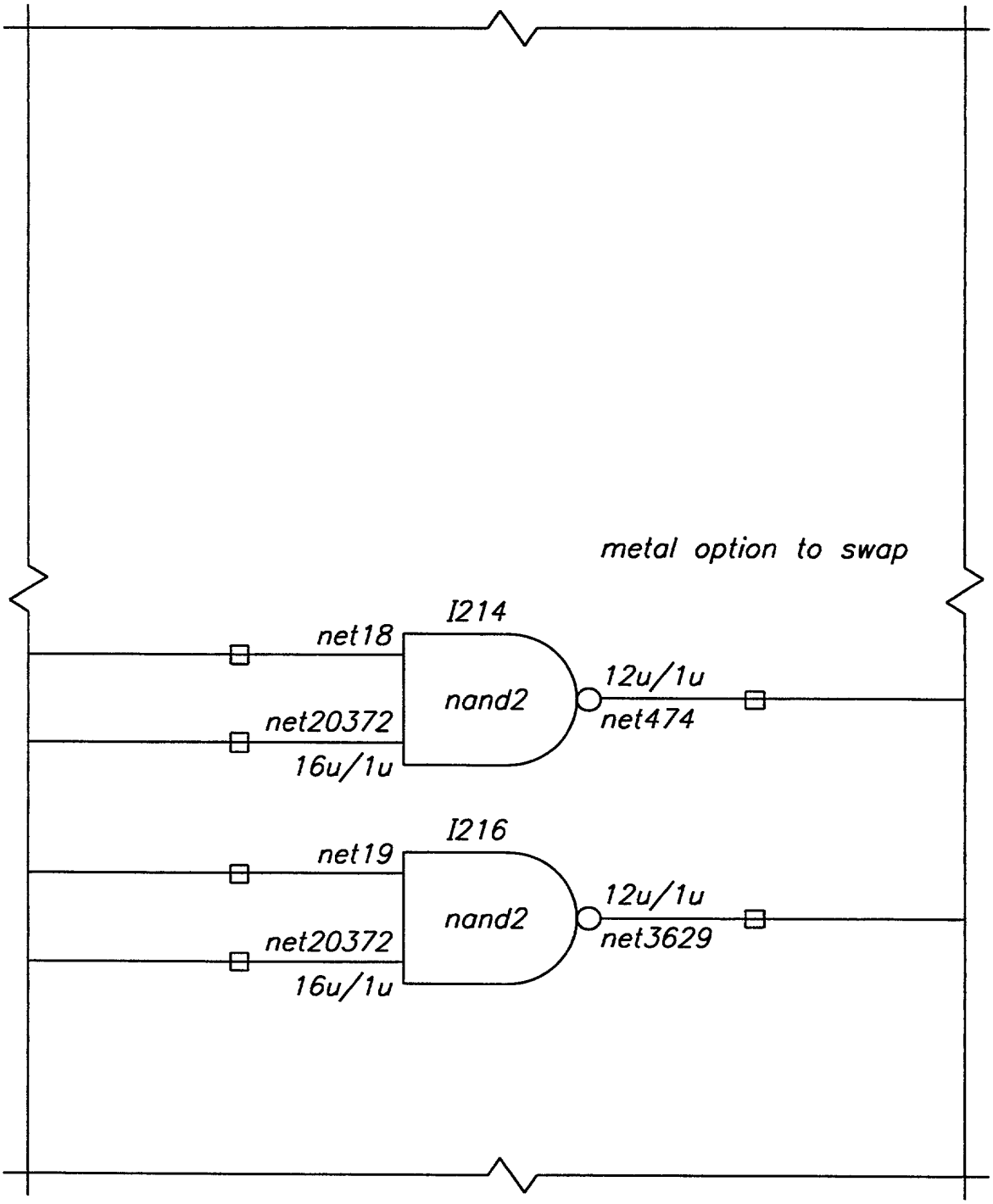

metal option to swap
I214
net18
nand2
12u/1u
net474
net20372
16u/1u
I216
net19
nand2
12u/1u
net3629
net20372
16u/1u

Fig 8.01/1DE

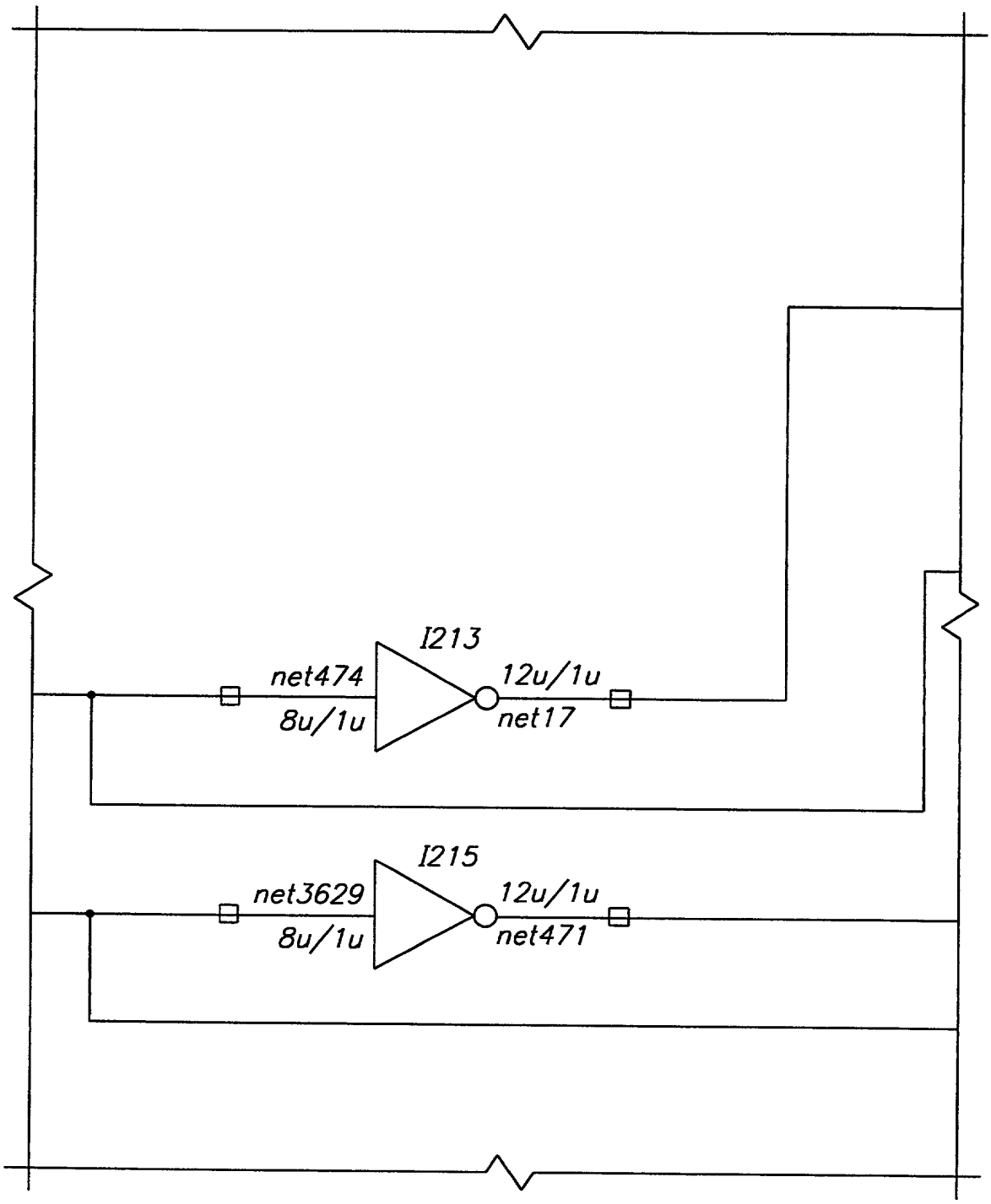

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8u/1u
12u/1u
net17
I215
net3629
8u/1u
12u/1u
net471

Fig 8.0107DF

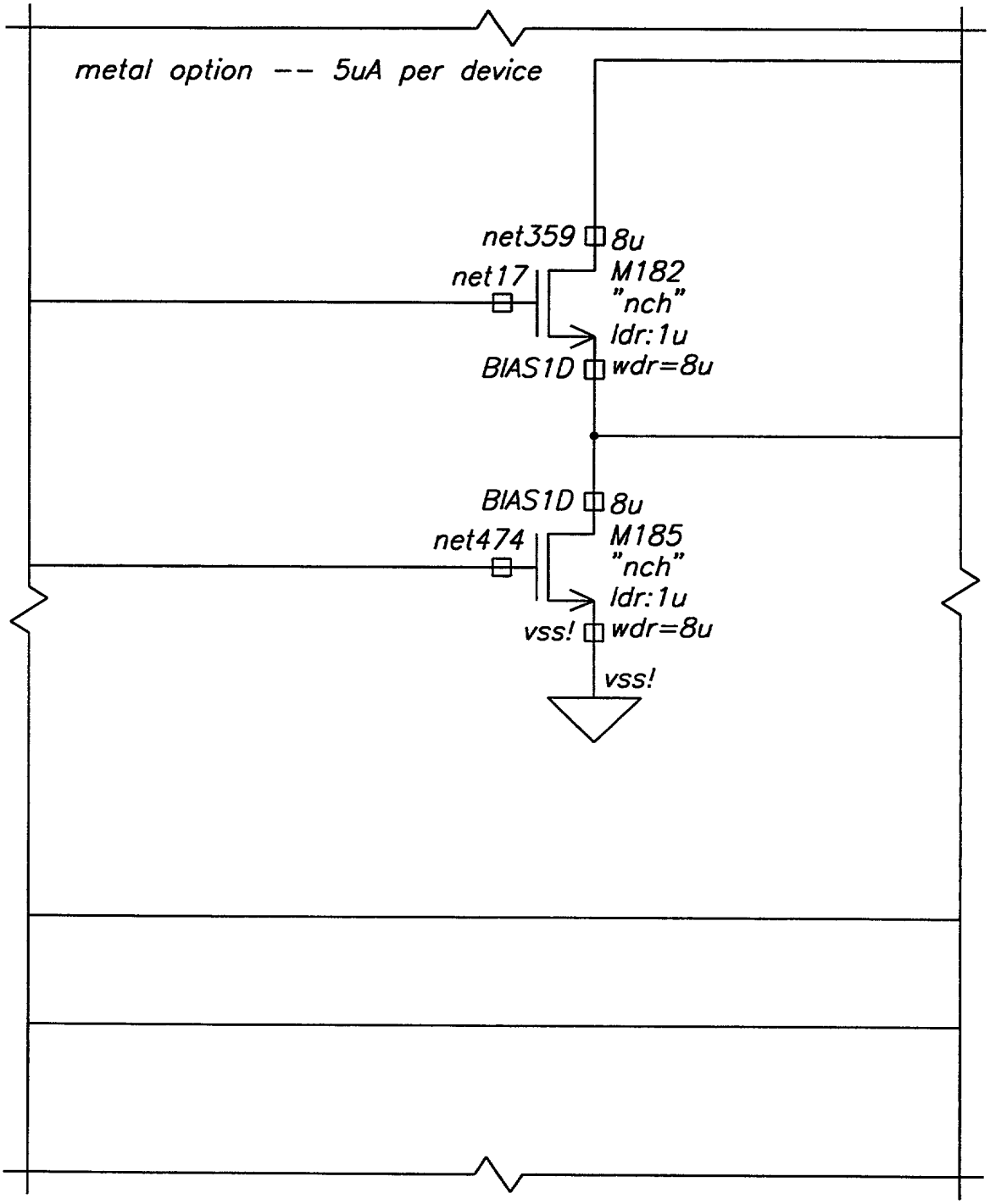


Fig 8.0107106

05/25/99, EAST Version: 1.03.0007

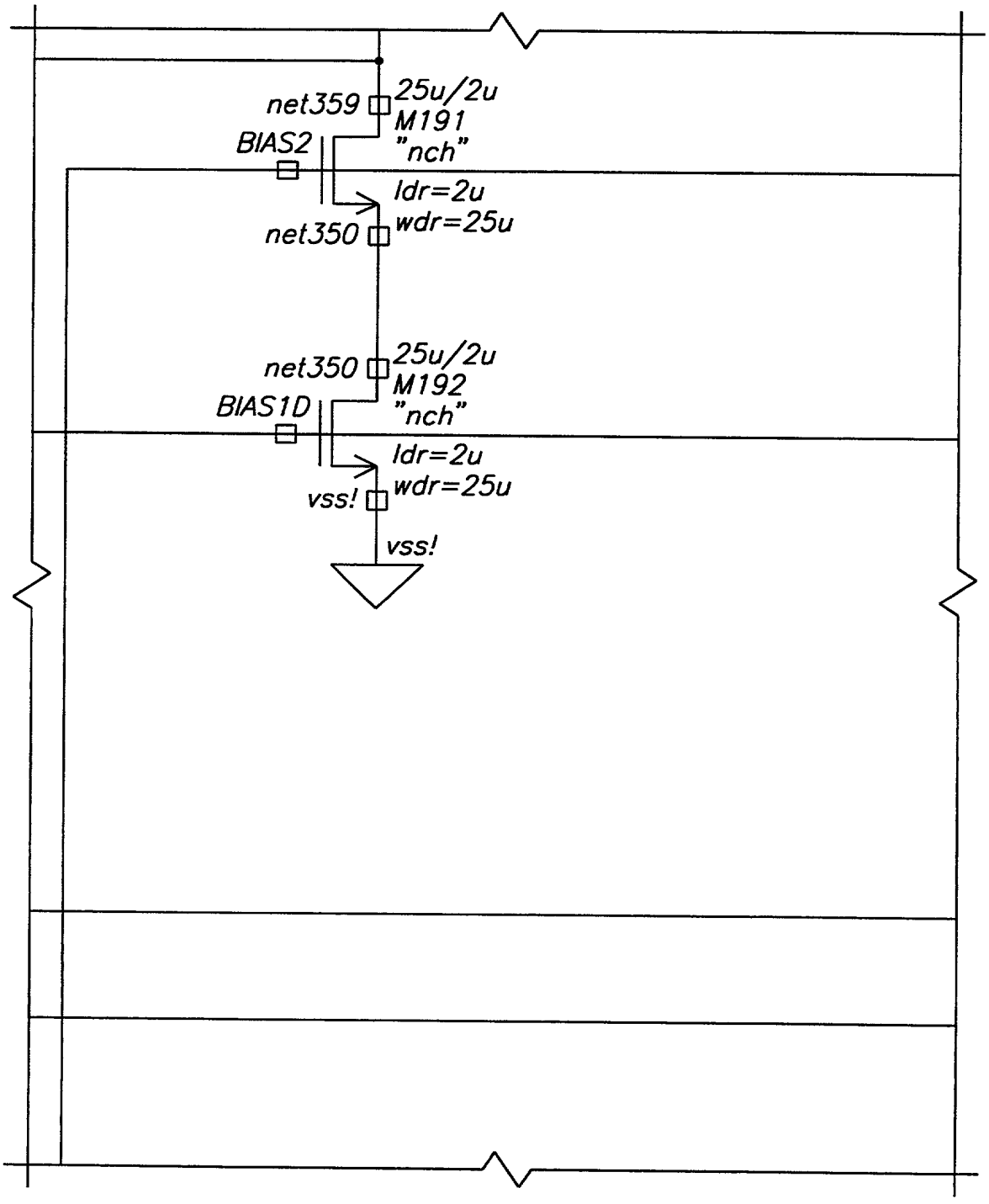

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BIAS2
ldr=2u
wdr=25u
net350
net350
25u/2u
M192
"nch"
BIAS1D
ldr=2u
wdr=25u
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vss!

Fig 8.10(b)

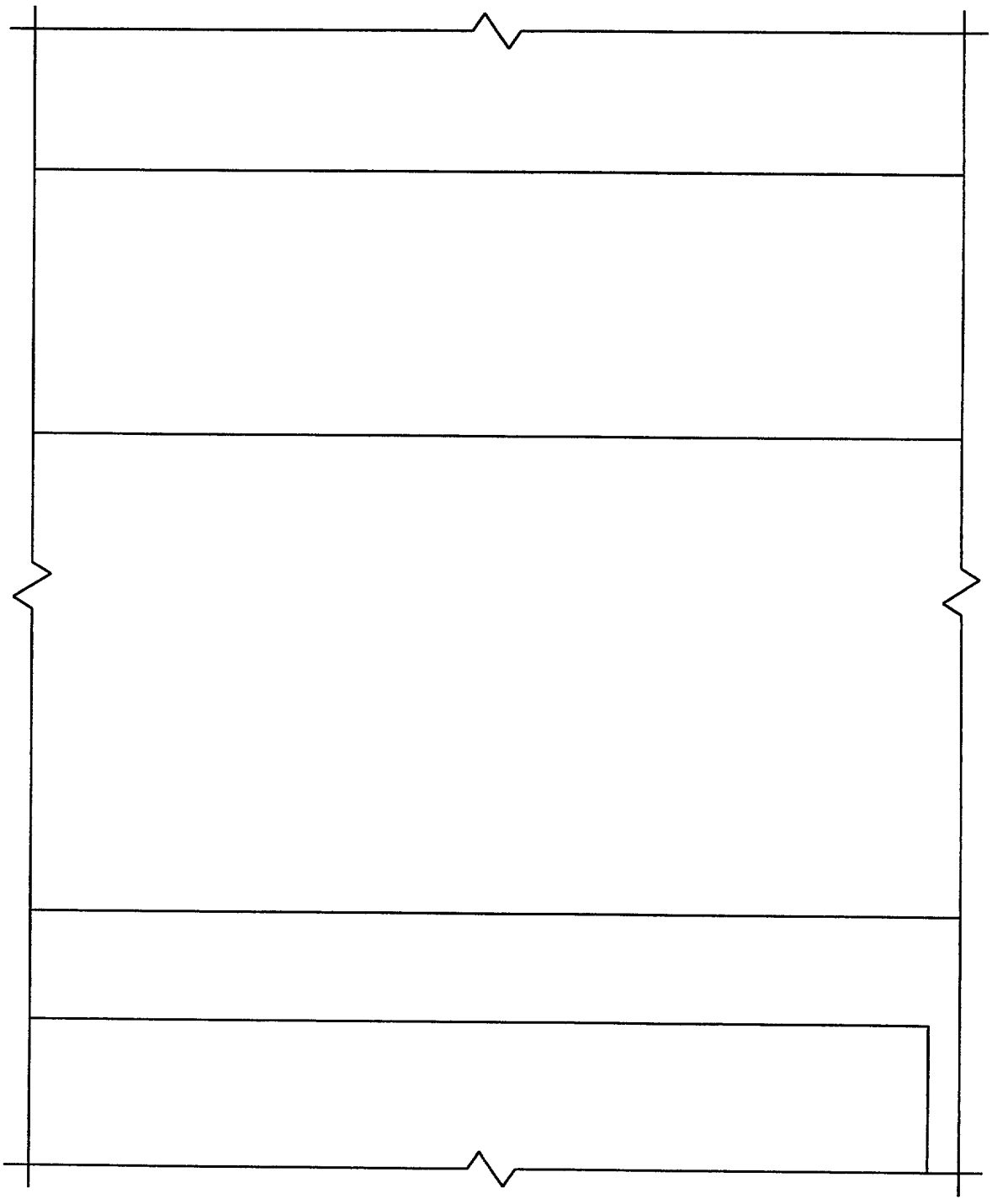


Fig 8.0107011

09/26/05, EAST, 10674101

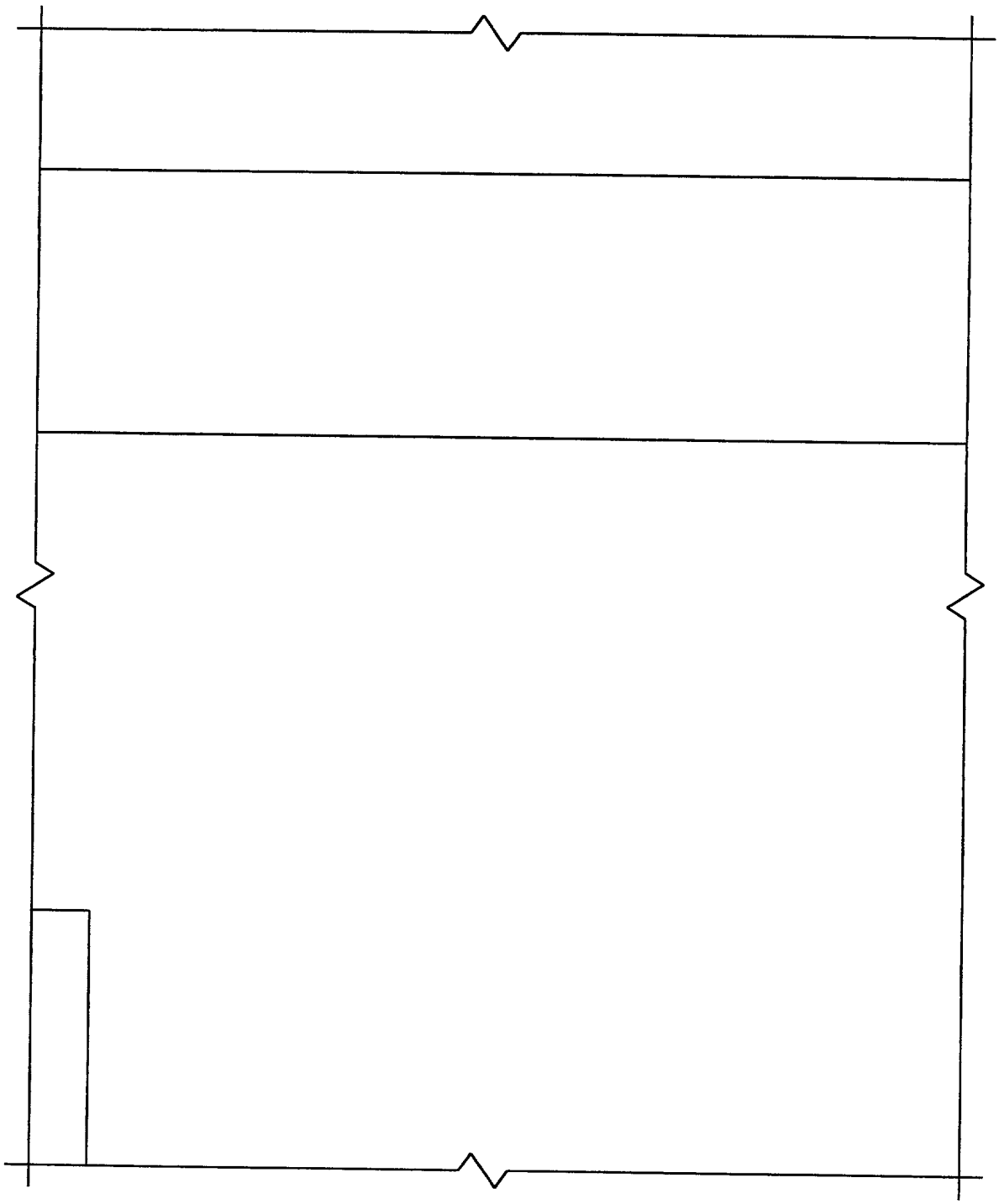
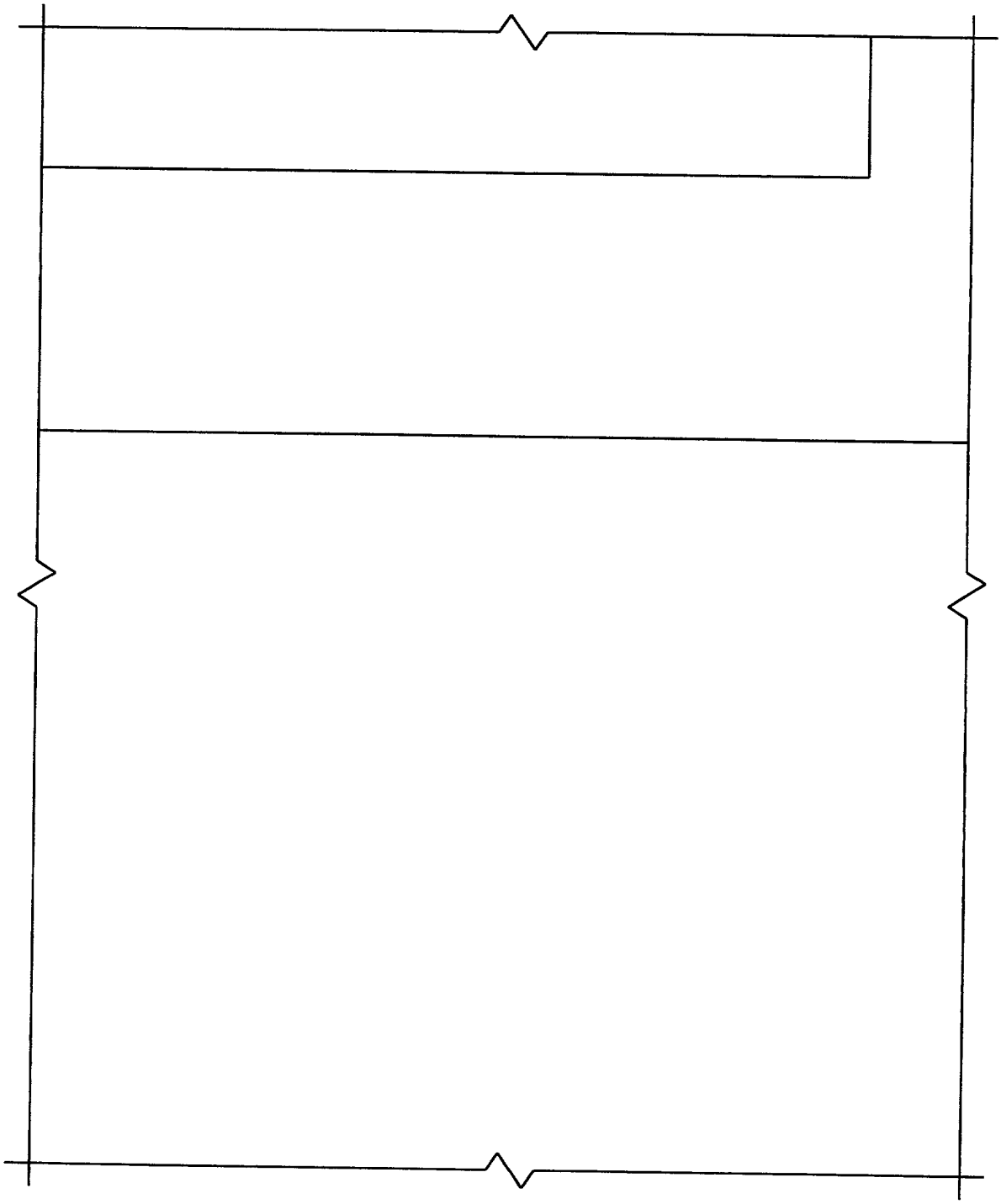


Fig 8.0107.01



Лд 8.0107ДК

Инв. № подл. | Подпись и дата | Взам. инв. №

1250/3273

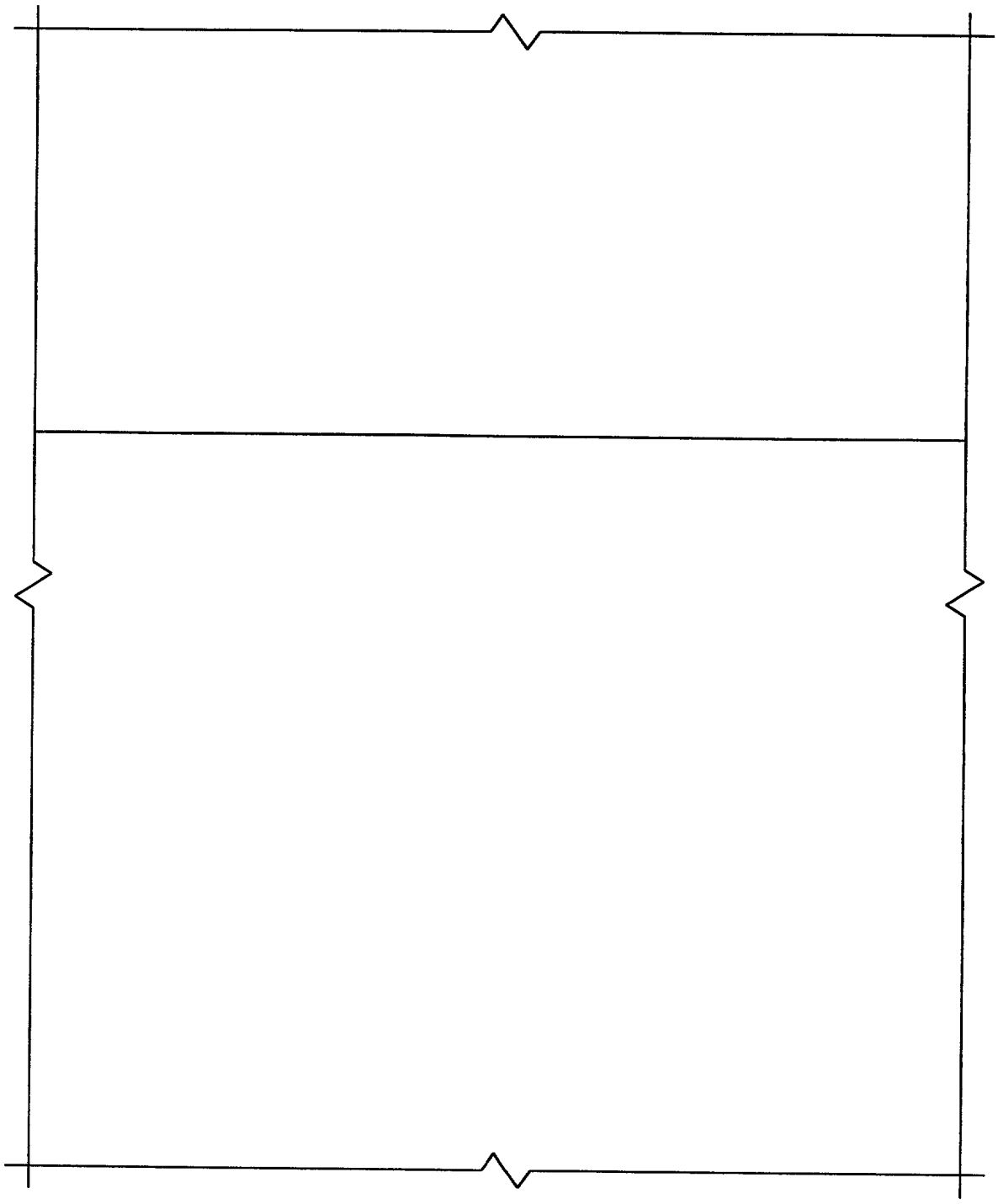
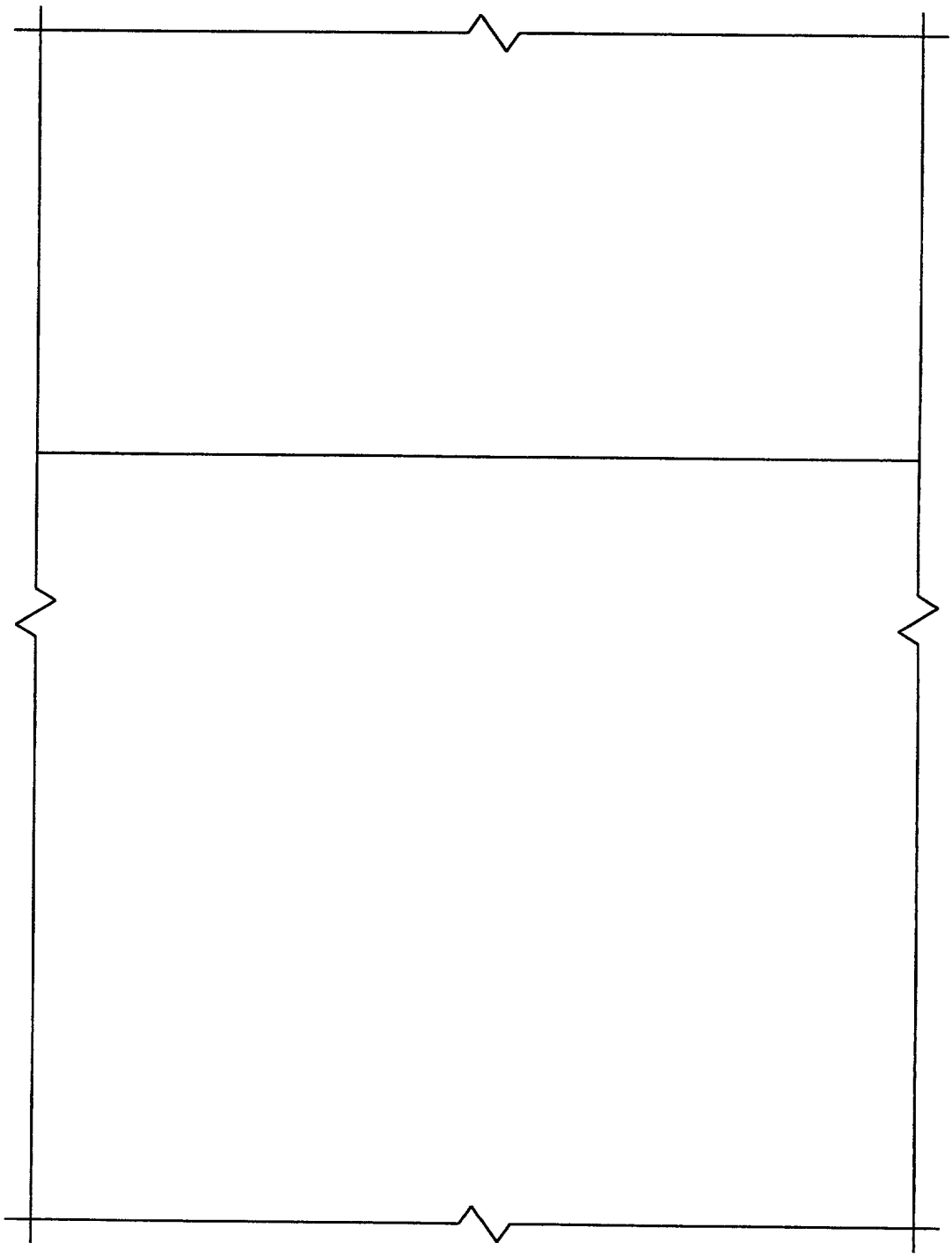


Fig 8.0107DL

Document ID: 0.7.1250.3273



Лист 8.0107.0М

Подписано 05.12.2005

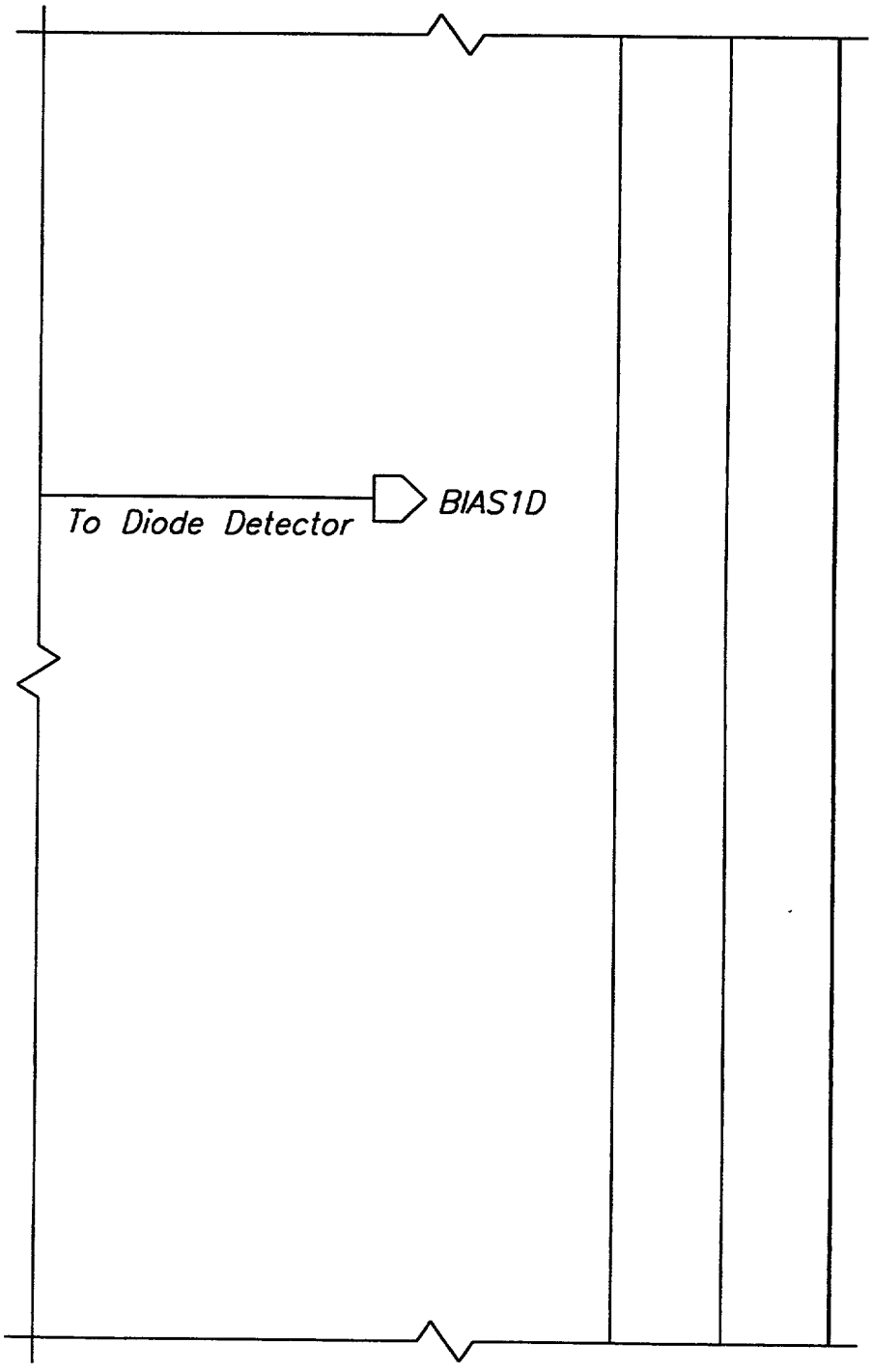
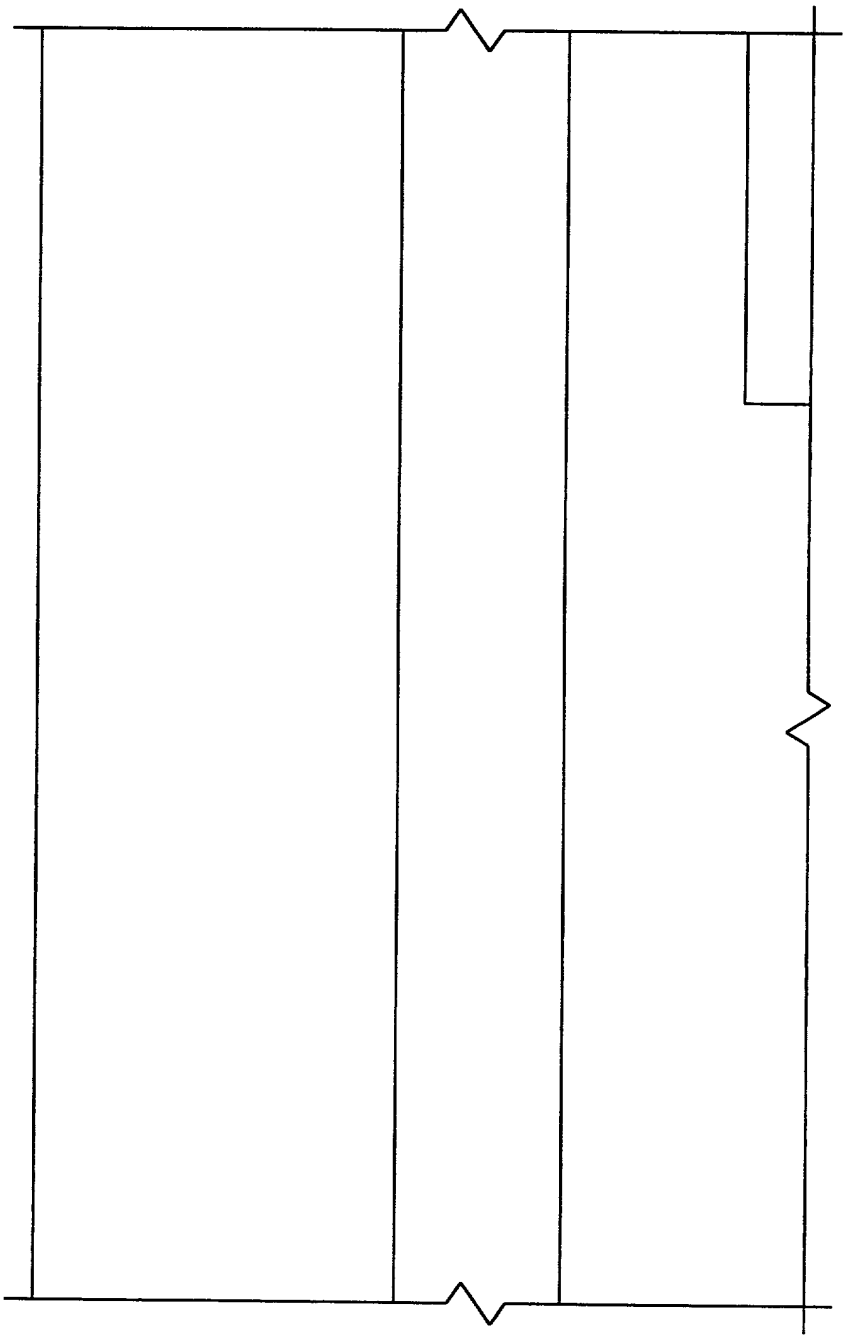


Fig 8.0107DN

Document Control



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0960960 .05.4.09

1254/3273

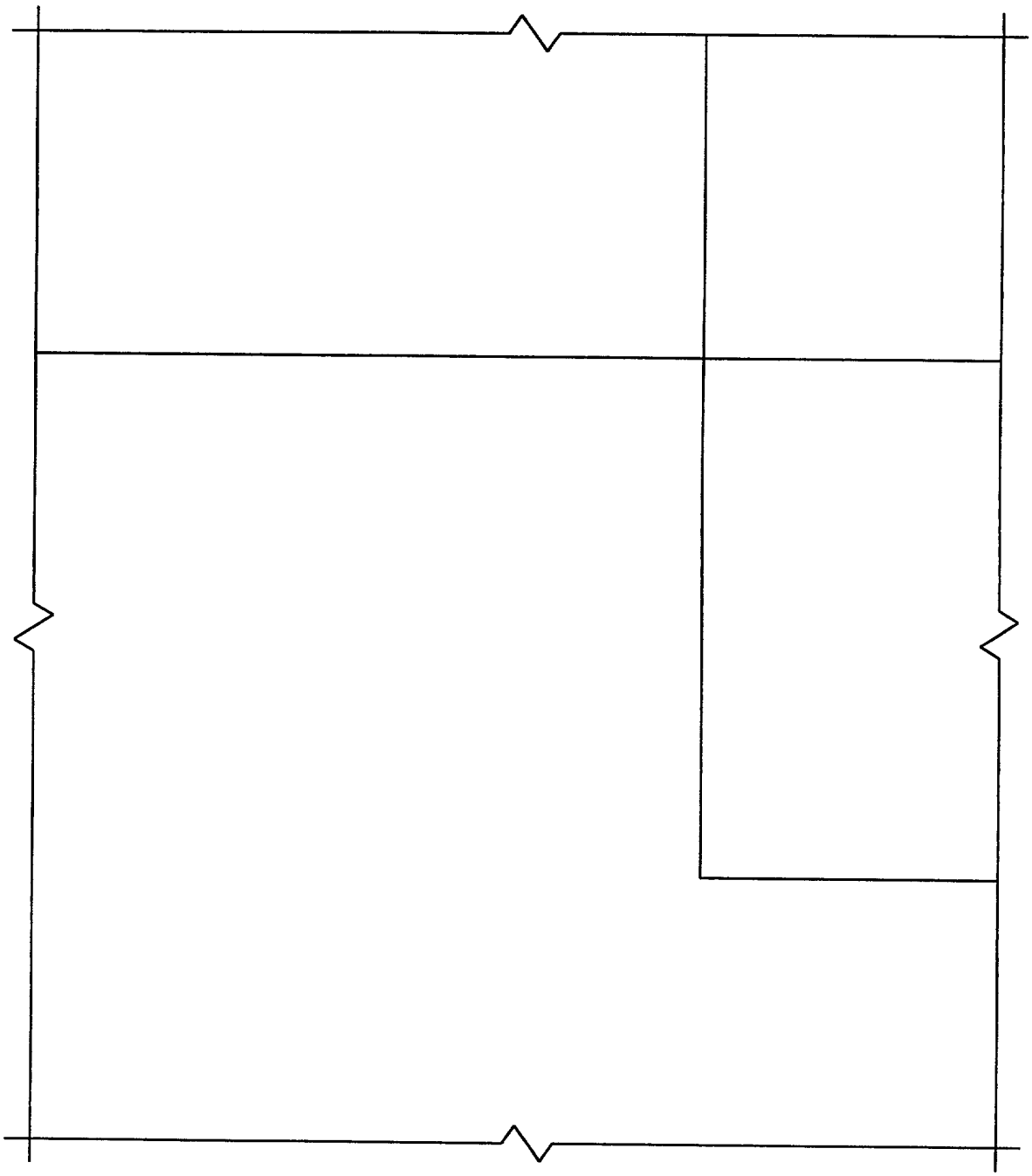


Fig 8.0107EB

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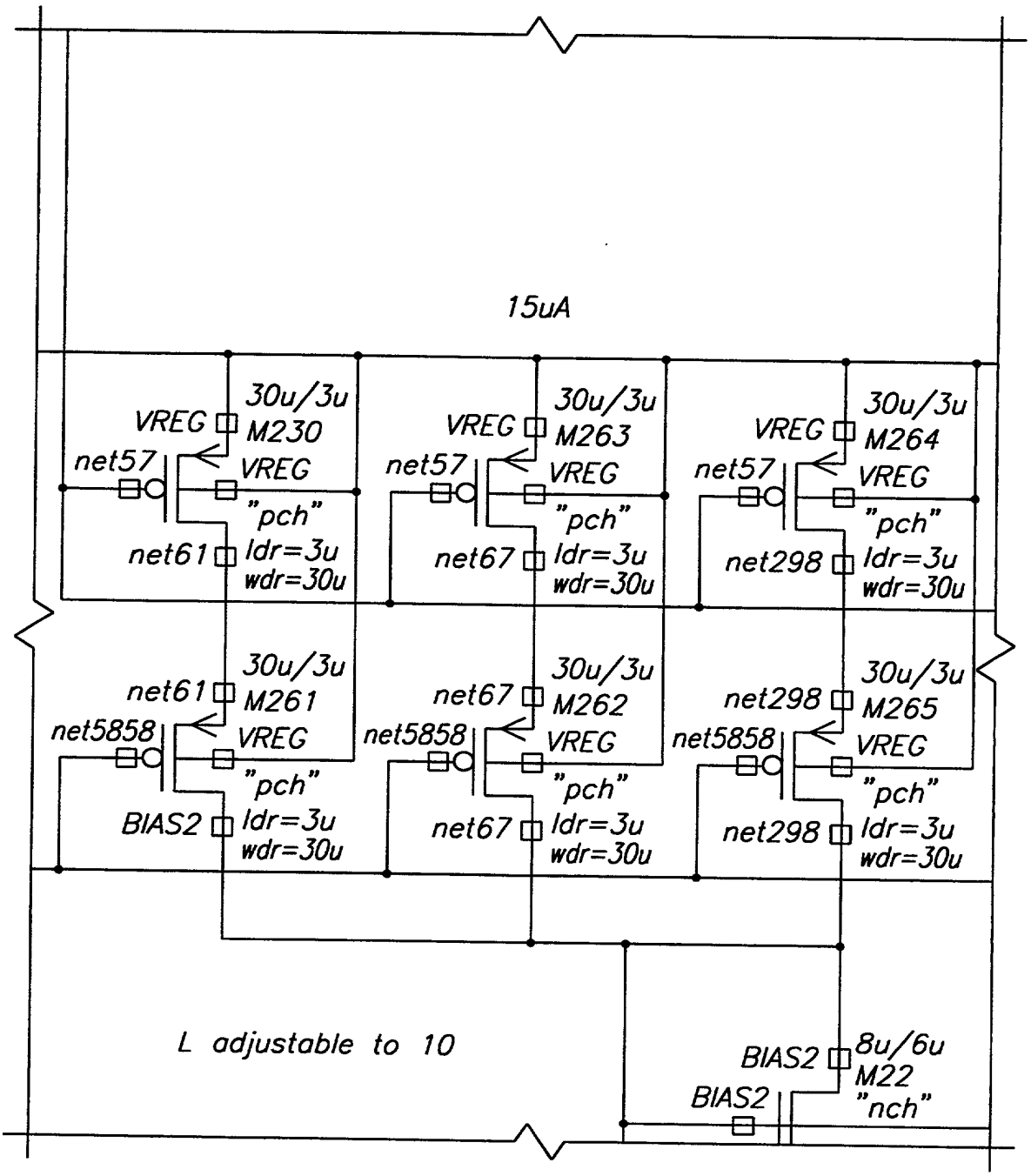
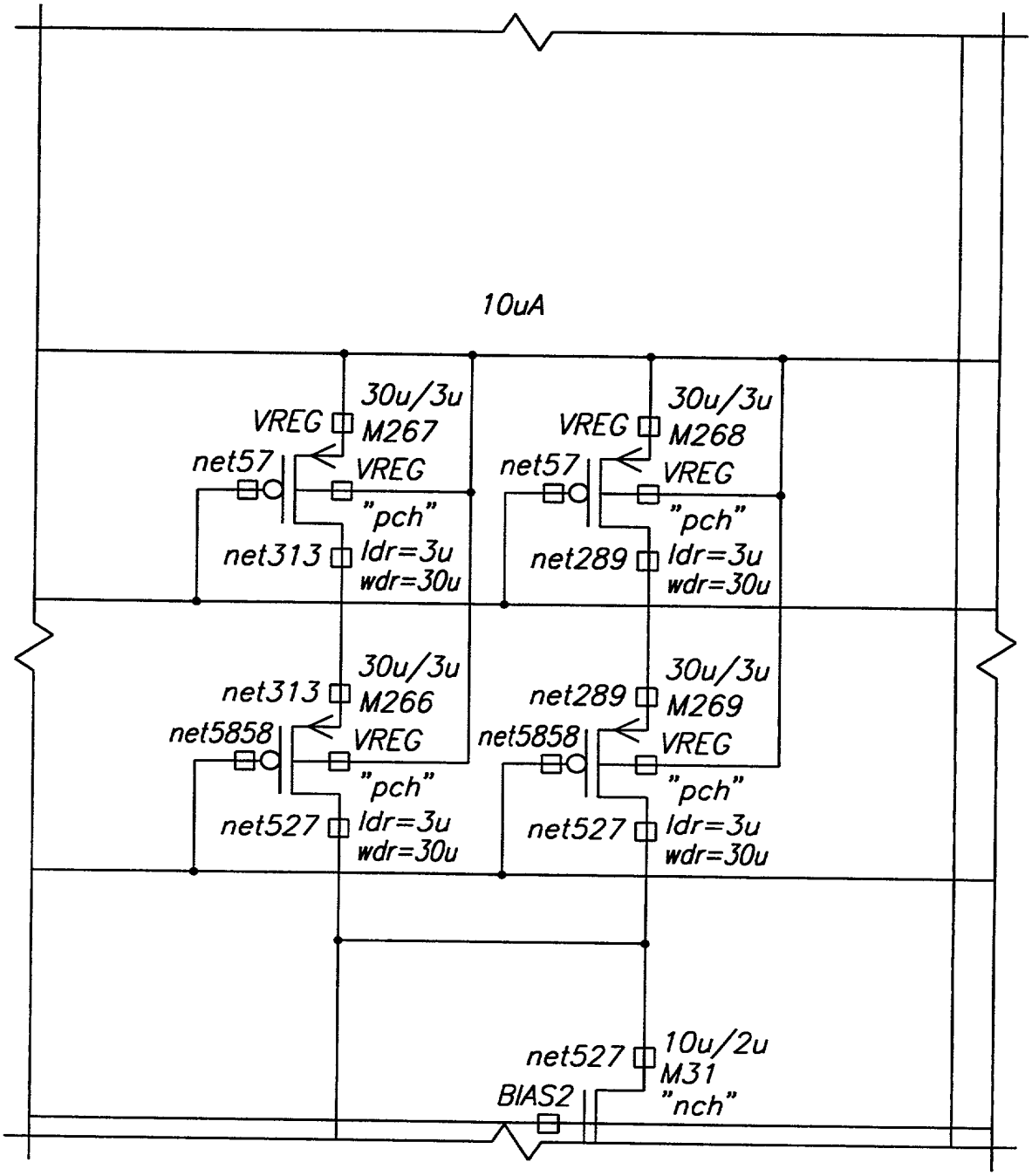

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wdr=30u
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M263
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net57
VREG
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ldr=3u
wdr=30u
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M264
VREG
net57
VREG
"pch"
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wdr=30u
30u/3u
M261
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M262
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net67
ldr=3u
wdr=30u
30u/3u
M265
net298
net5858
VREG
"pch"
net298
ldr=3u
wdr=30u
L adjustable to 10
8u/6u
M22
BIAS2
"nch"
BIAS2

Fig 8.0100EC


10uA
30u/3u
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M267
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net313
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wdr=30u
30u/3u
VREG
M268
net57
VREG
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ldr=3u
wdr=30u
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net313
M266
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ldr=3u
wdr=30u
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net289
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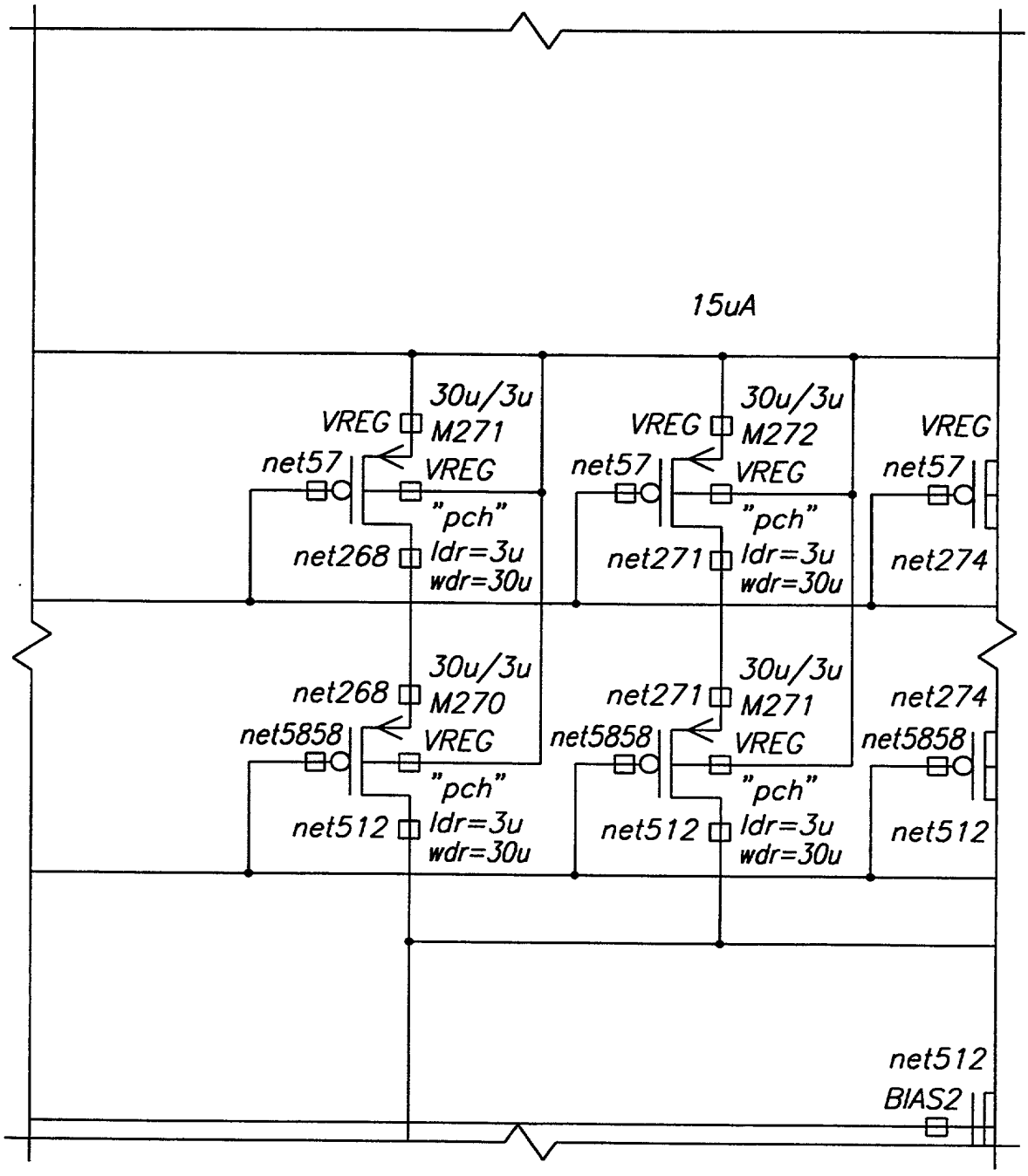


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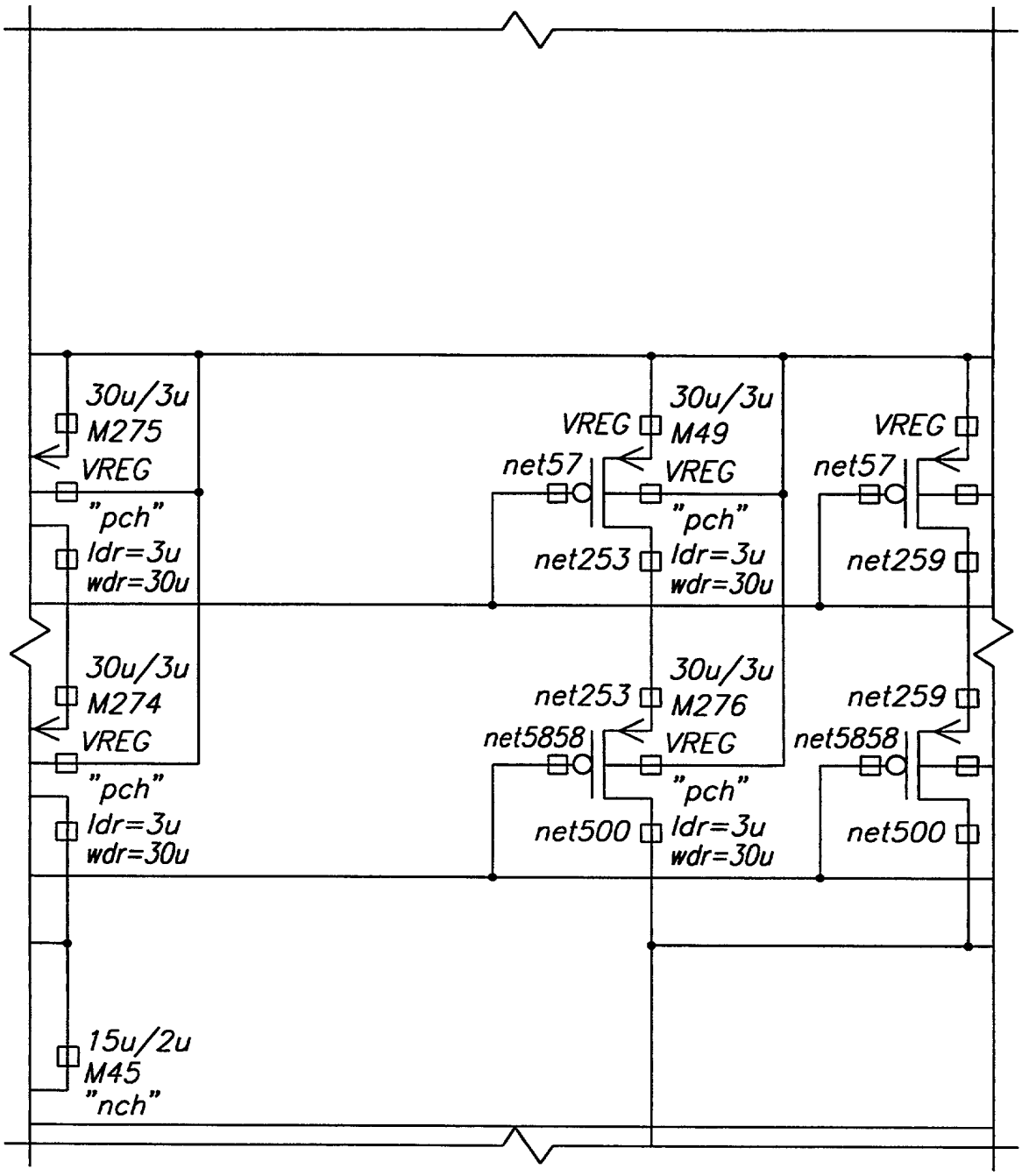

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wdr=30u
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net57
net259
30u/3u
M274
VREG
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ldr=3u
wdr=30u
30u/3u
M276
net253
net5858
VREG
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wdr=30u
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net5858
net500
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M45
"nch"

Fig 8.10.10E

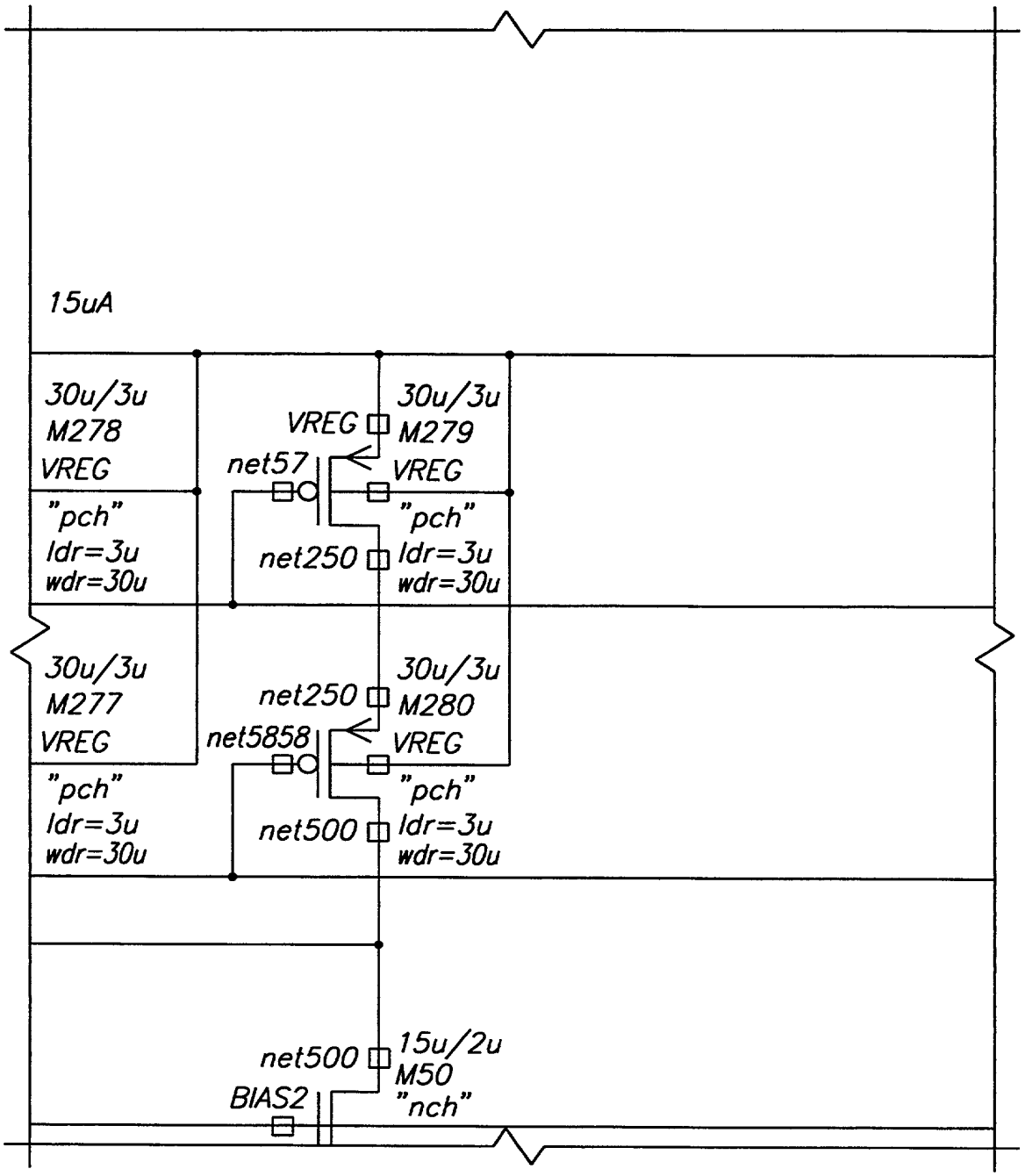
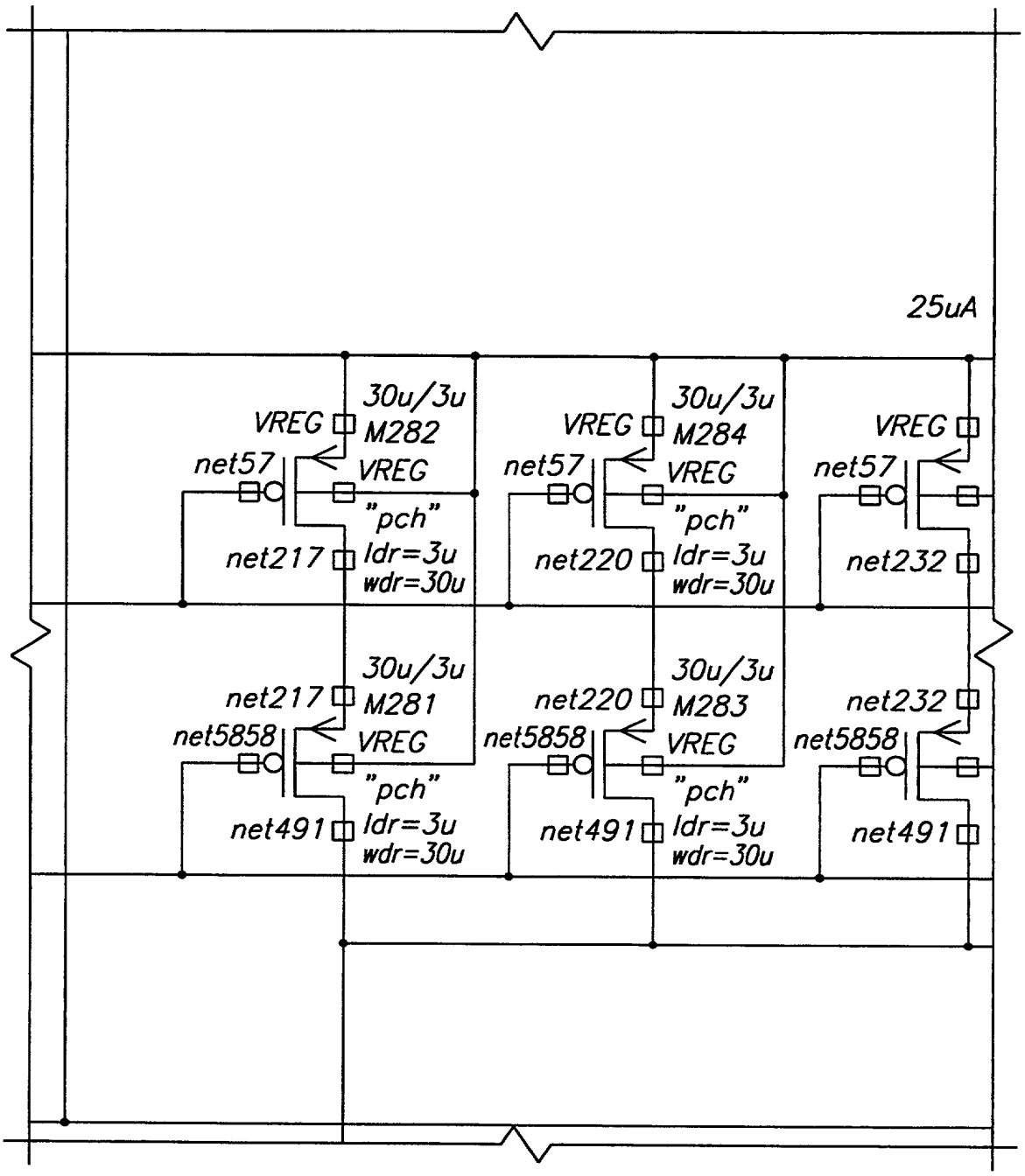

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wdr=30u
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M277
VREG
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ldr=3u
wdr=30u
net250
net5858
net500
30u/3u
M280
VREG
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wdr=30u
net500
BIAS2
15u/2u
M50
"nch"

Fig 8.10.16


25uA
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net57
VREG
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ldr=3u
wdr=30u
30u/3u
M284
VREG
net57
VREG
"pch"
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ldr=3u
wdr=30u
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net57
net232
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wdr=30u
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M283
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Фиг. 8В.ШЛЕН

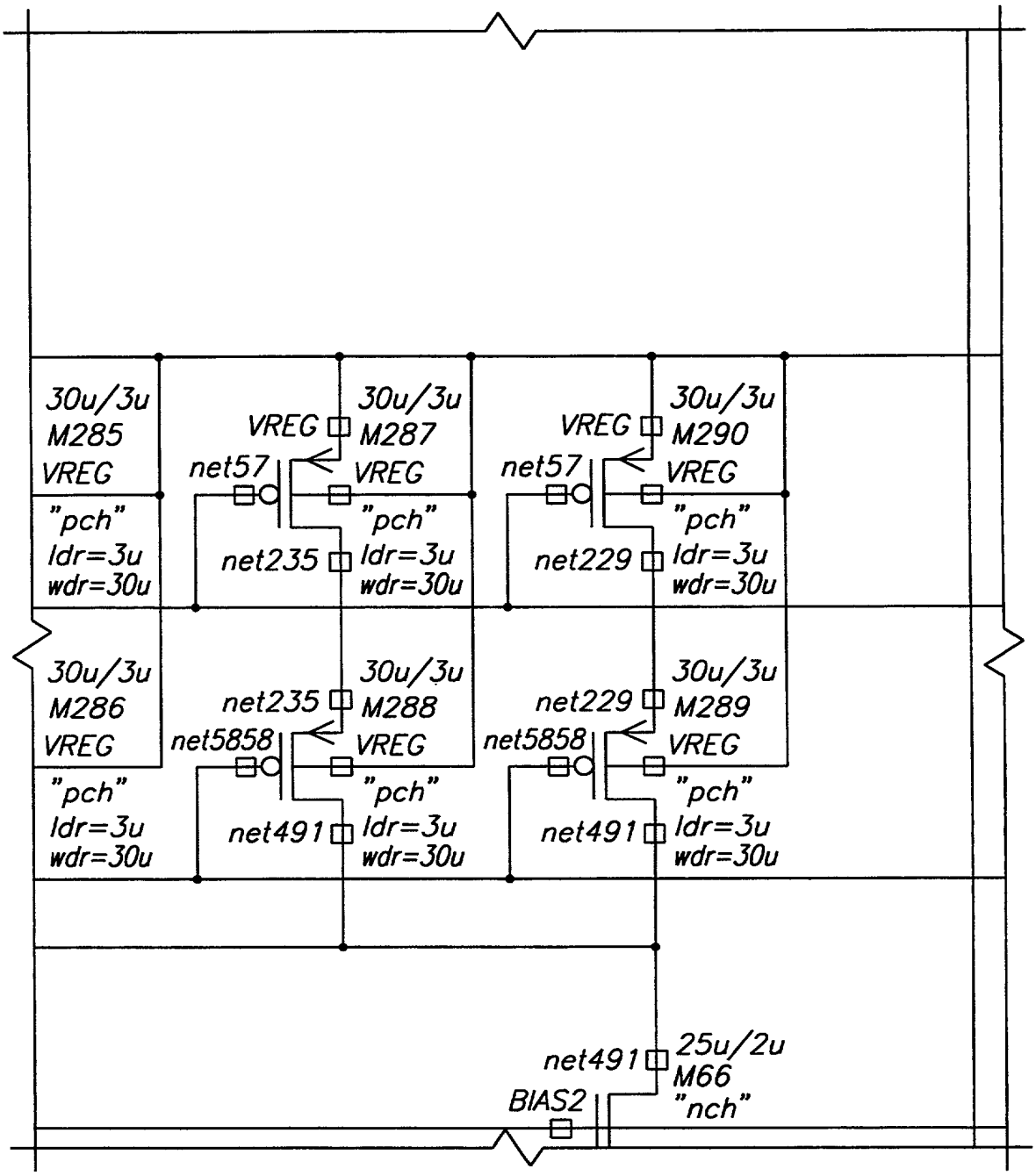

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wdr=30u
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M290
VREG
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VREG
"pch"
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ldr=3u
wdr=30u
30u/3u
M286
VREG
"pch"
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M288
net235
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wdr=30u
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M289
net229
net5858
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Fig 8.10.10.11

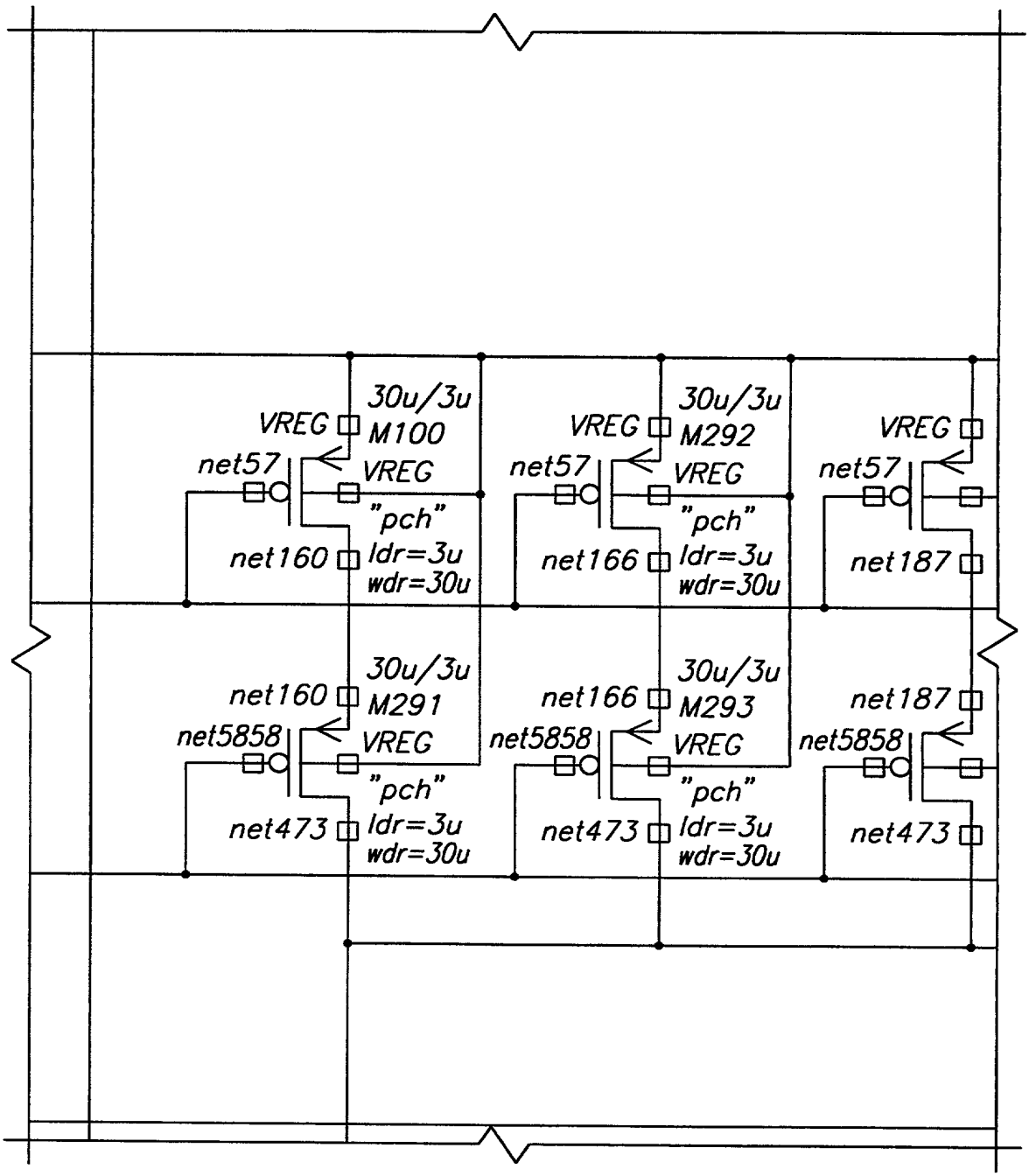
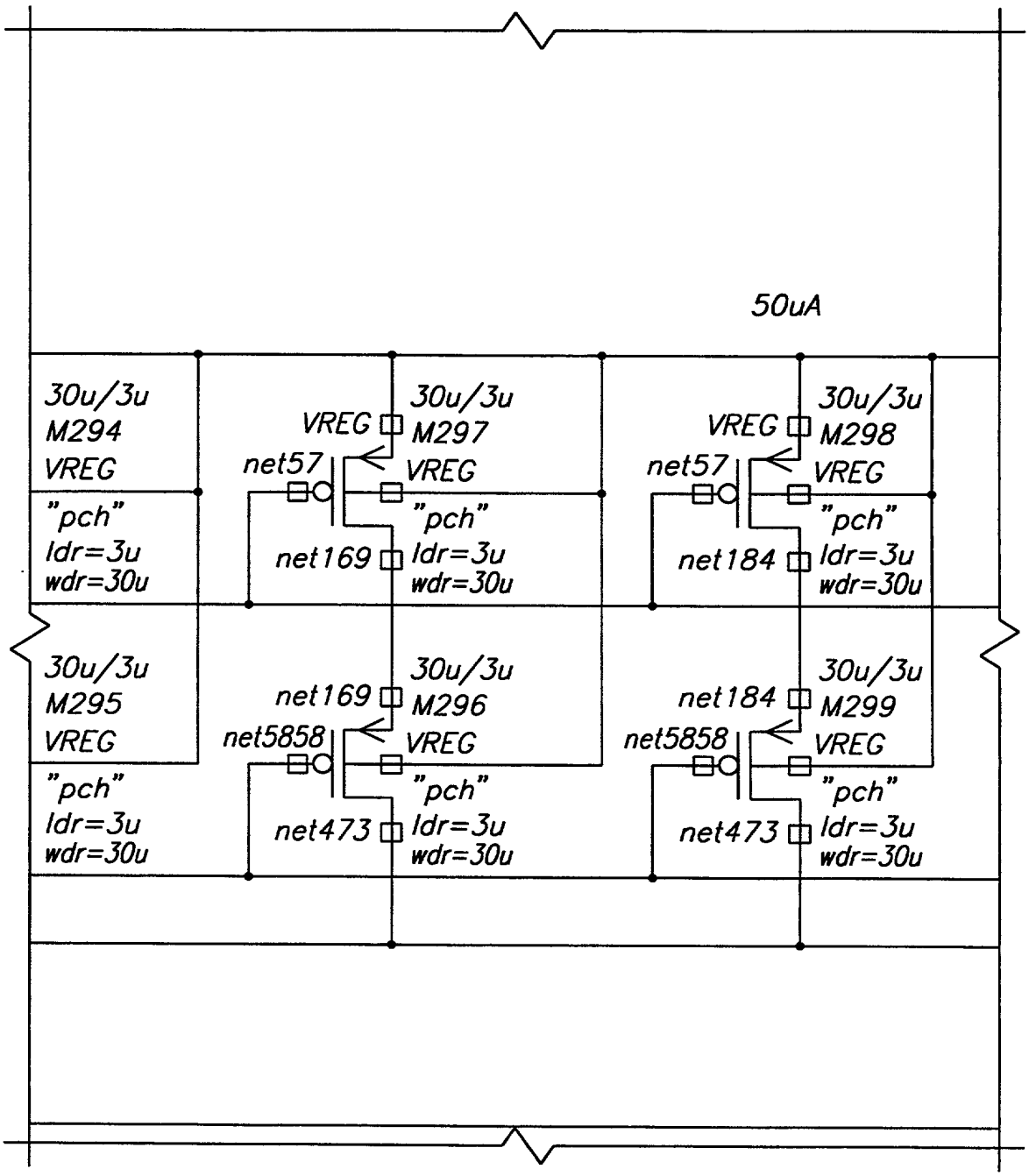

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net57
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wdr=30u
30u/3u
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VREG
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net166
ldr=3u
wdr=30u
VREG
net57
net187
30u/3u
net160
M291
net5858
VREG
"pch"
net473
ldr=3u
wdr=30u
30u/3u
net166
M293
net5858
VREG
"pch"
net473
ldr=3u
wdr=30u
net187
net5858
net473

Fig 8.10(e)


50uA
30u/3u
M294
VREG
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ldr=3u
wdr=30u
VREG
30u/3u
M297
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VREG
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wdr=30u
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Фиг 8.0110ЕК

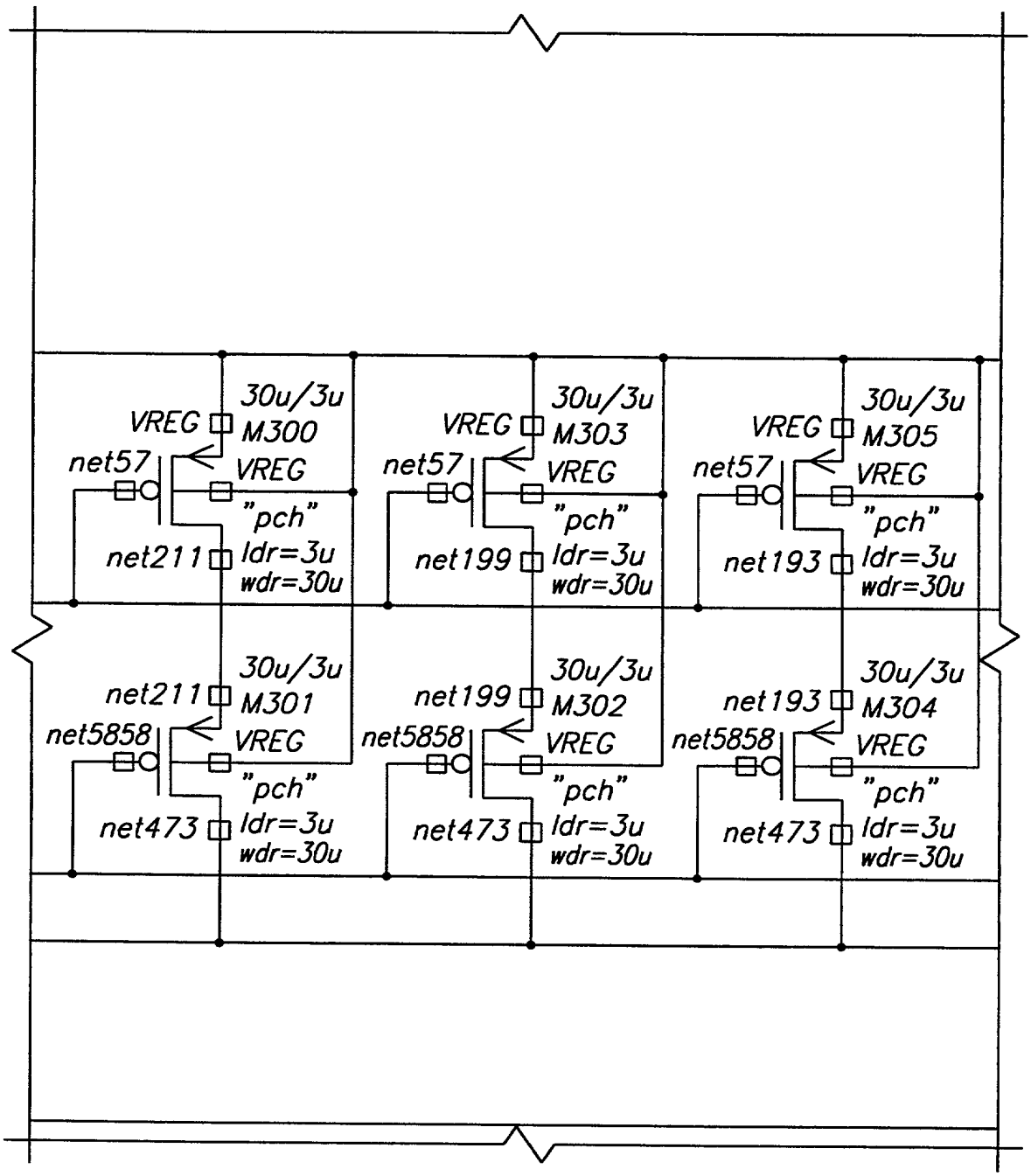

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wdr=30u
30u/3u
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M305
net57
VREG
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wdr=30u
30u/3u
net211
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net5858
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wdr=30u
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net199
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net5858
VREG
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wdr=30u
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net193
M304
net5858
VREG
"pch"
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ldr=3u
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Fig 8.10.11EL

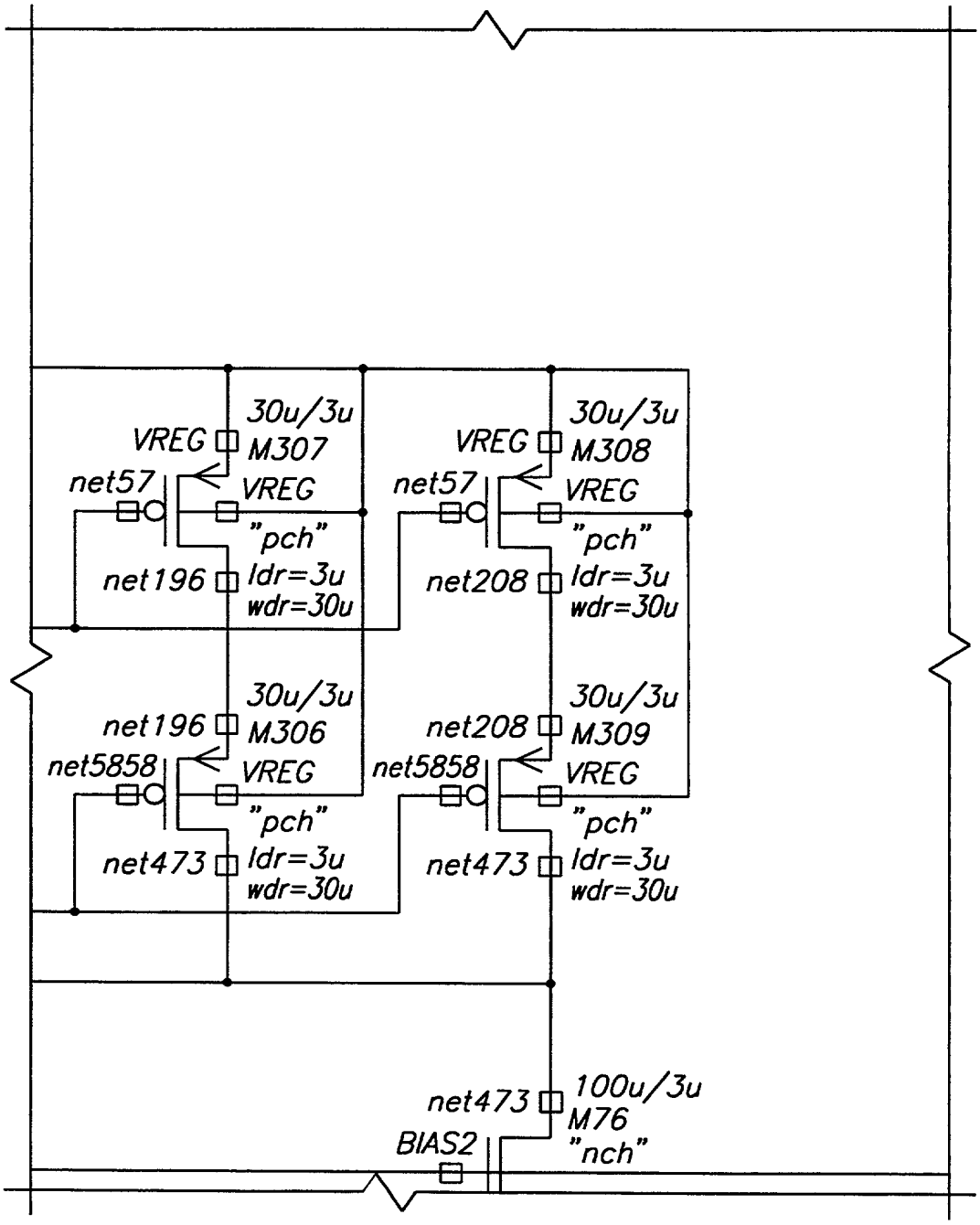
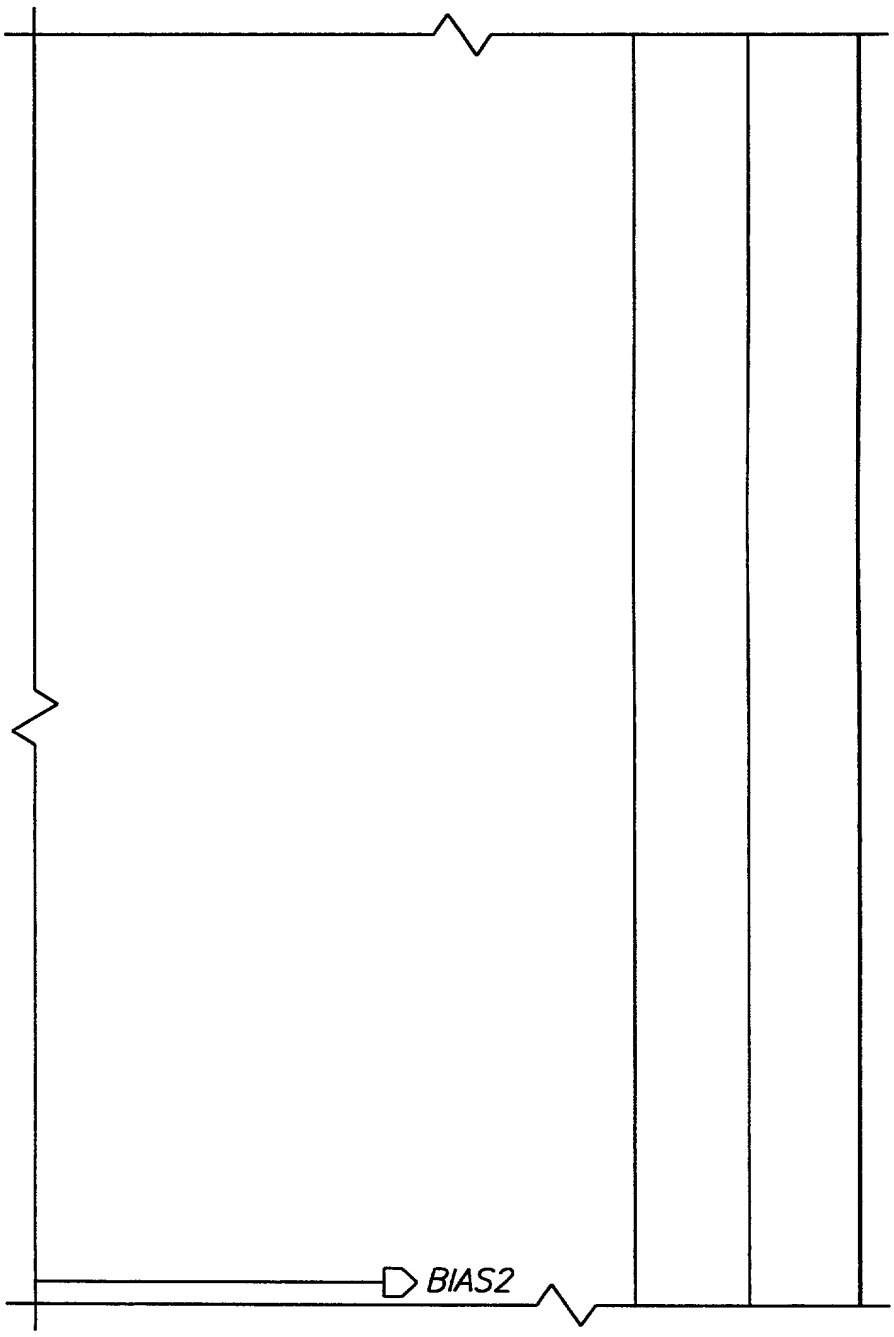

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net196
M306
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VREG
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30u/3u
net208
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"nch"
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Fig 8.10.7EM



D-6282 WIESBADEN - 05.94

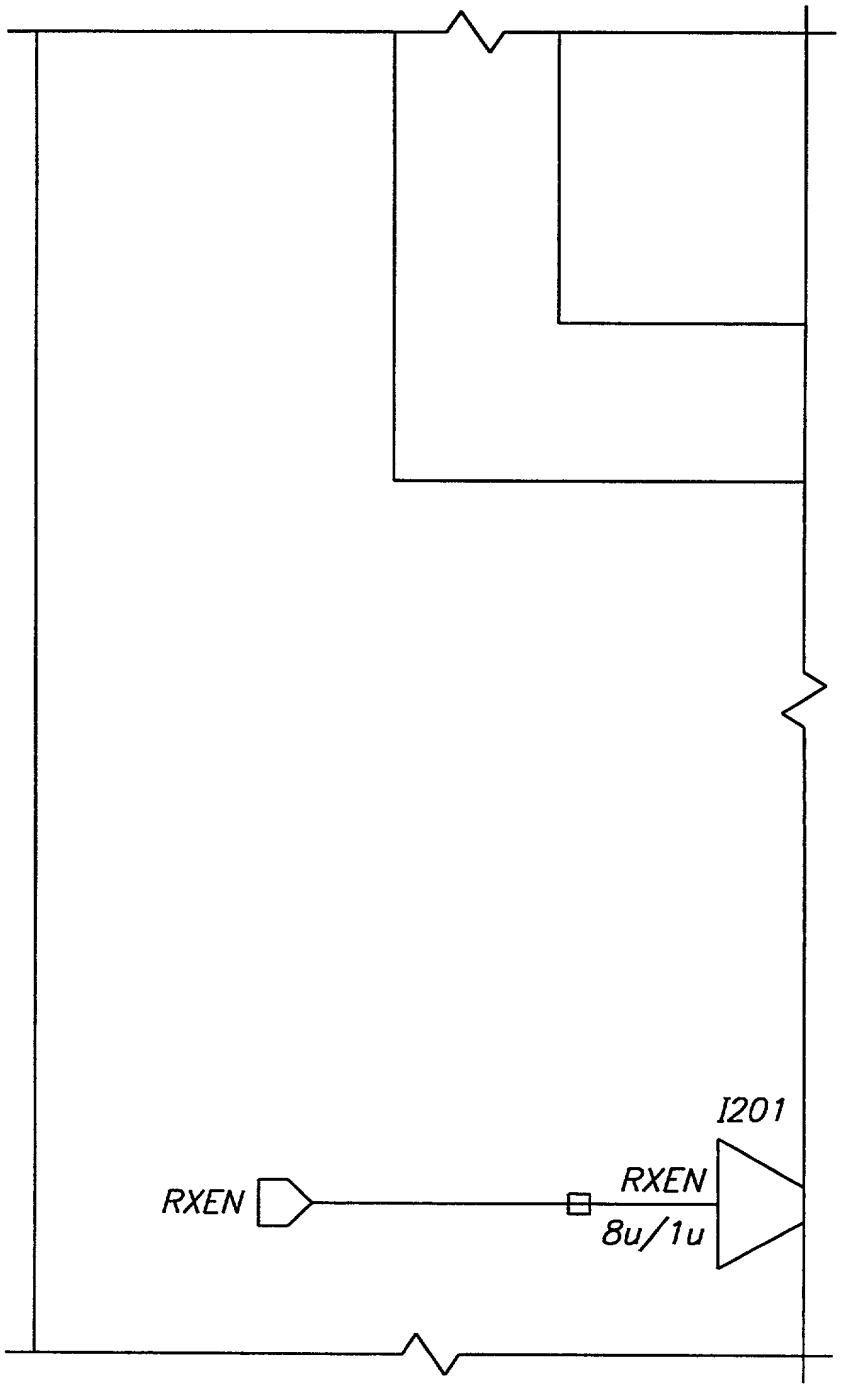


Fig 8.0107FA

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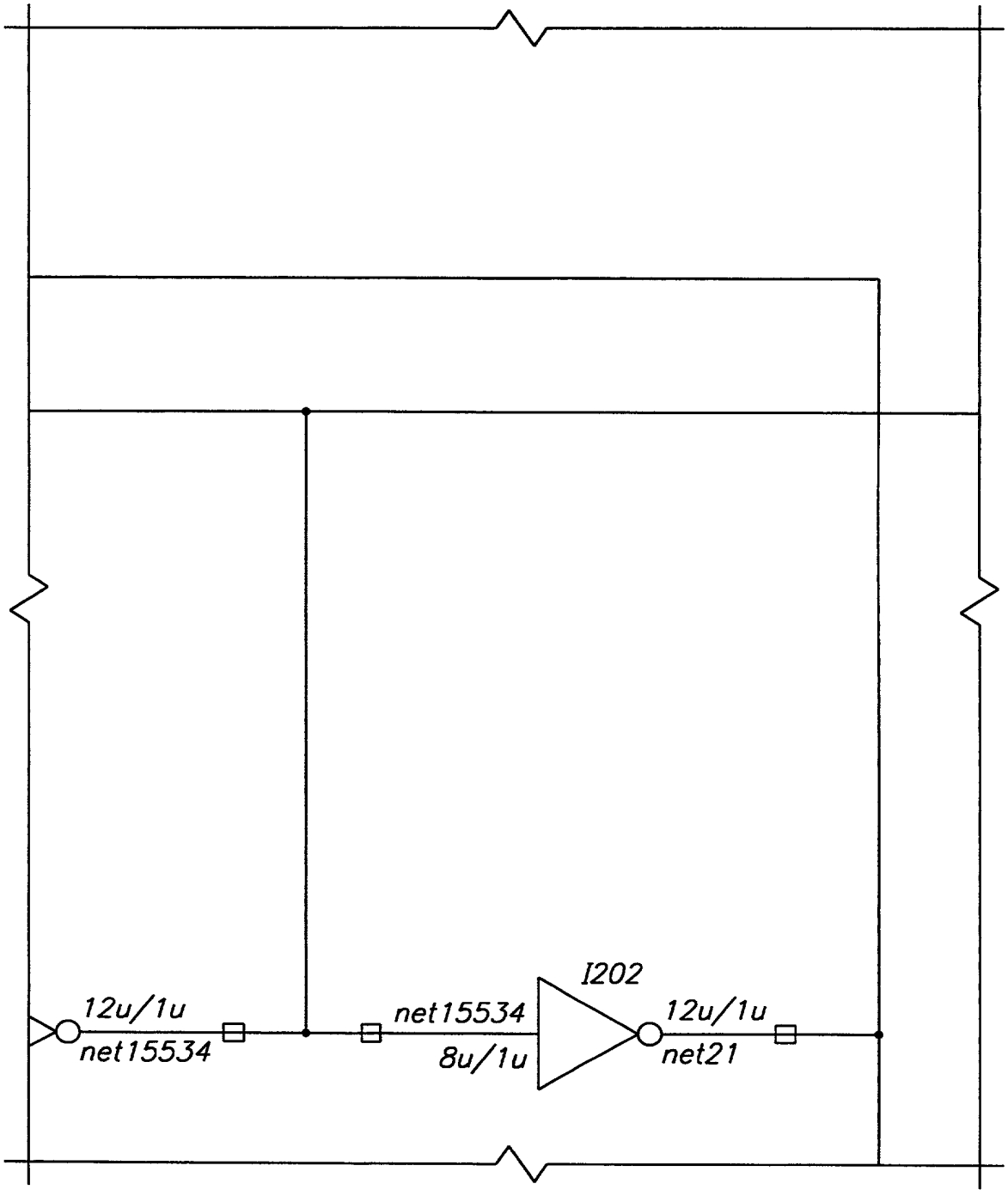


Fig 8.10.10.F8

US6252565 - 05.26.01

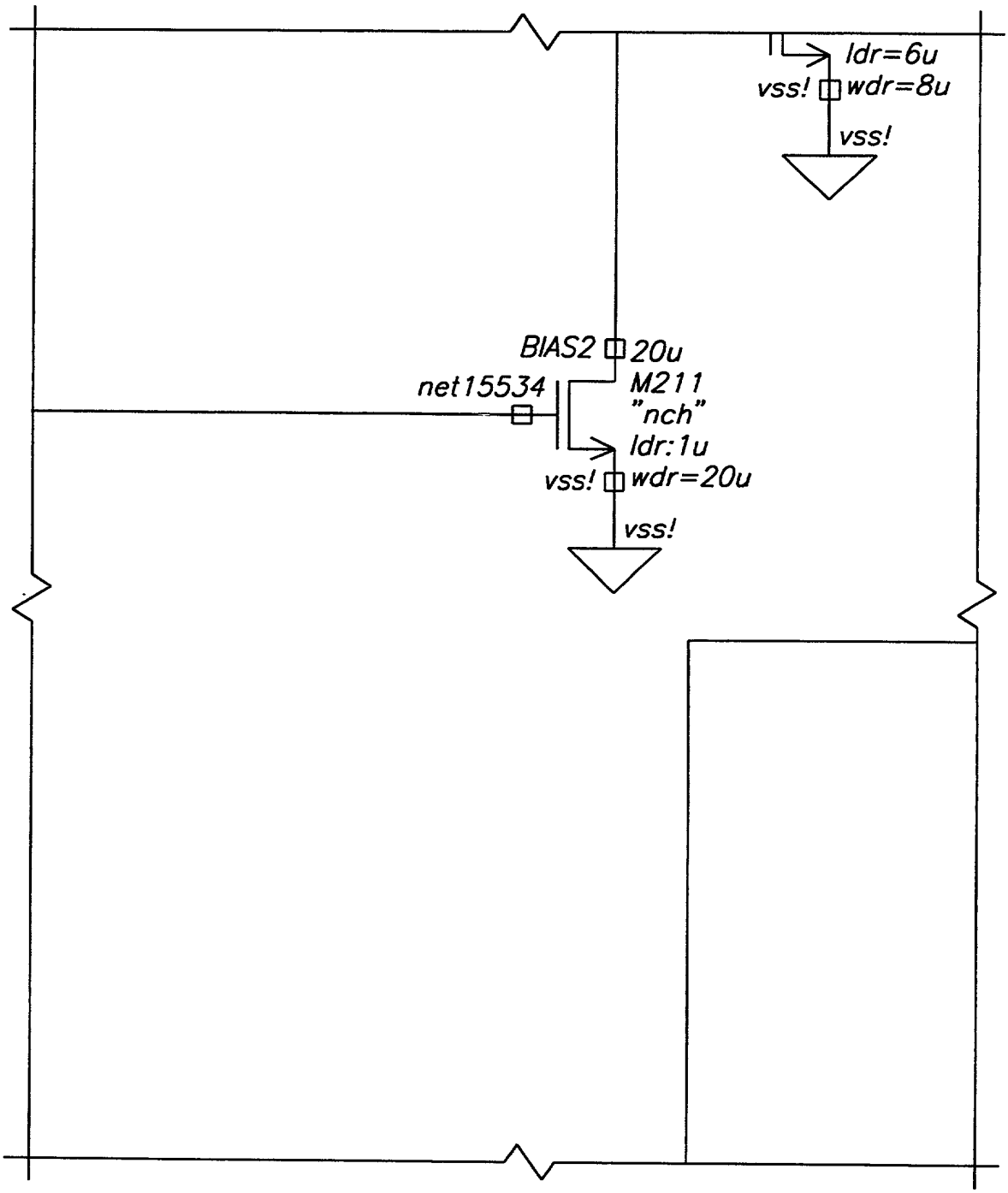


Fig 8.0100FC

US20020196594A1

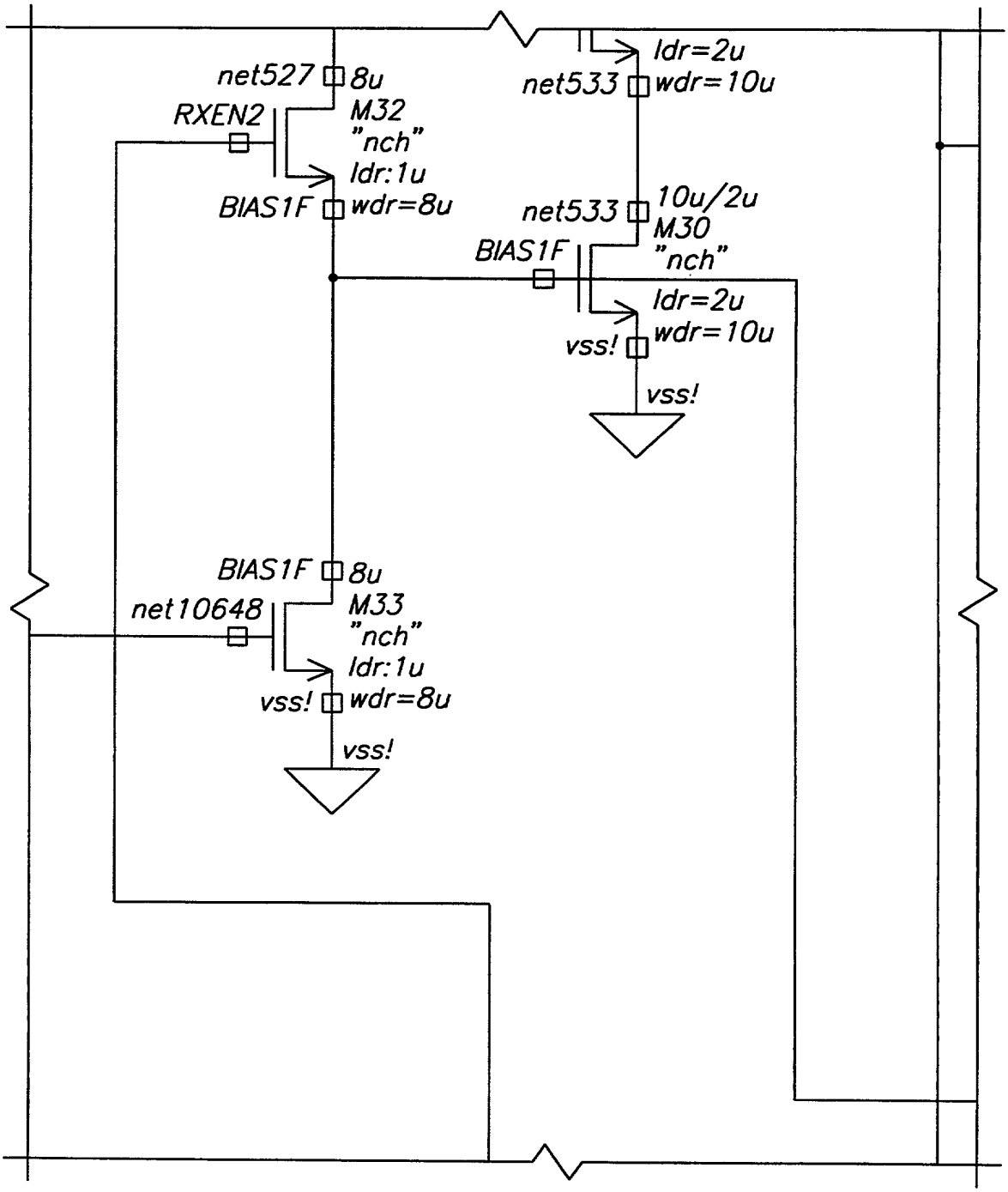


Fig 8.0107F

US6252454

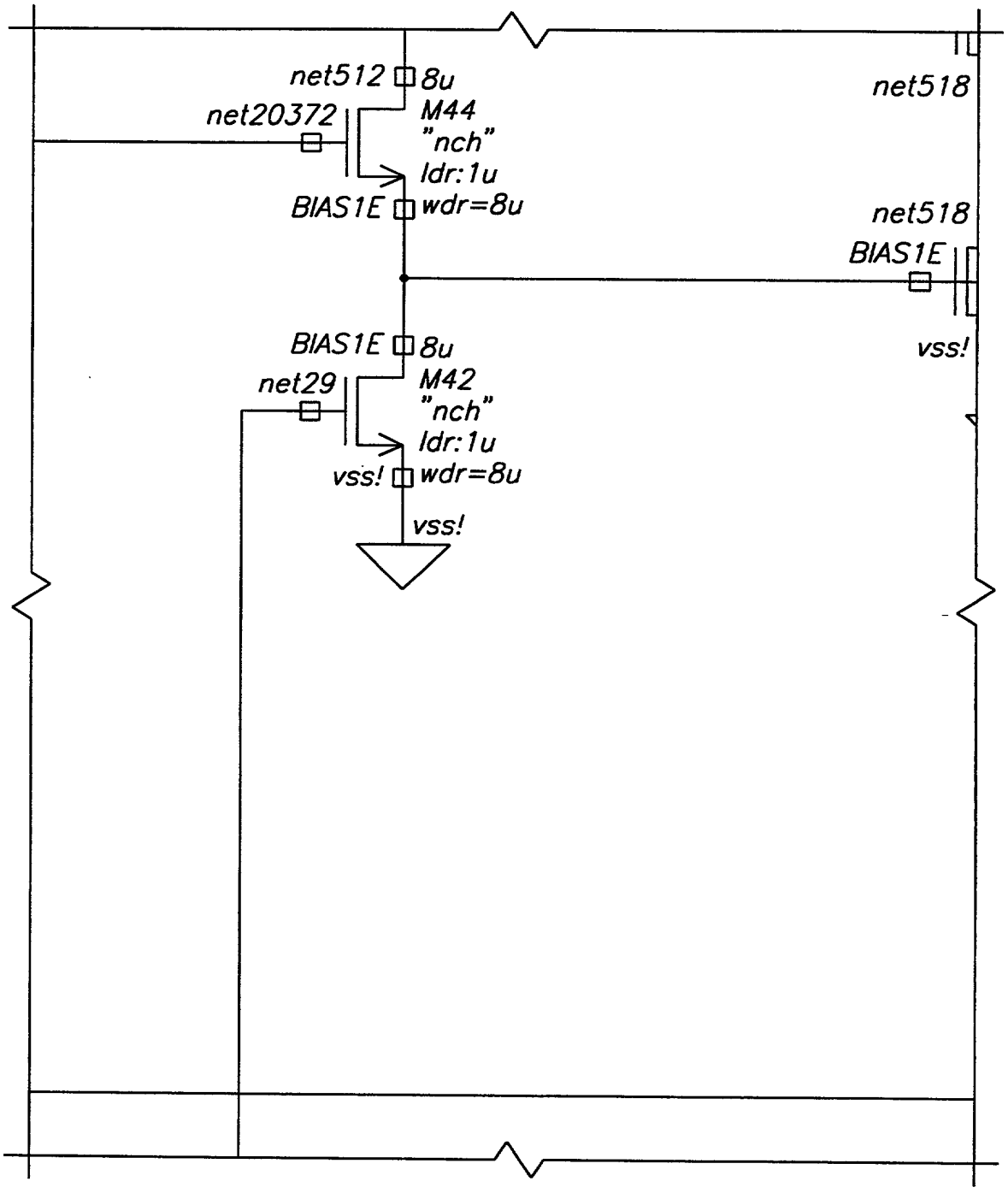


Fig 8.0110fe

US6252453

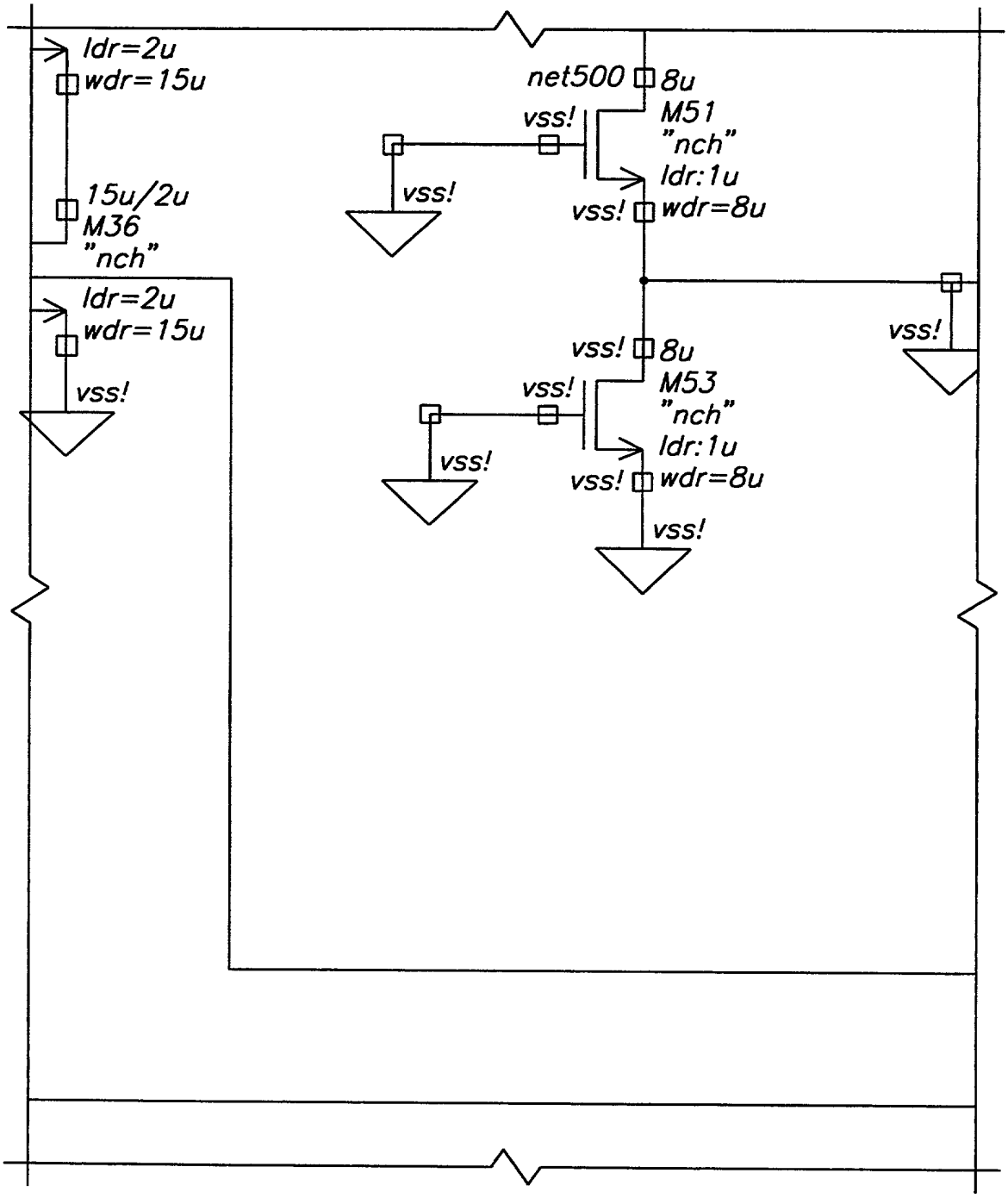

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wdr=15u
vss!
vss!
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ldr:1u
vss!
wdr=8u
vss!
vss!
vss!
8u
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"nch"
ldr:1u
vss!
wdr=8u
vss!
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vss!

Fig 8.0107F

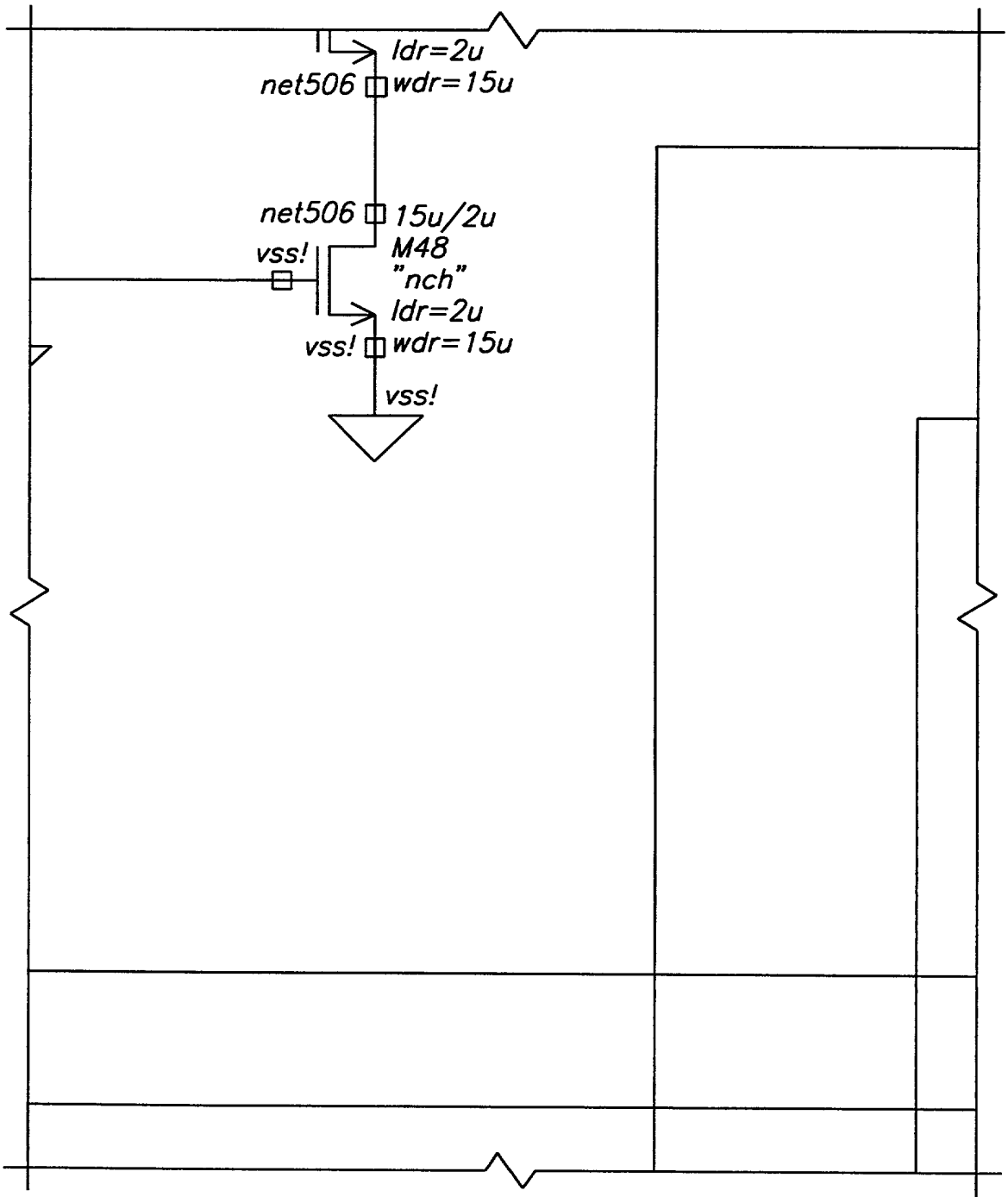


Fig 8.0107G

Patent - US 7,952,952

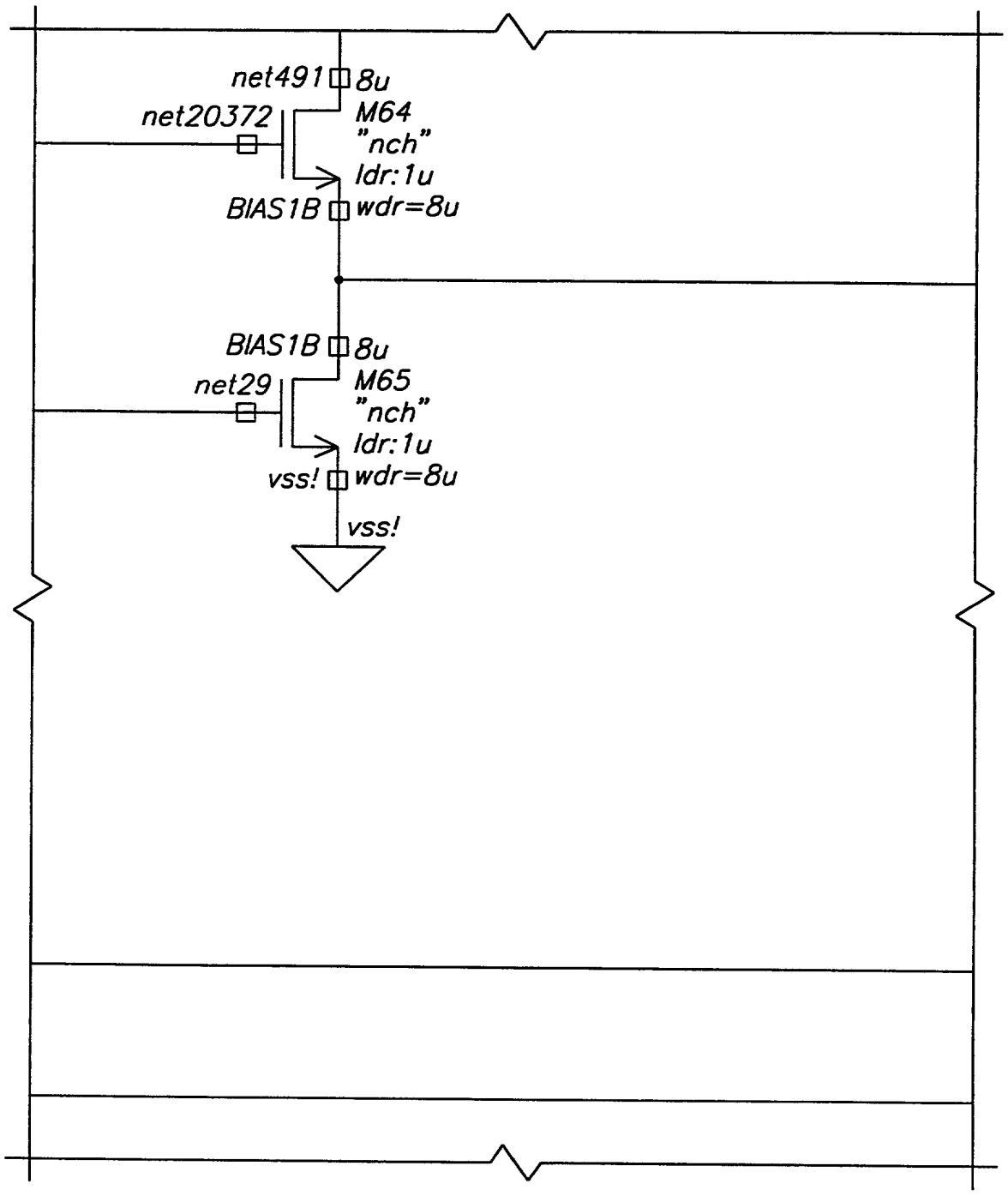


Fig 8.0107FH

US6252953-051101

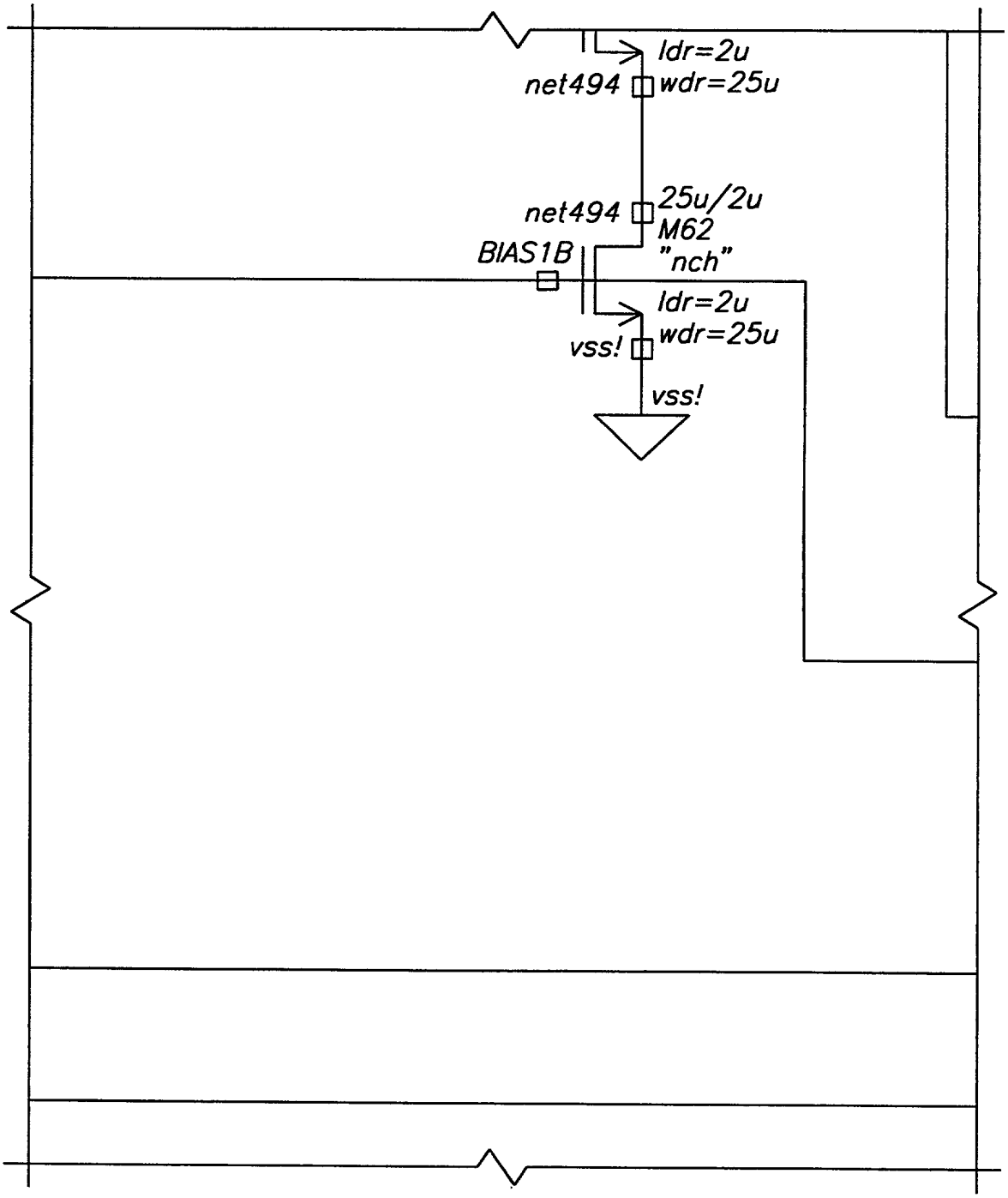


Fig 8.0107F

US6262600B1

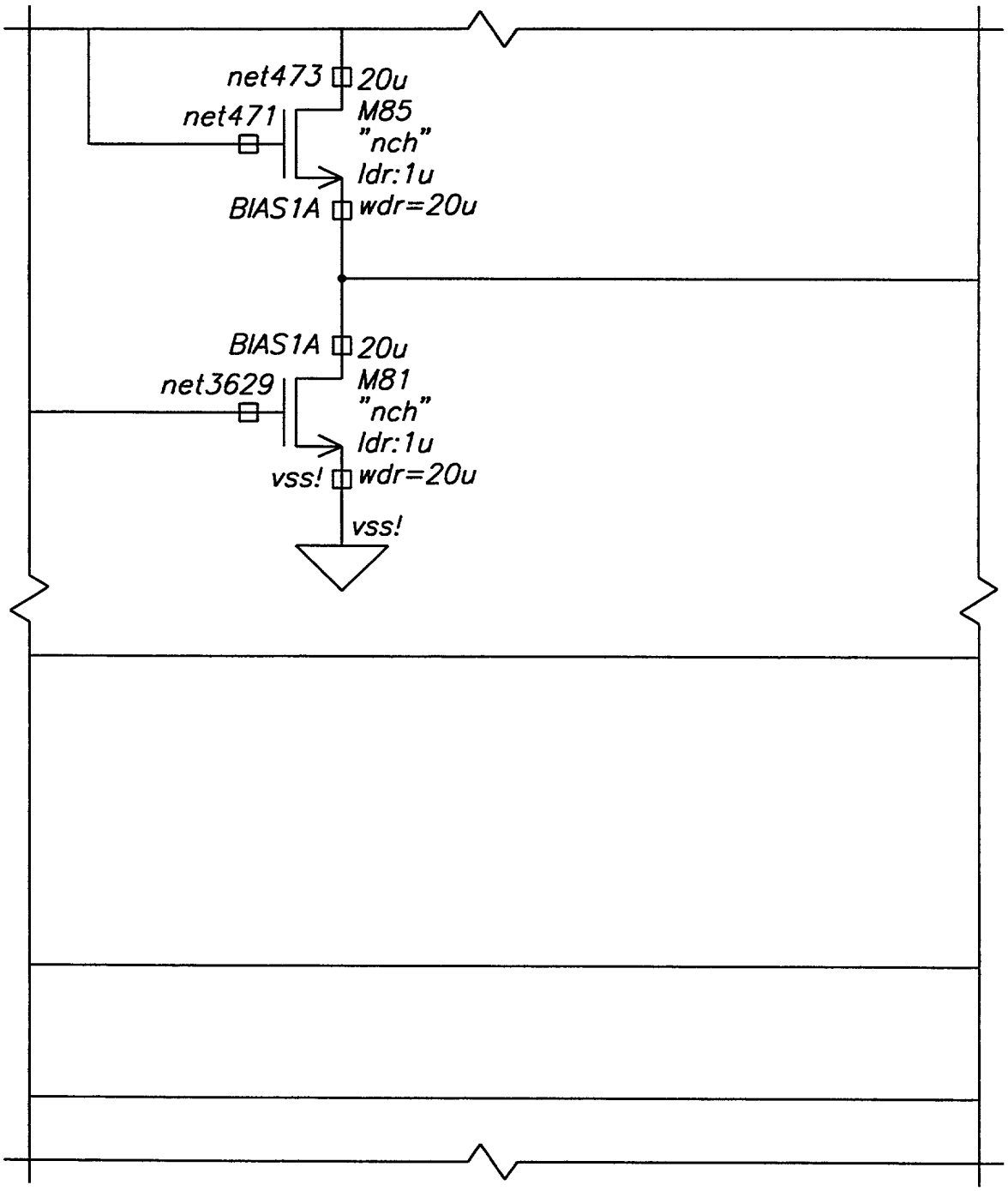
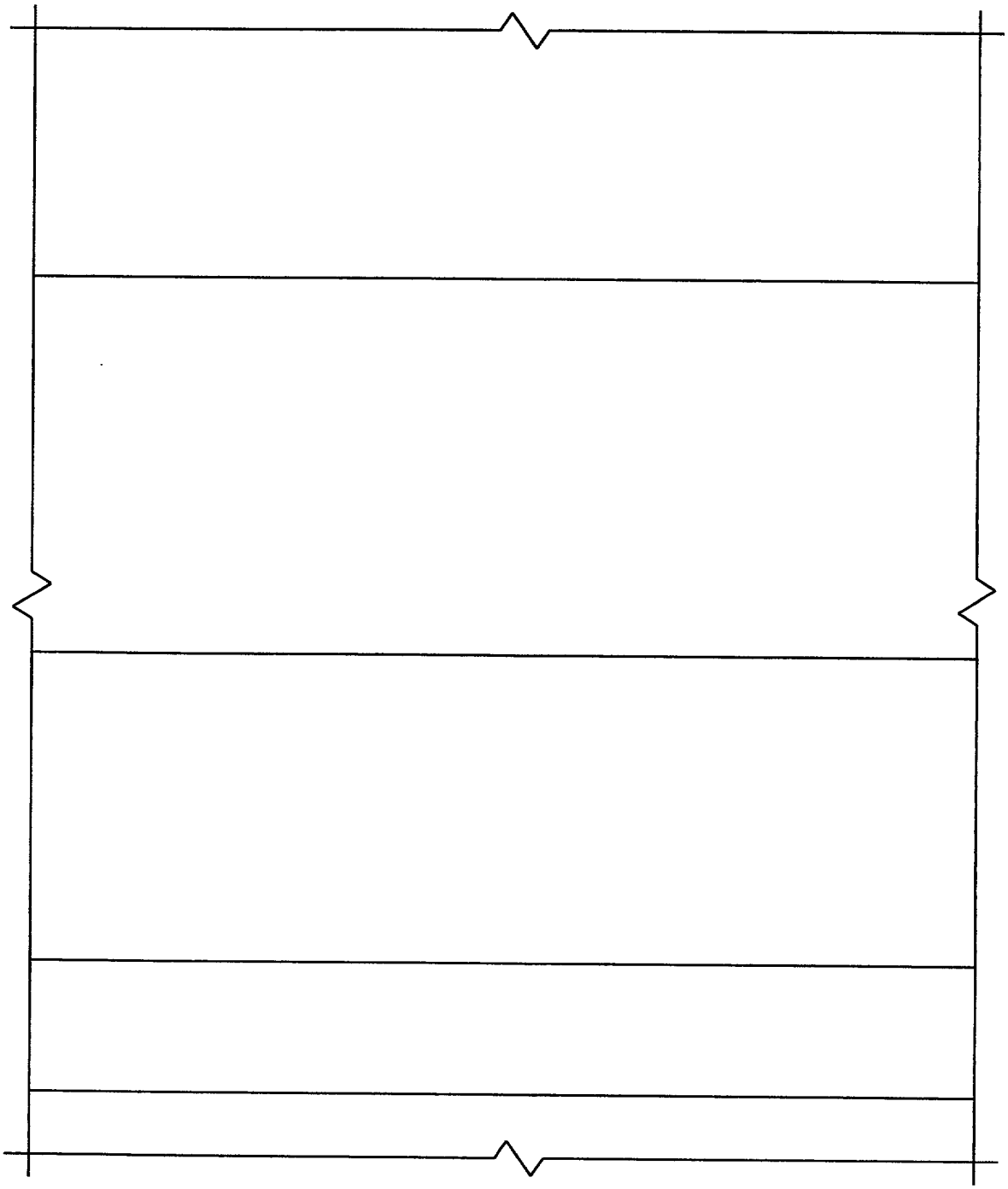


Fig 8.0107fJ

US 7,952,952 B2



Лист 8.0107КЖ

Перепечатка без разрешения

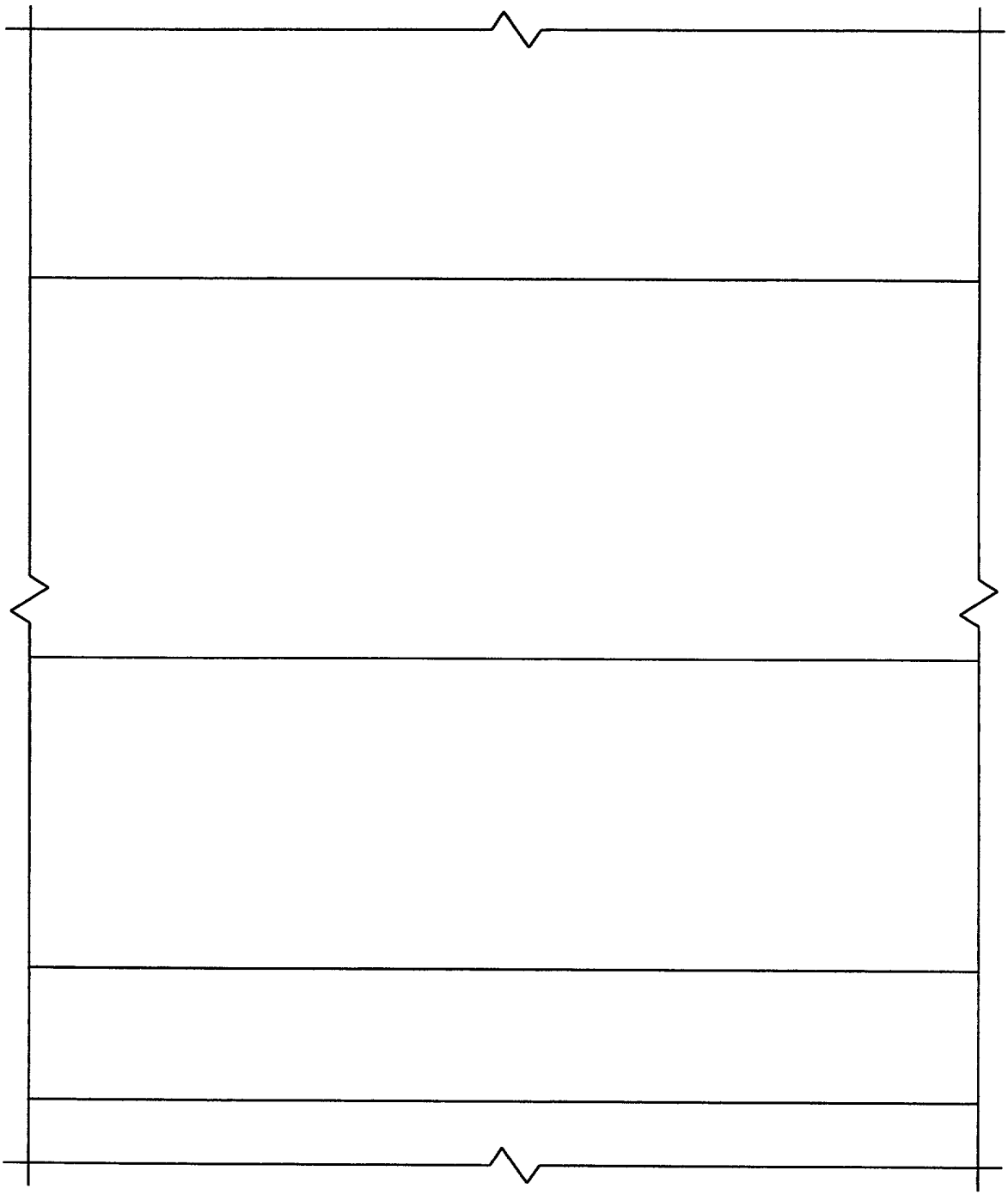


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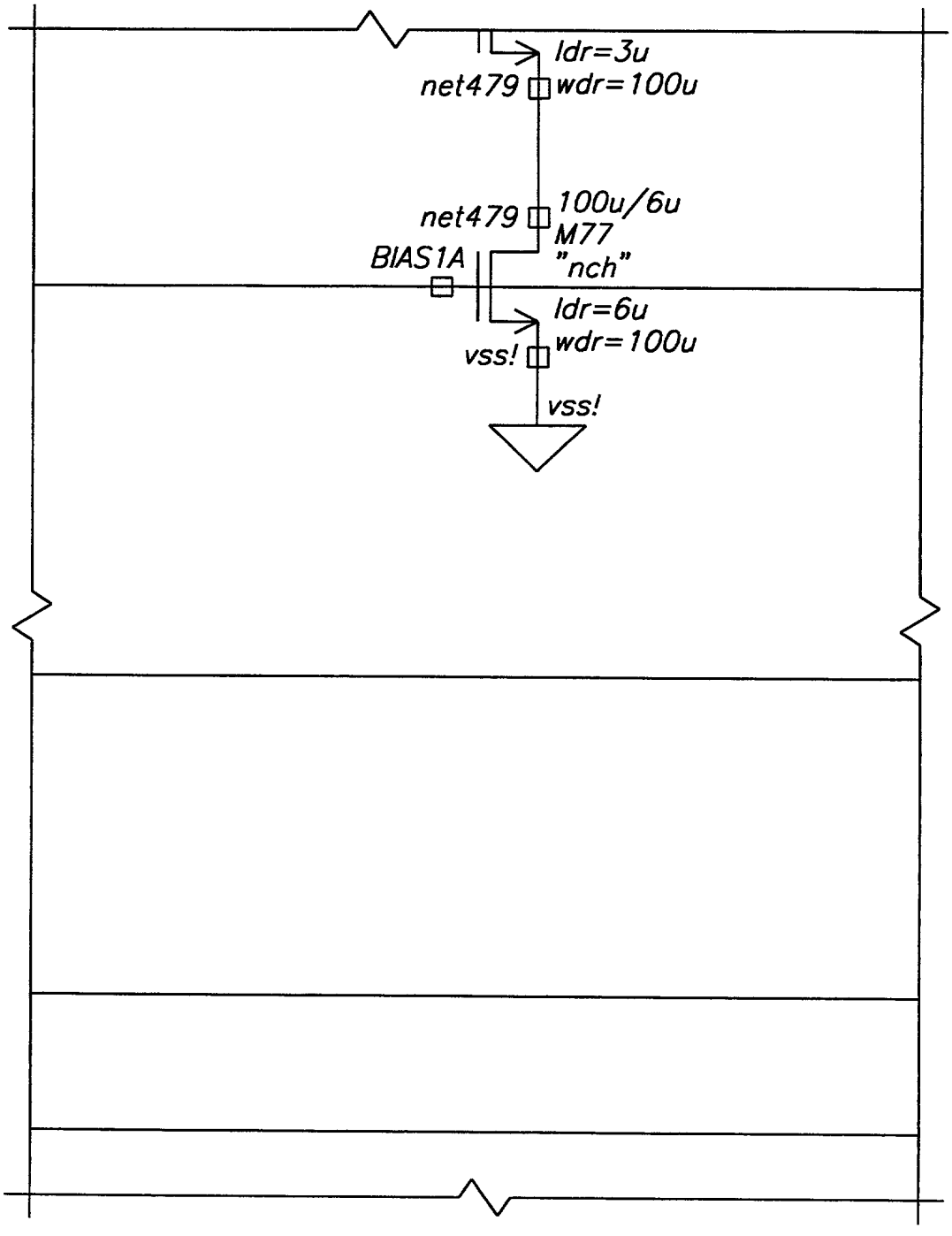


Fig 8.10.1.F.M

US6262595 - 09-17-2001

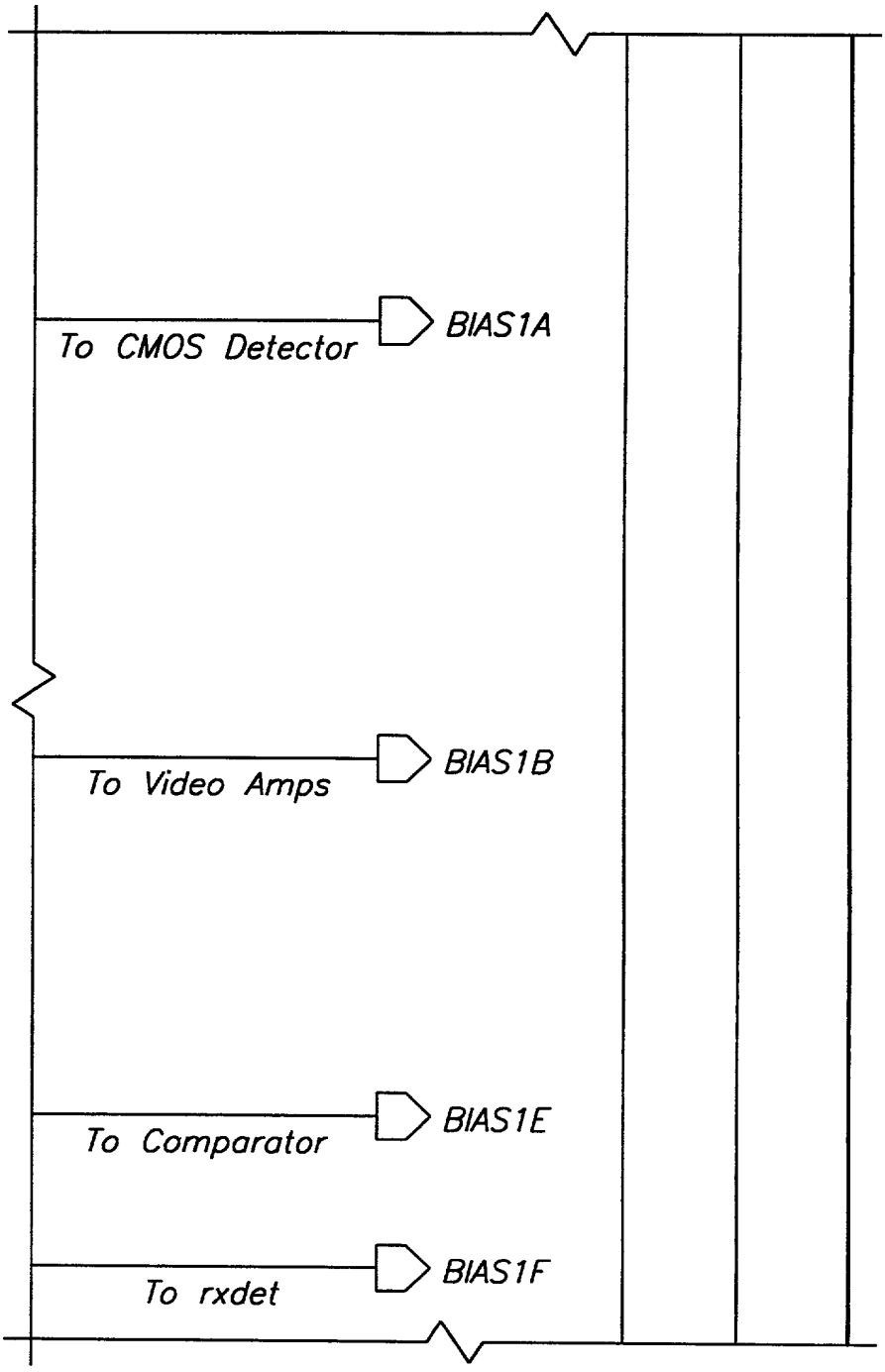


Fig 8.0110IN

Document - 05/14/04

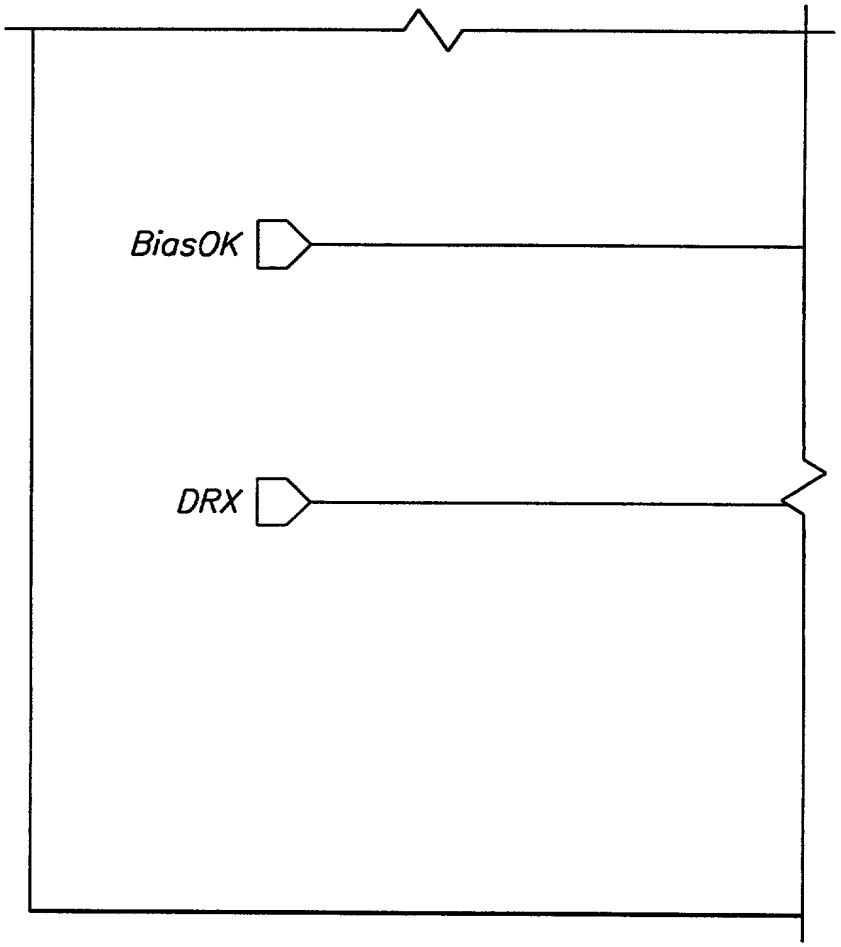


Fig 88.0100A

US7782965 - 05-17-10

Confidential - 5/22/2009

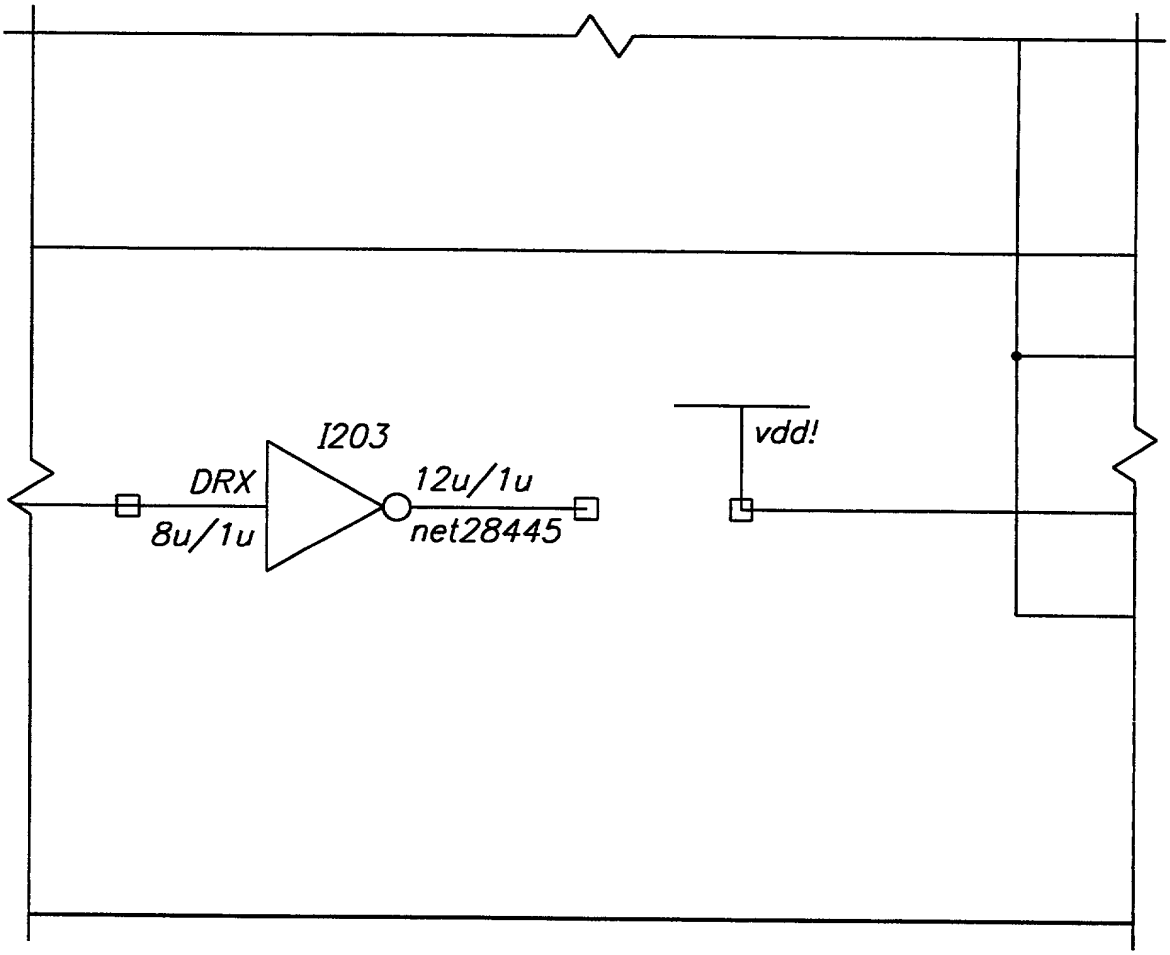


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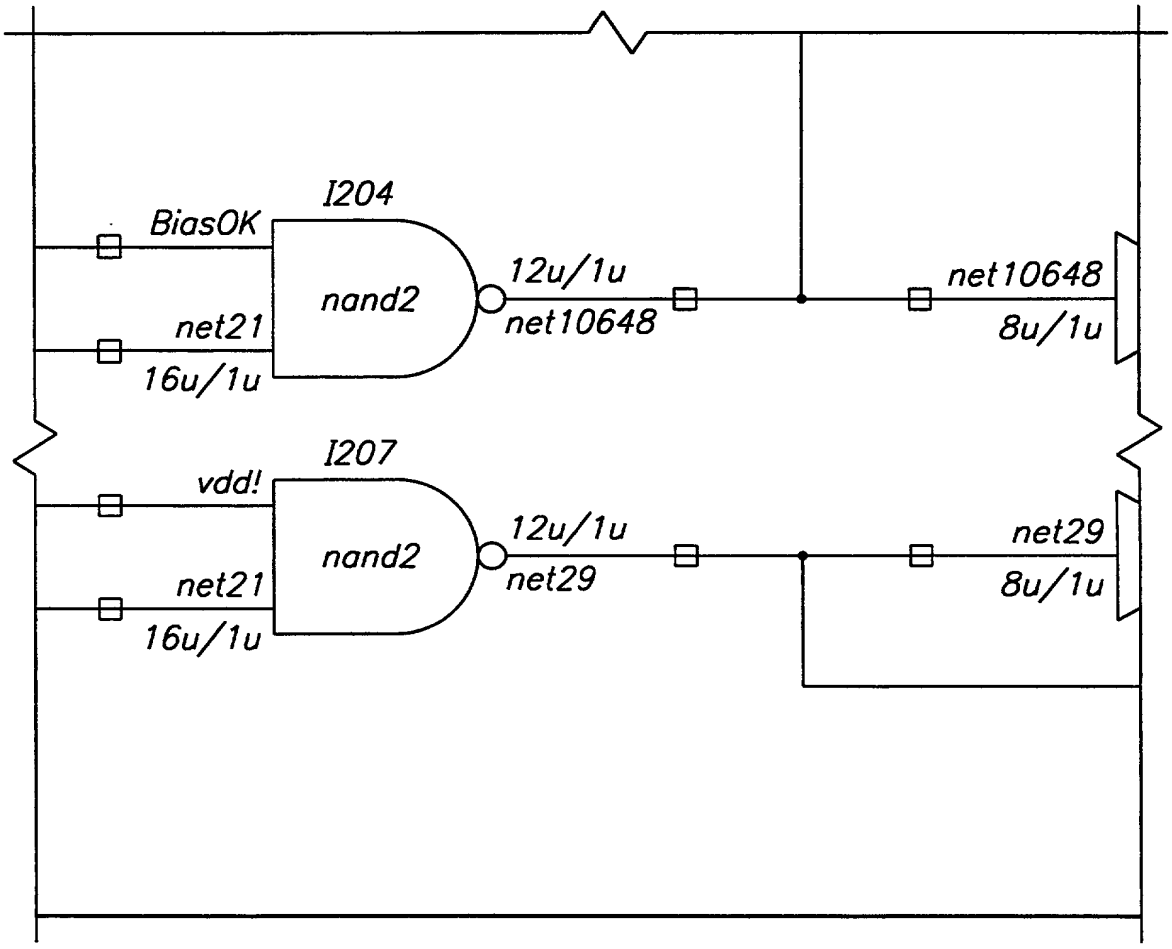

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net10648
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12u/1u
net29
net29
8u/1u

Fig 8.0100

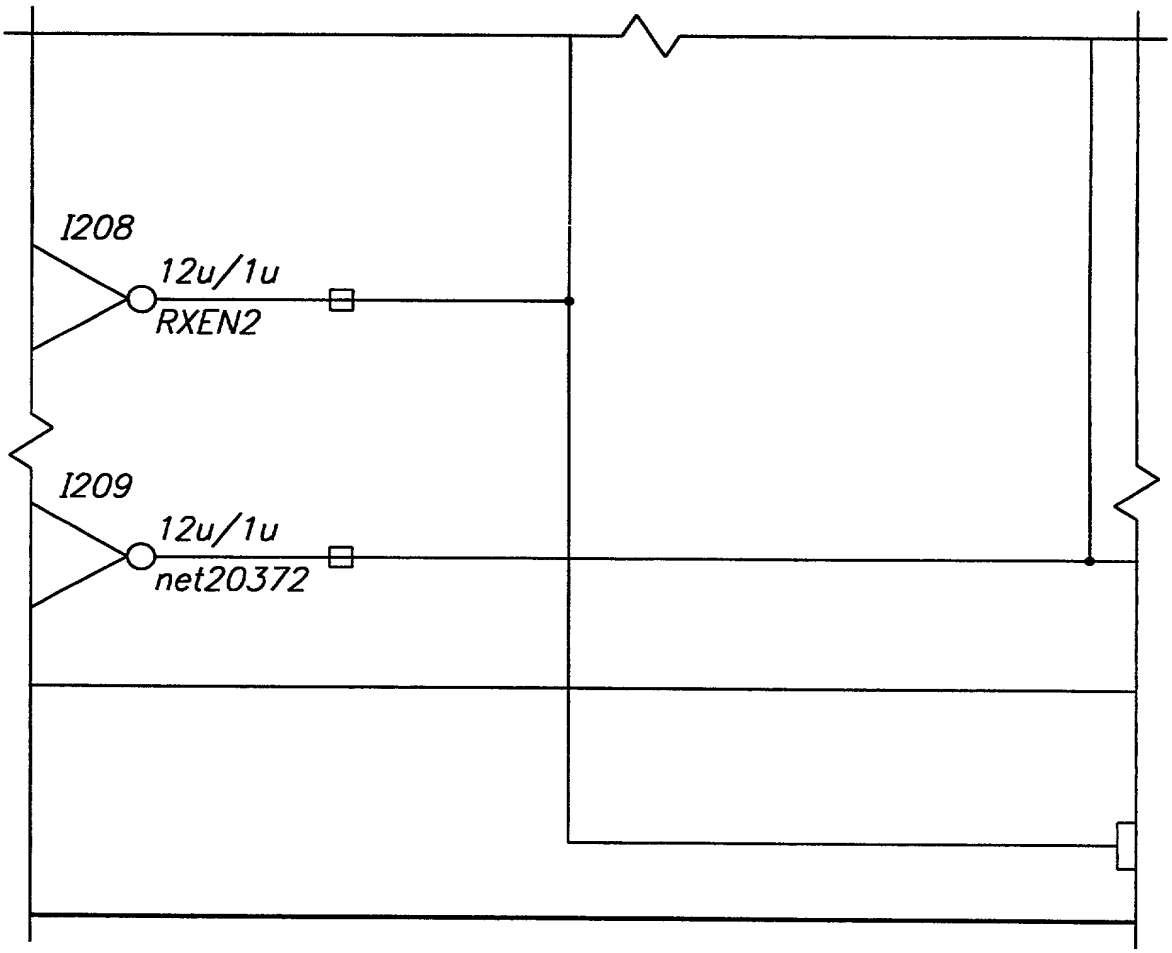


Fig 8.0107160

US6262594 - 06-17-2001

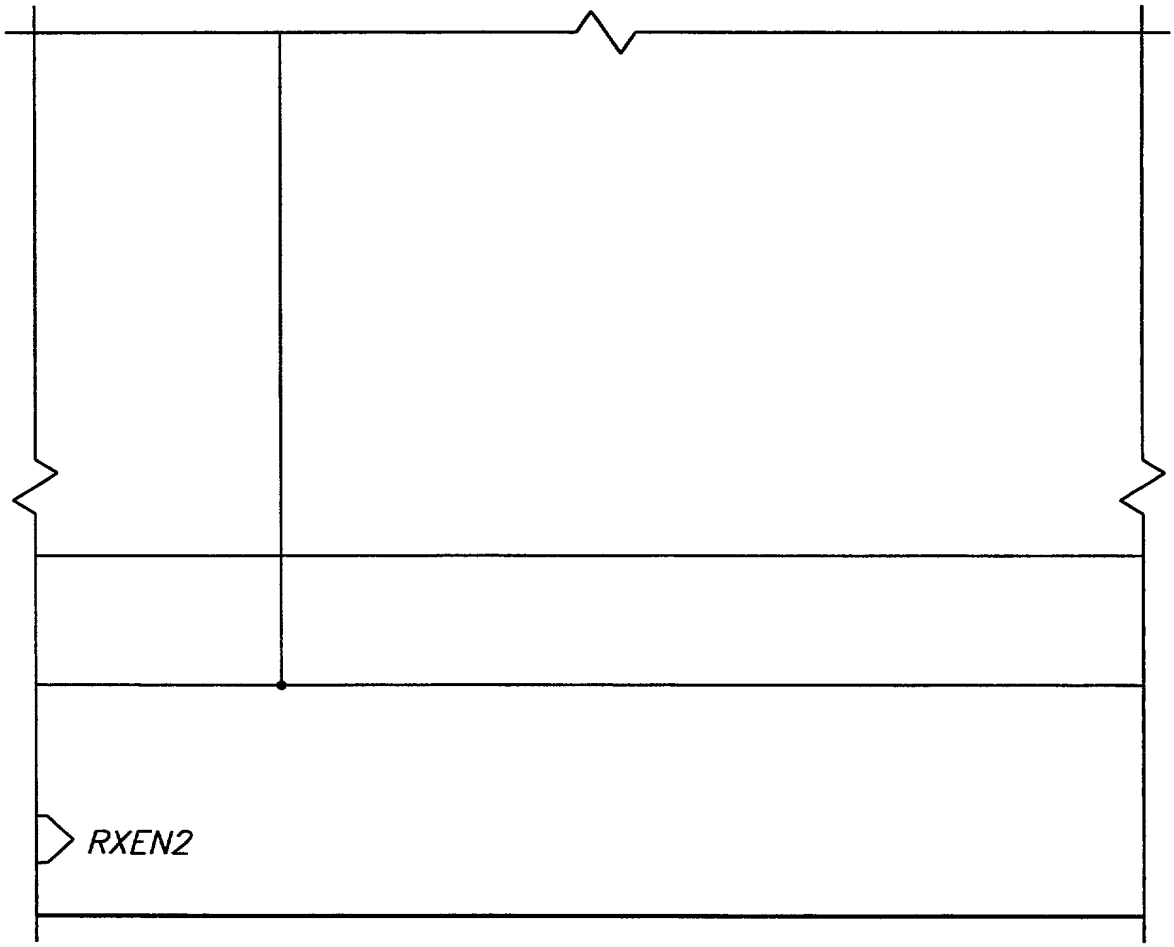
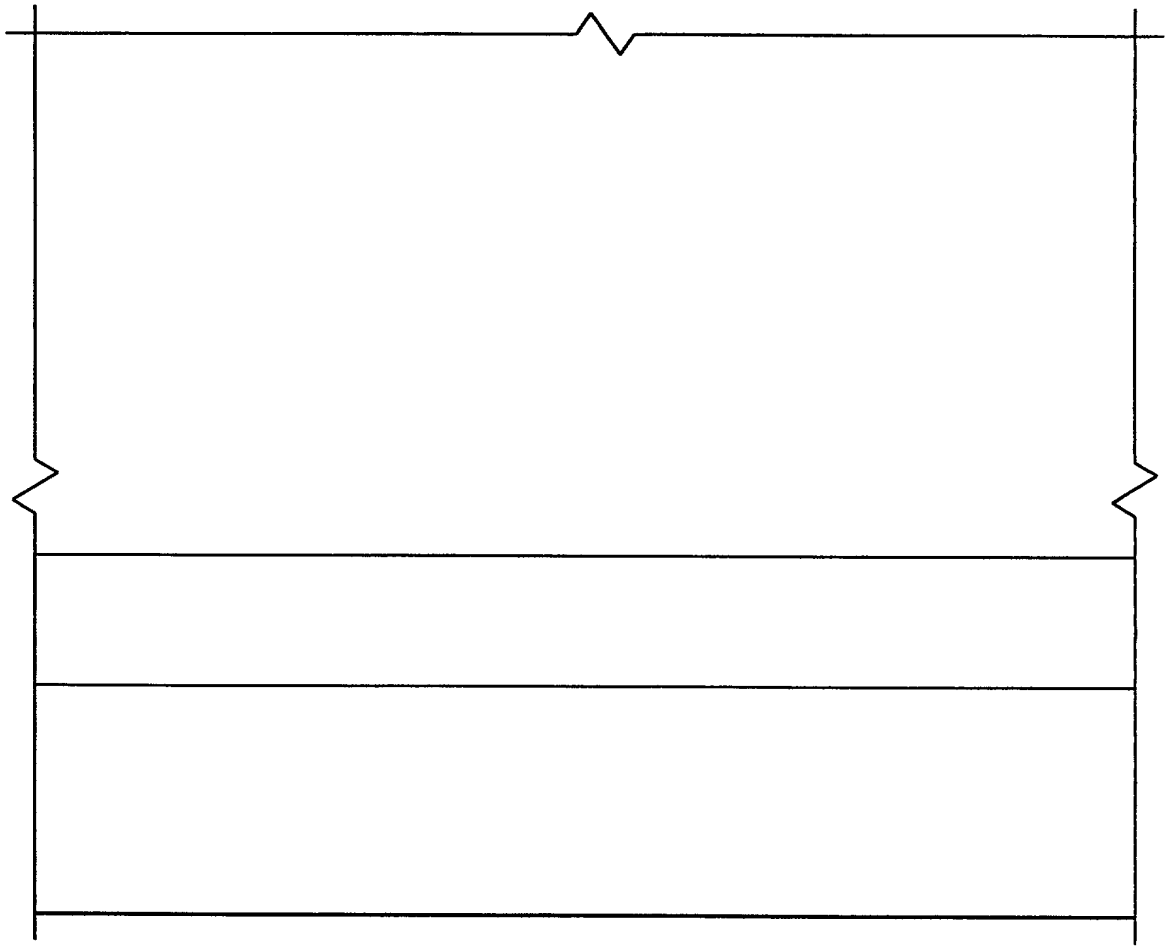


Fig 88.0107.06E

US6256259B1



Ед 88.00106F

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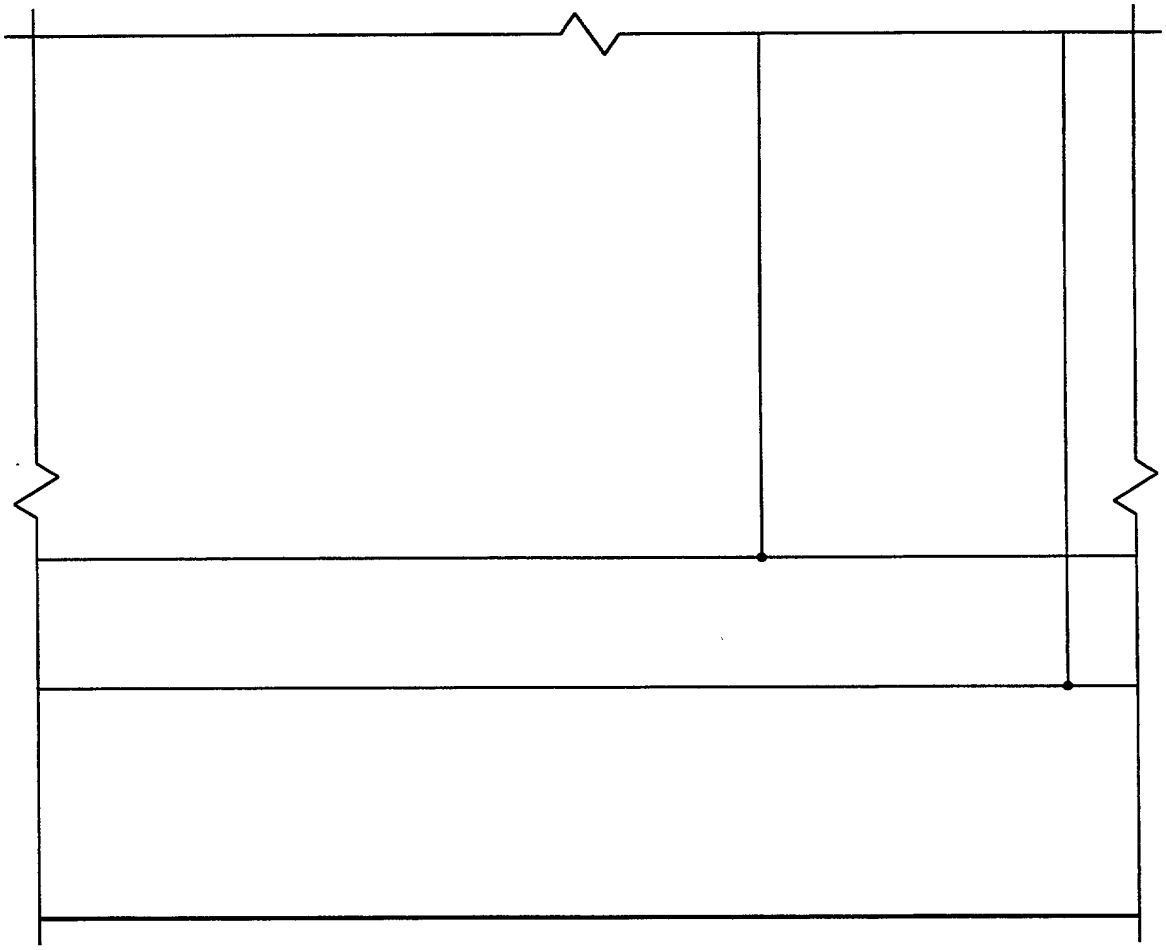
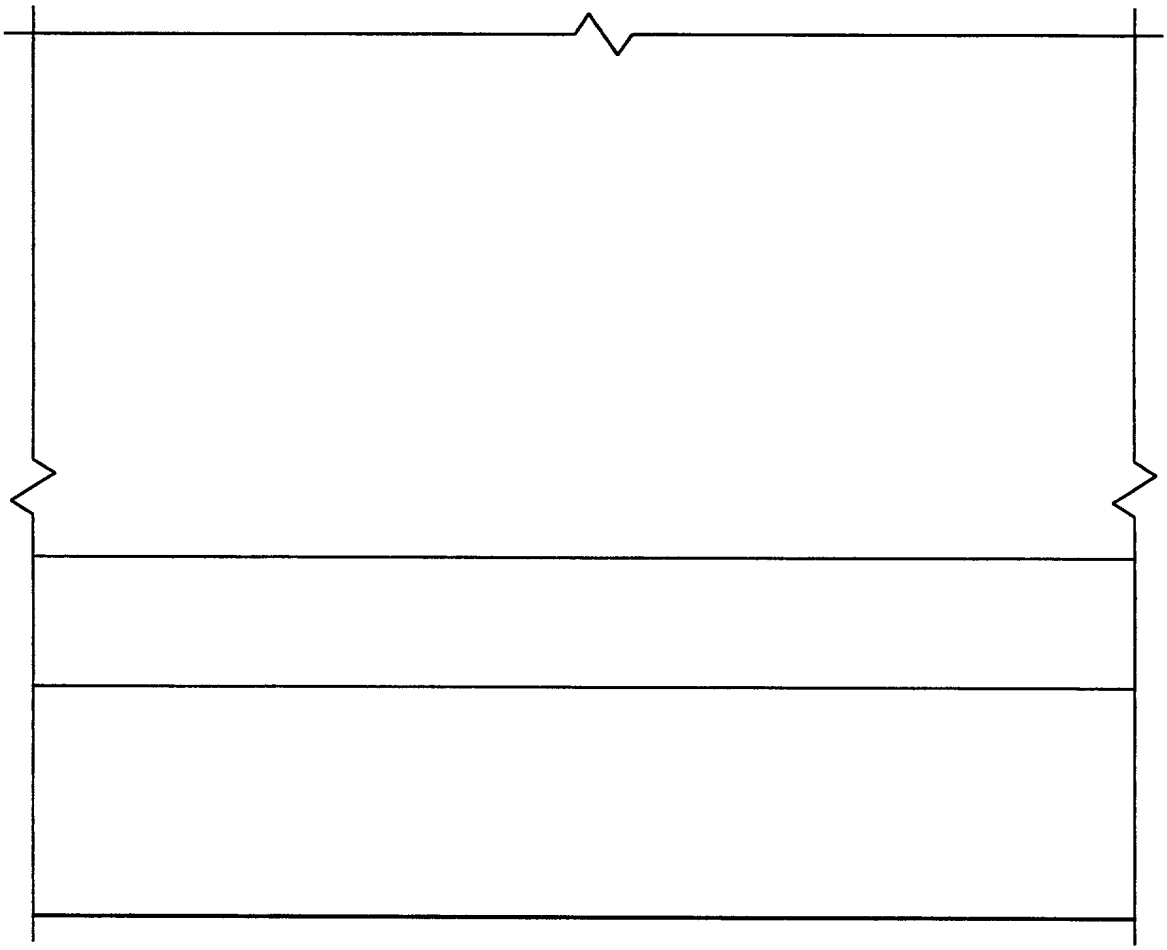


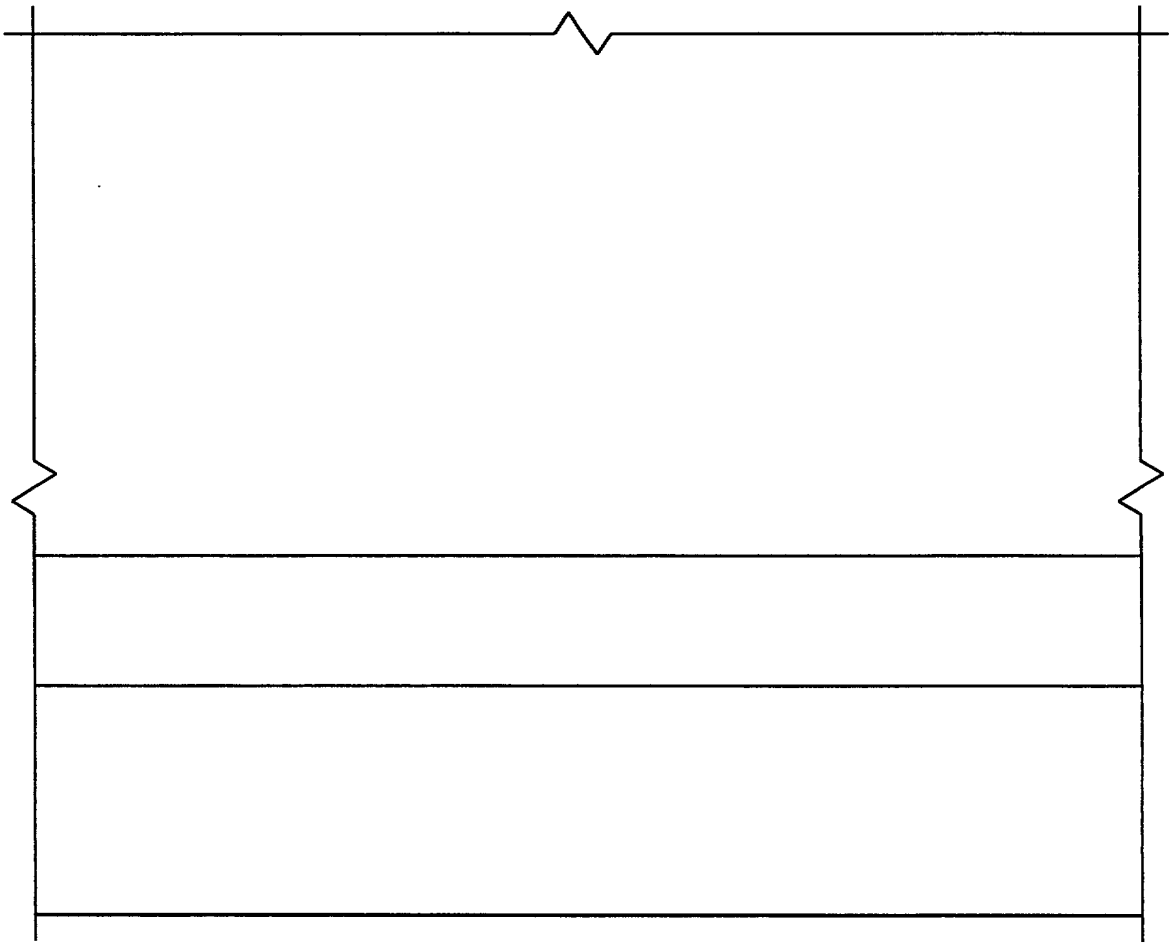
Fig 8.0107166

US6626504B2



Лд 8.0107БН

Электронный архив



Лист 8.001071611

Электронный архив

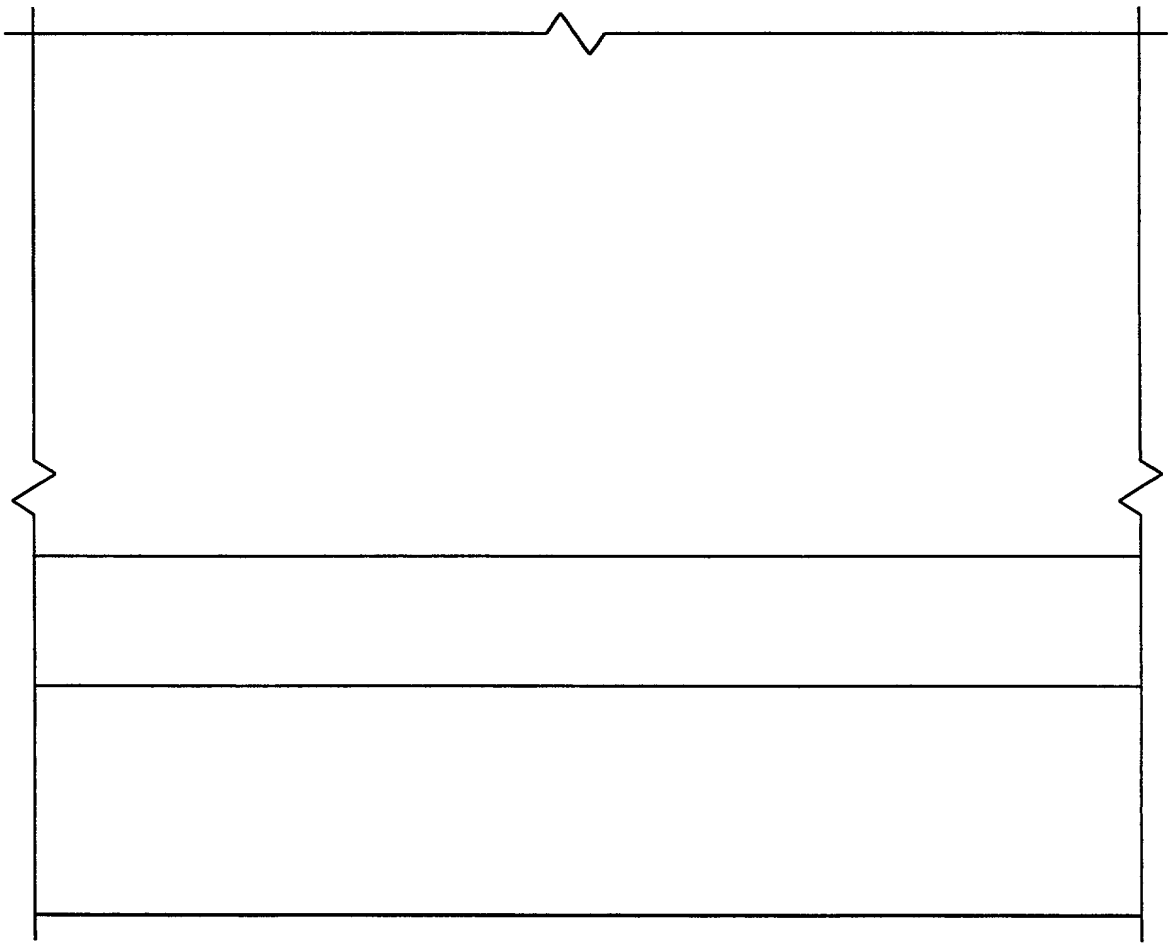
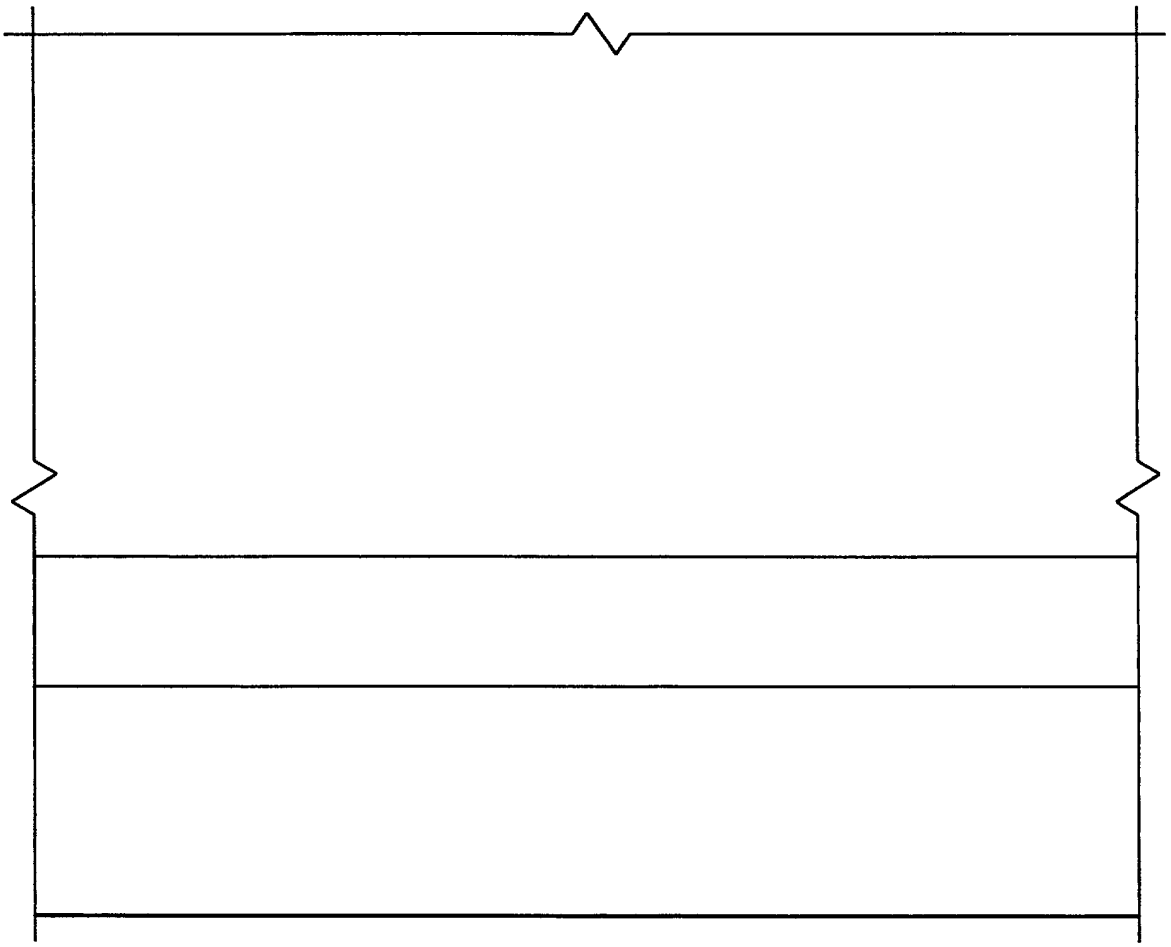


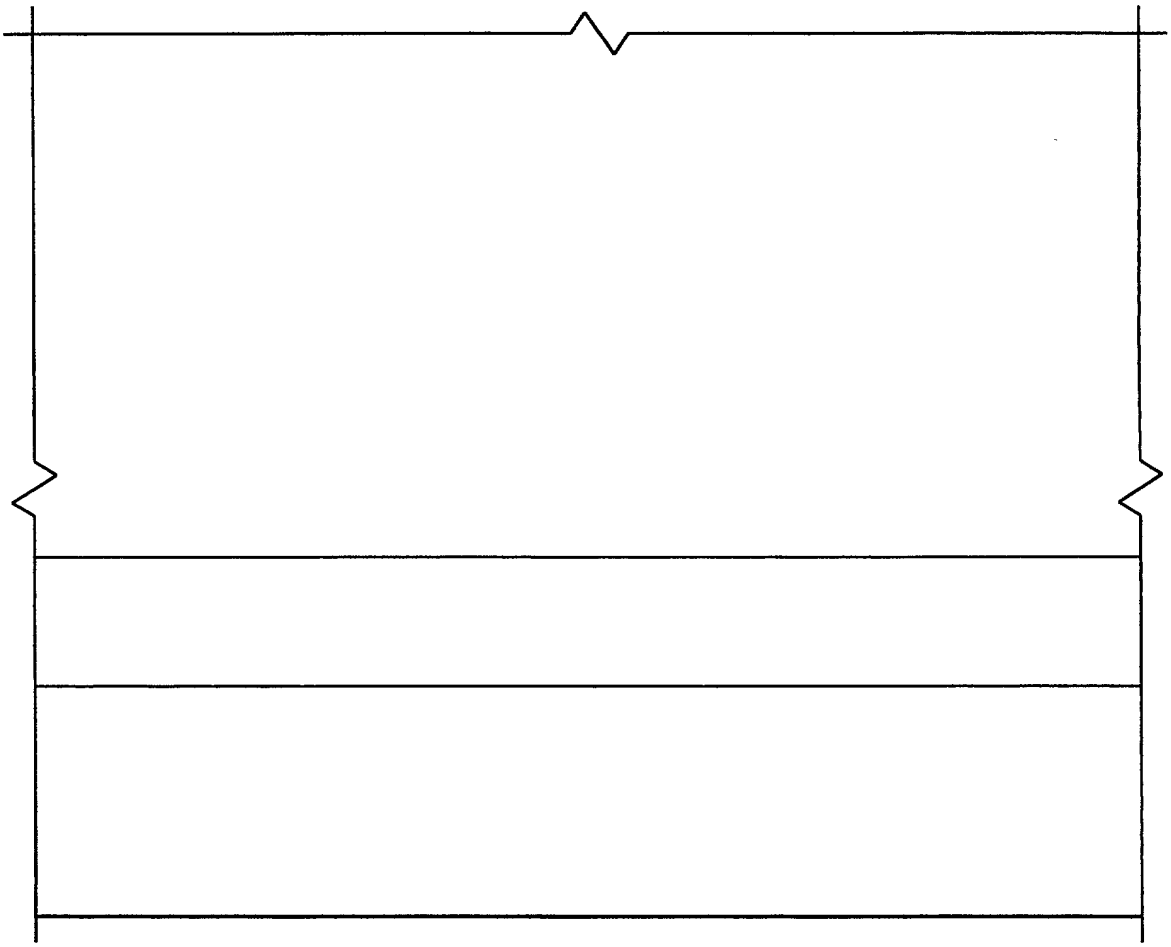
Fig 8.0107(a)

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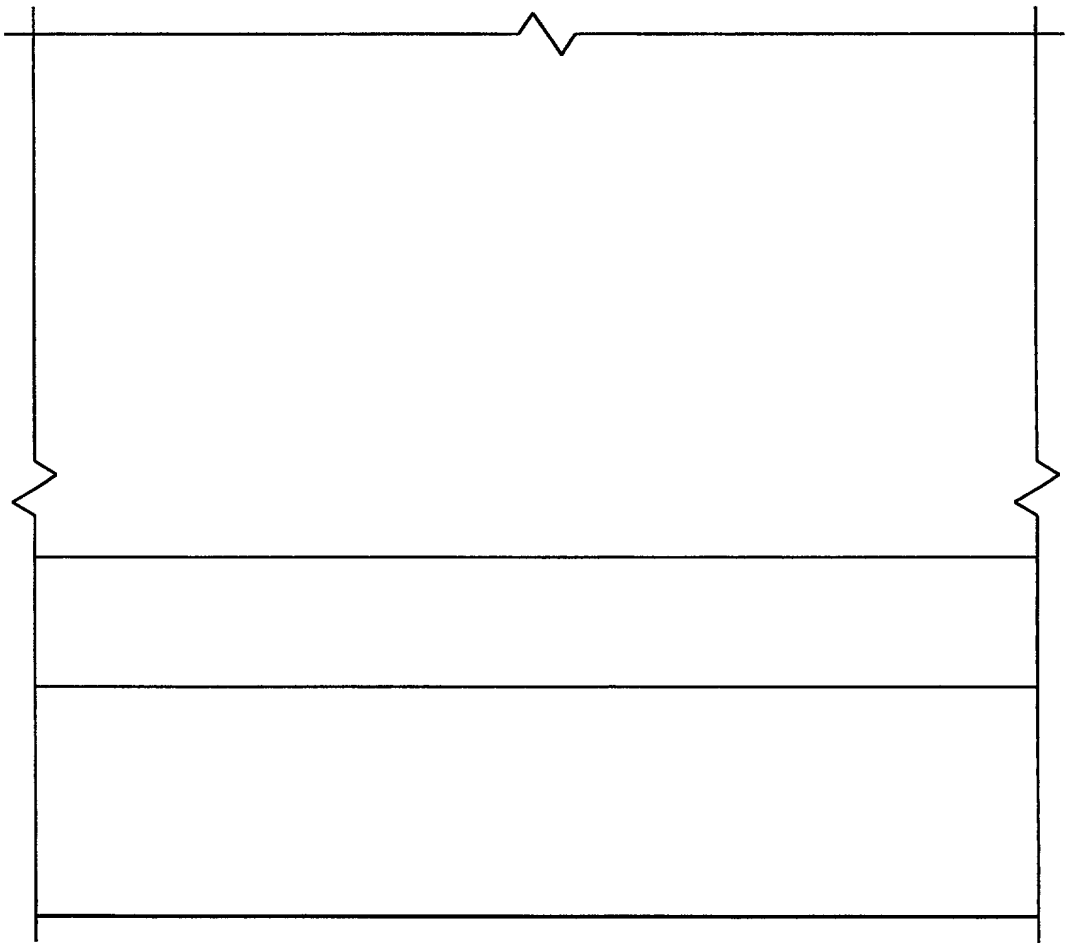
Инв. № подл. | Подпись и дата | Взам. инв. №

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Ед 88.00100160

0962959 - 0962959



Тип 8.0110116М

Альбом 8.0110116М

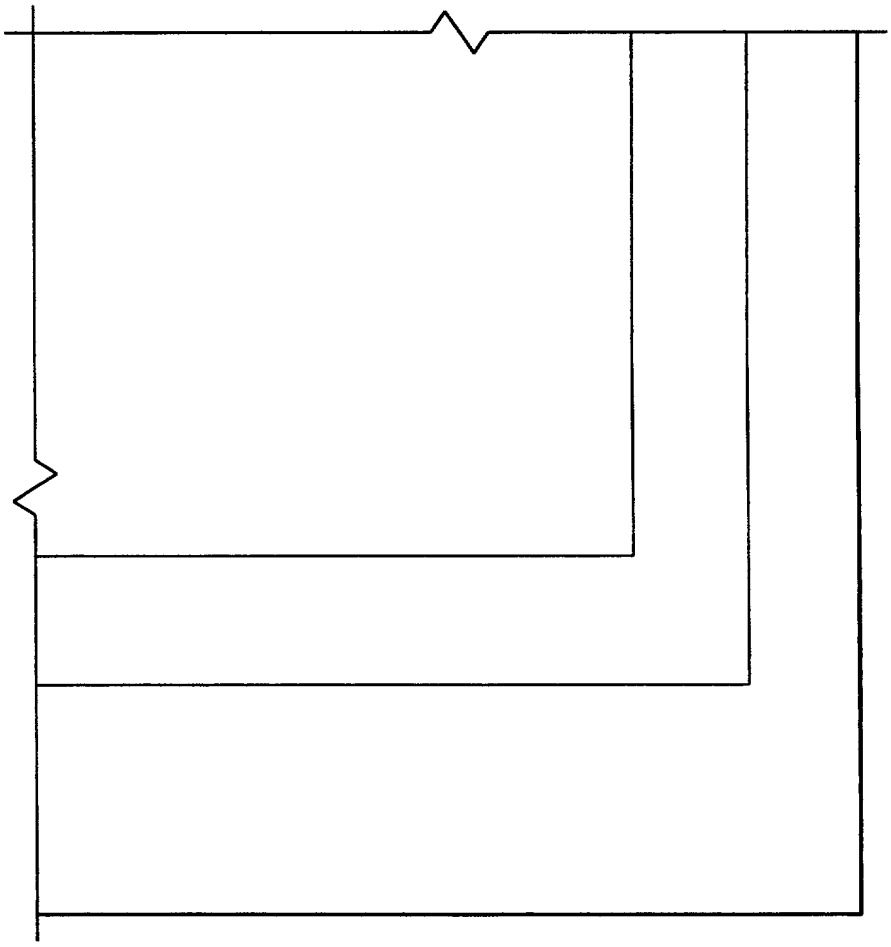


Fig 8.0107GN

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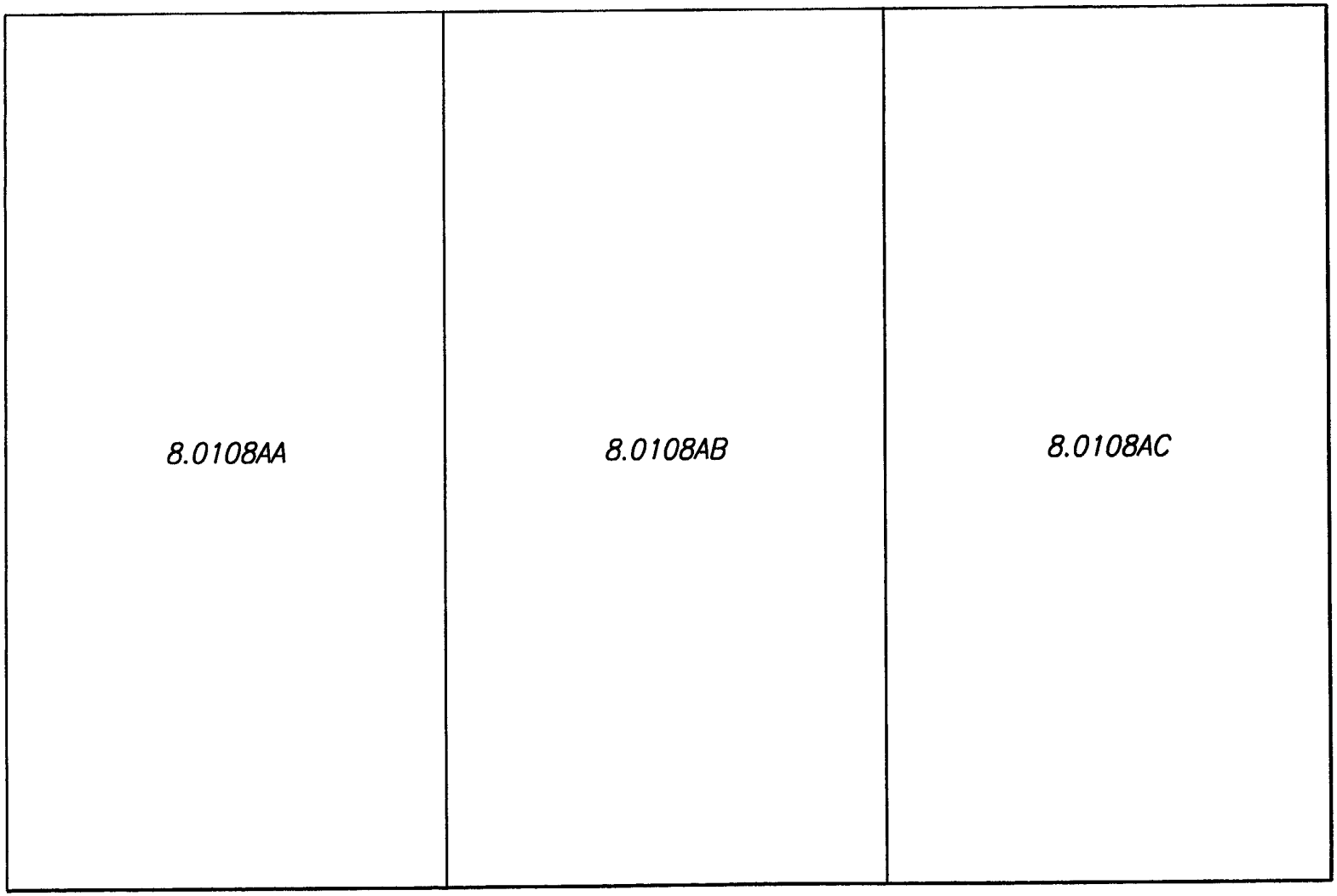


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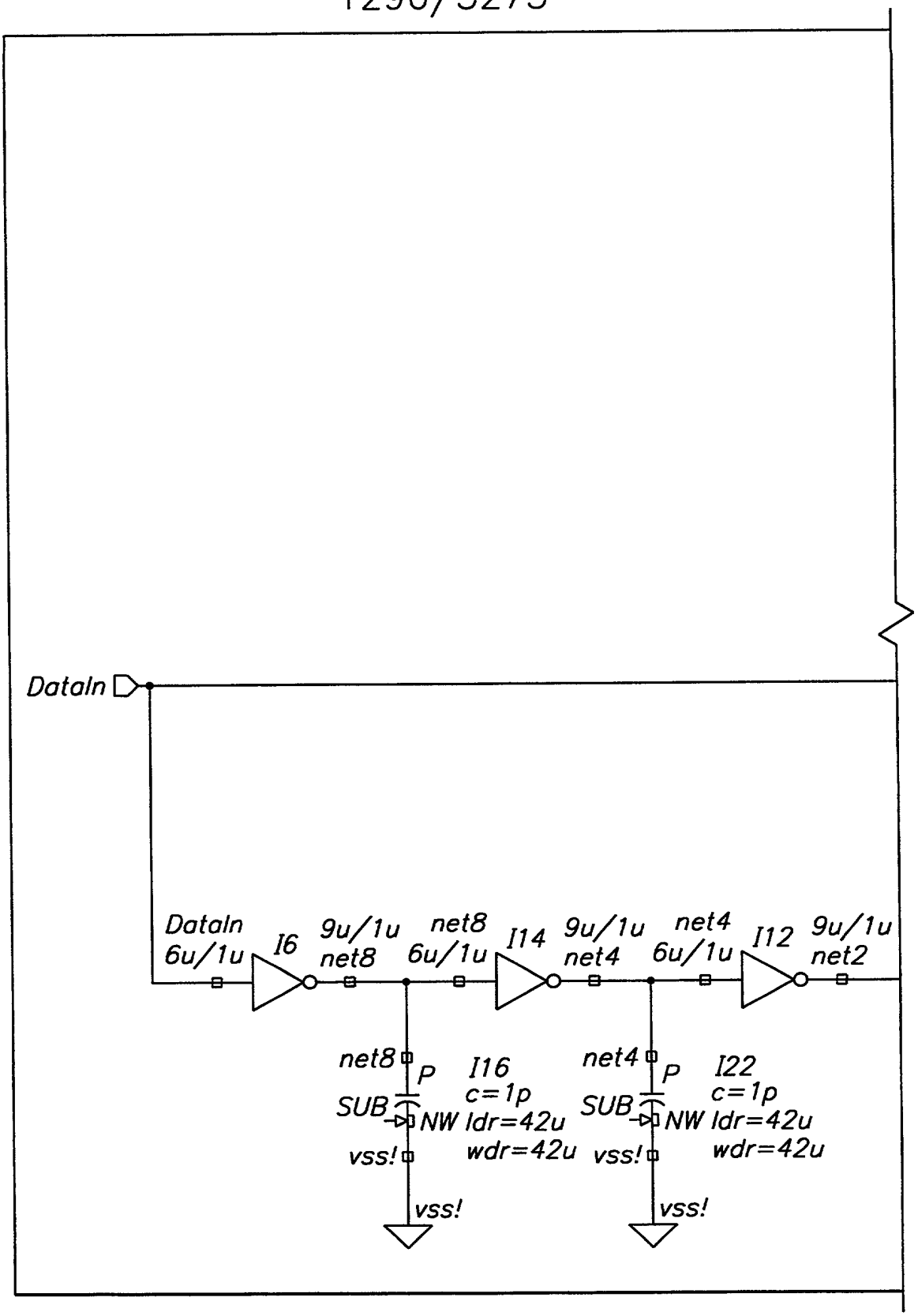


Fig 8.01080AA

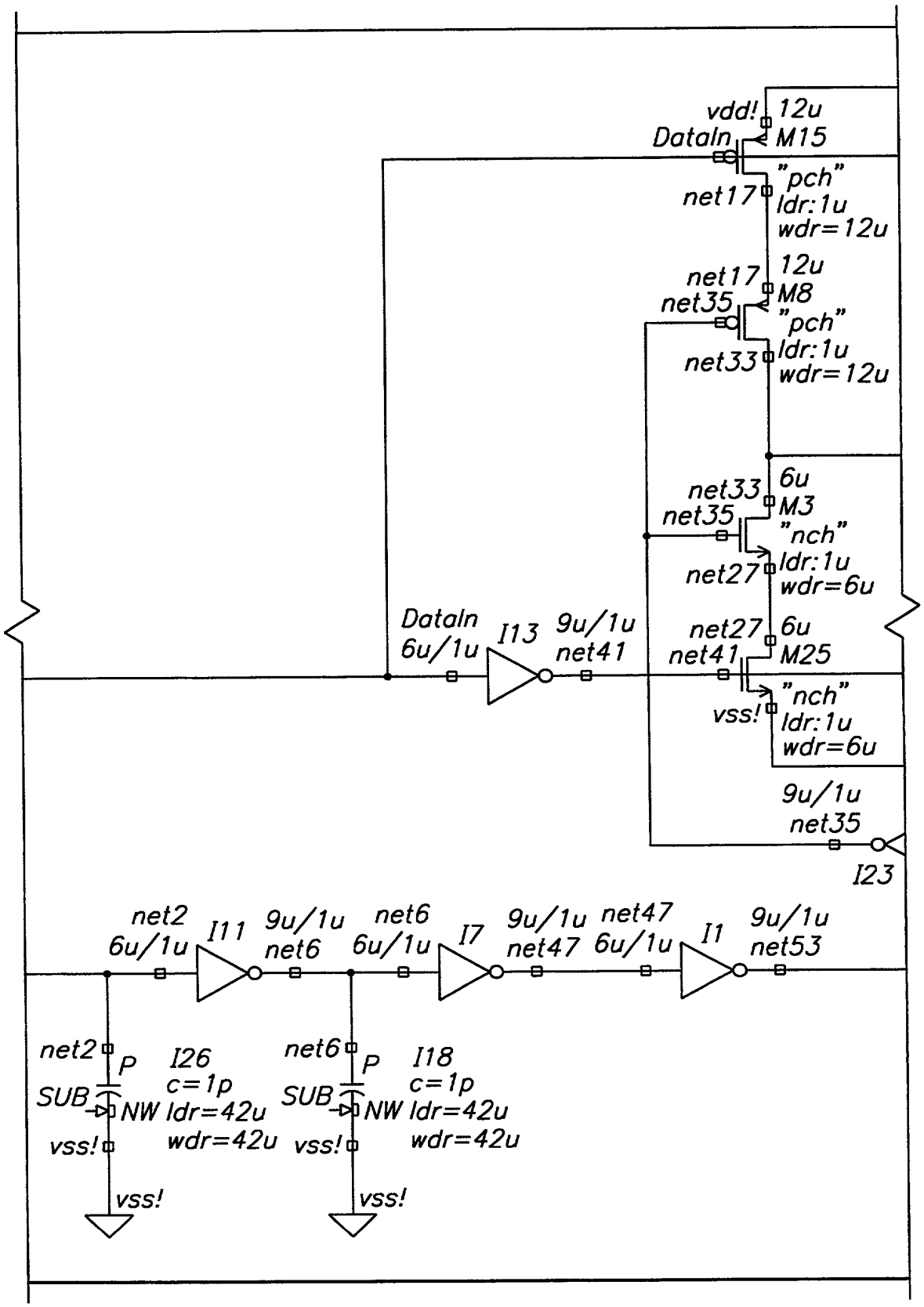


Fig 8.01.1088AB

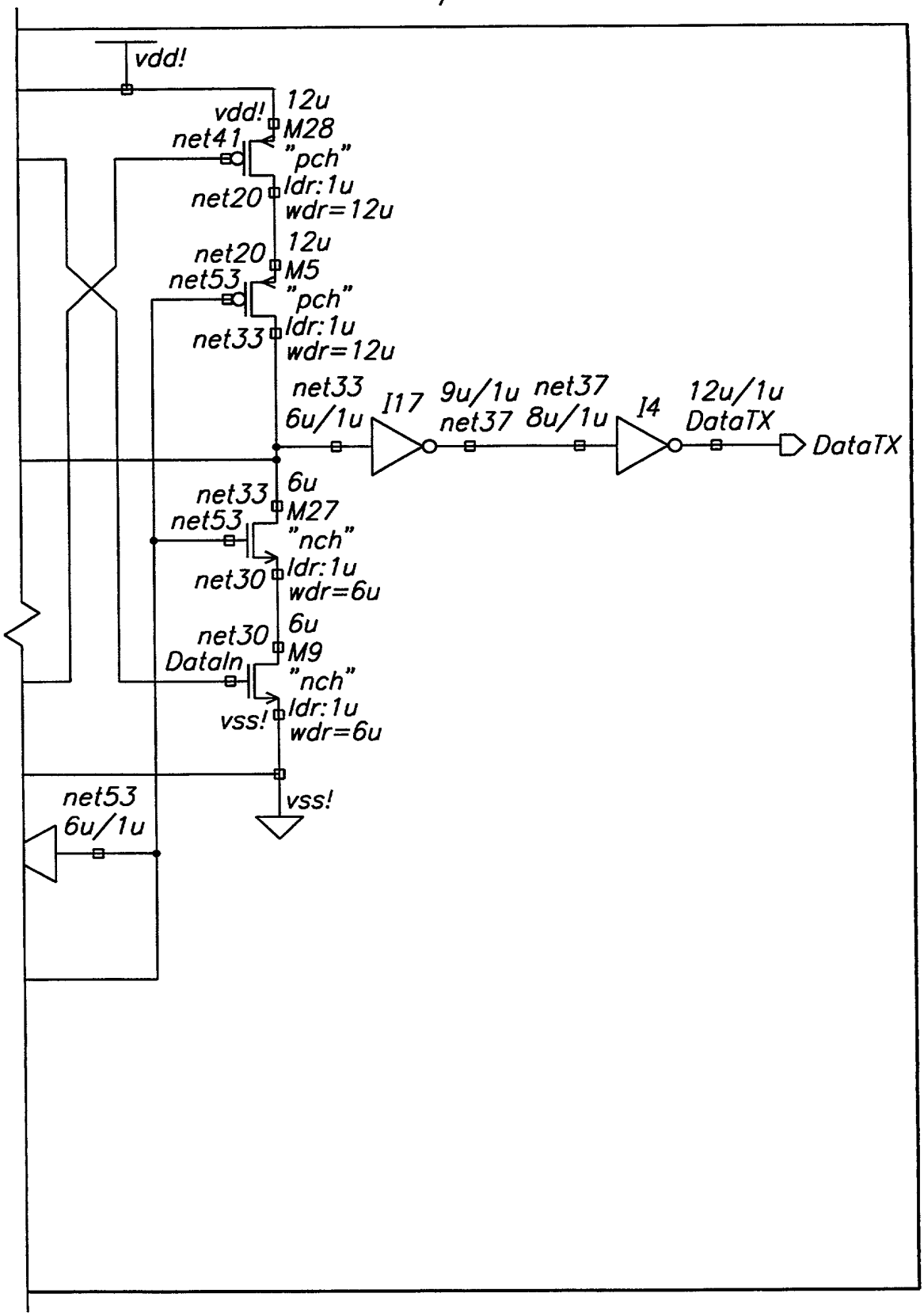


Fig 8.01080AC

T0T190*E9022860

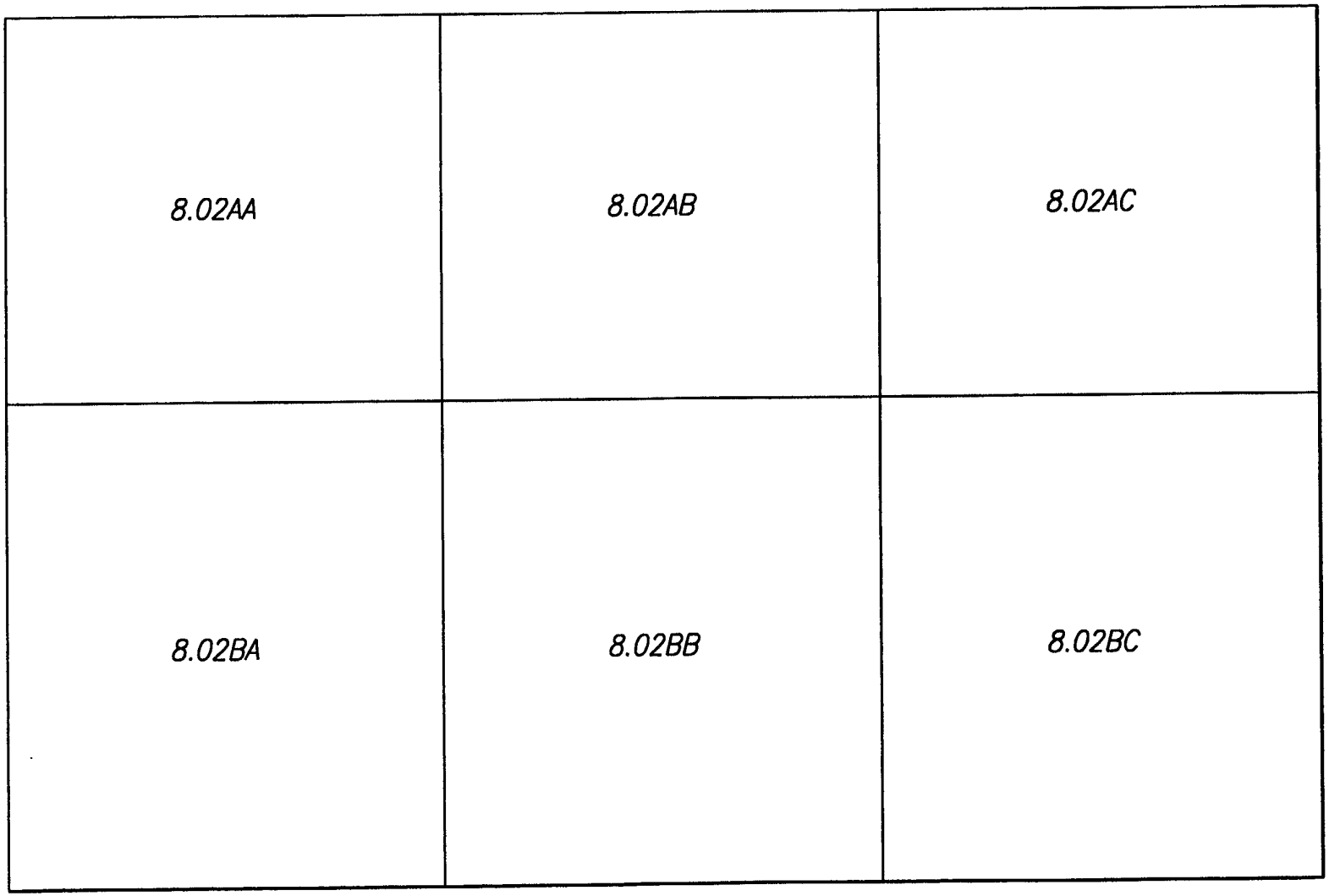


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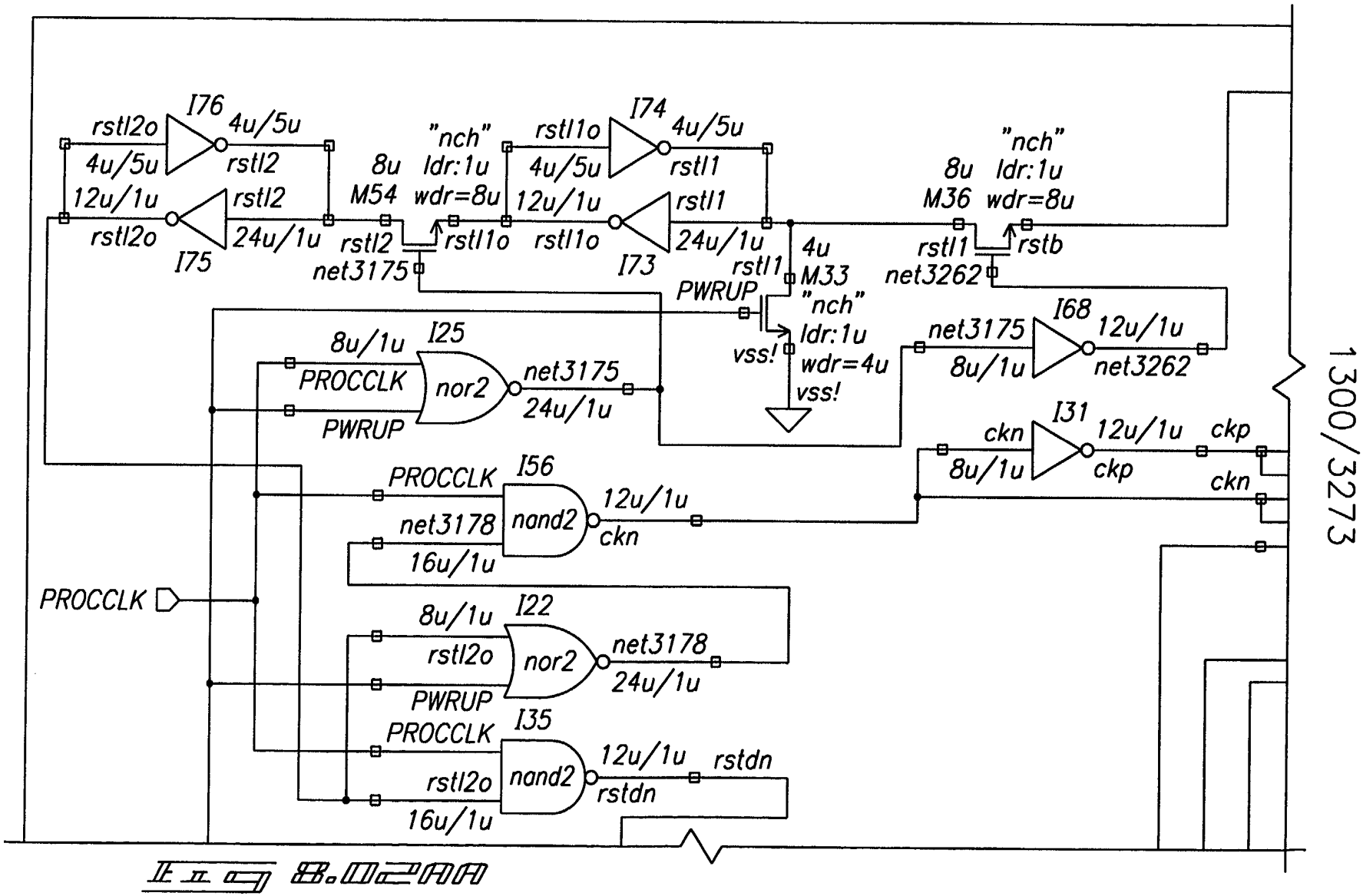

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4u/5u
rstl2
12u/1u
rstl2
rstl2o
24u/1u
I75
8u
M54
"nch"
ldr:1u
wdr=8u
rstl2
net3175
rstl1o
rstl1o
rstl1o
I74
4u/5u
4u/5u
rstl1
12u/1u
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24u/1u
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8u
M36
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ldr:1u
wdr=8u
rstl1
net3262
rstb
I68
net3175
8u/1u
12u/1u
net3262
I25
8u/1u
PROCCLK
nor2
net3175
24u/1u
PWRUP
I31
ckn
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ckp
ckp
ckn
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net3178
nand2
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ckn
16u/1u
PROCCLK
I22
8u/1u
rstl2o
nor2
net3178
24u/1u
PWRUP
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rstdn
16u/1u
1300/3273

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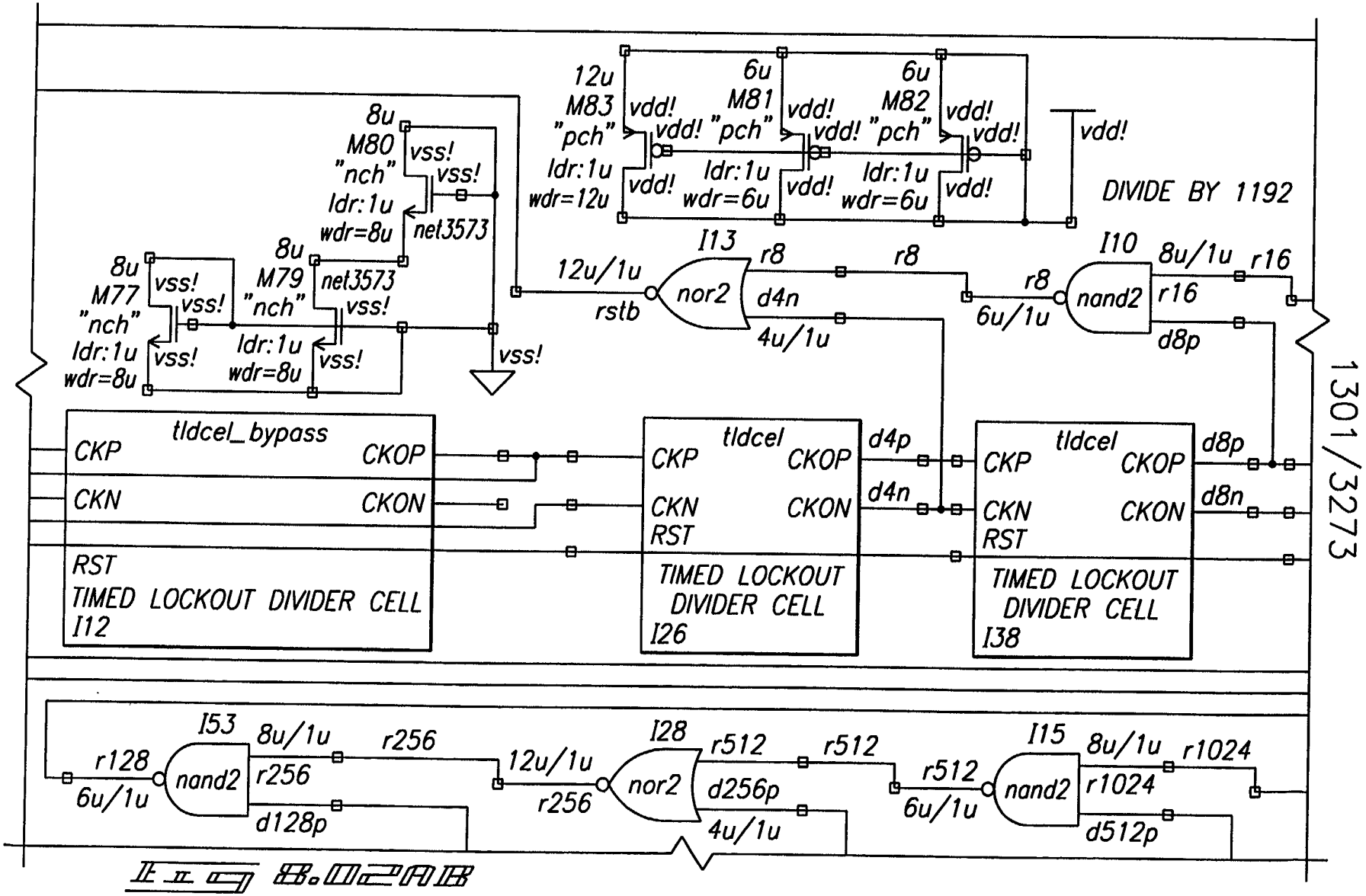

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6u
M81
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wdr=6u
6u
M82
"pch"
ldr:1u
wdr=6u
vdd!
DIVIDE BY 1192
8u
M80
"nch"
ldr:1u
wdr=8u
net3573
8u
M79
"nch"
ldr:1u
wdr=8u
8u
M77
"nch"
ldr:1u
wdr=8u
vss!
I13
nor2
12u/1u
rstb
r8
d4n
4u/1u
I10
nand2
8u/1u
r16
d8p
6u/1u
tldcel_bypass
CKP
CKN
RST
CKOP
CKON
TIMED LOCKOUT DIVIDER CELL
I12
tldcel
I26
d4p
d4n
I38
d8p
d8n
1301/3273
I53
nand2
r128
6u/1u
8u/1u
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I28
nor2
r512
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I15
r1024
d512p

Fig 8.02AB

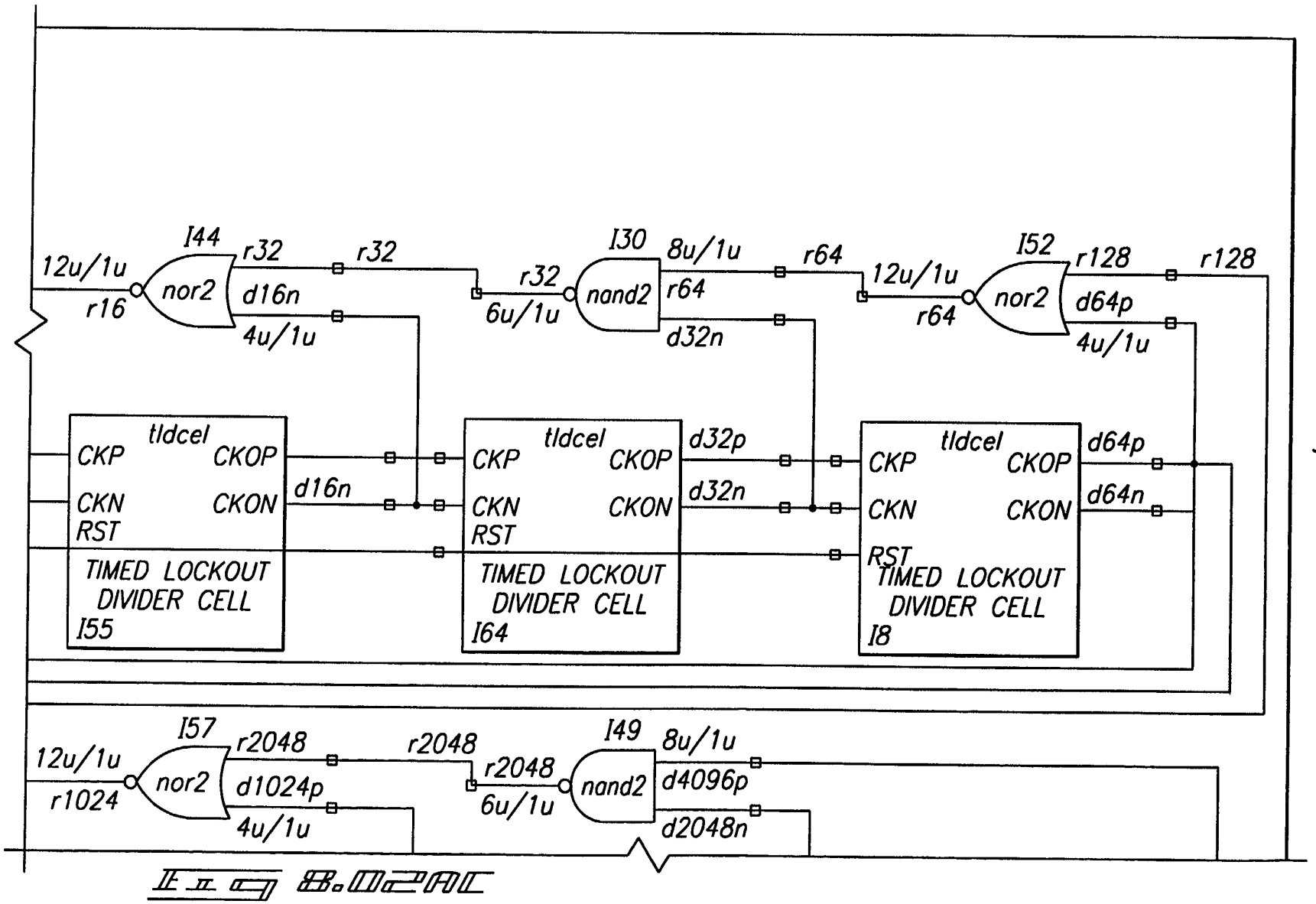
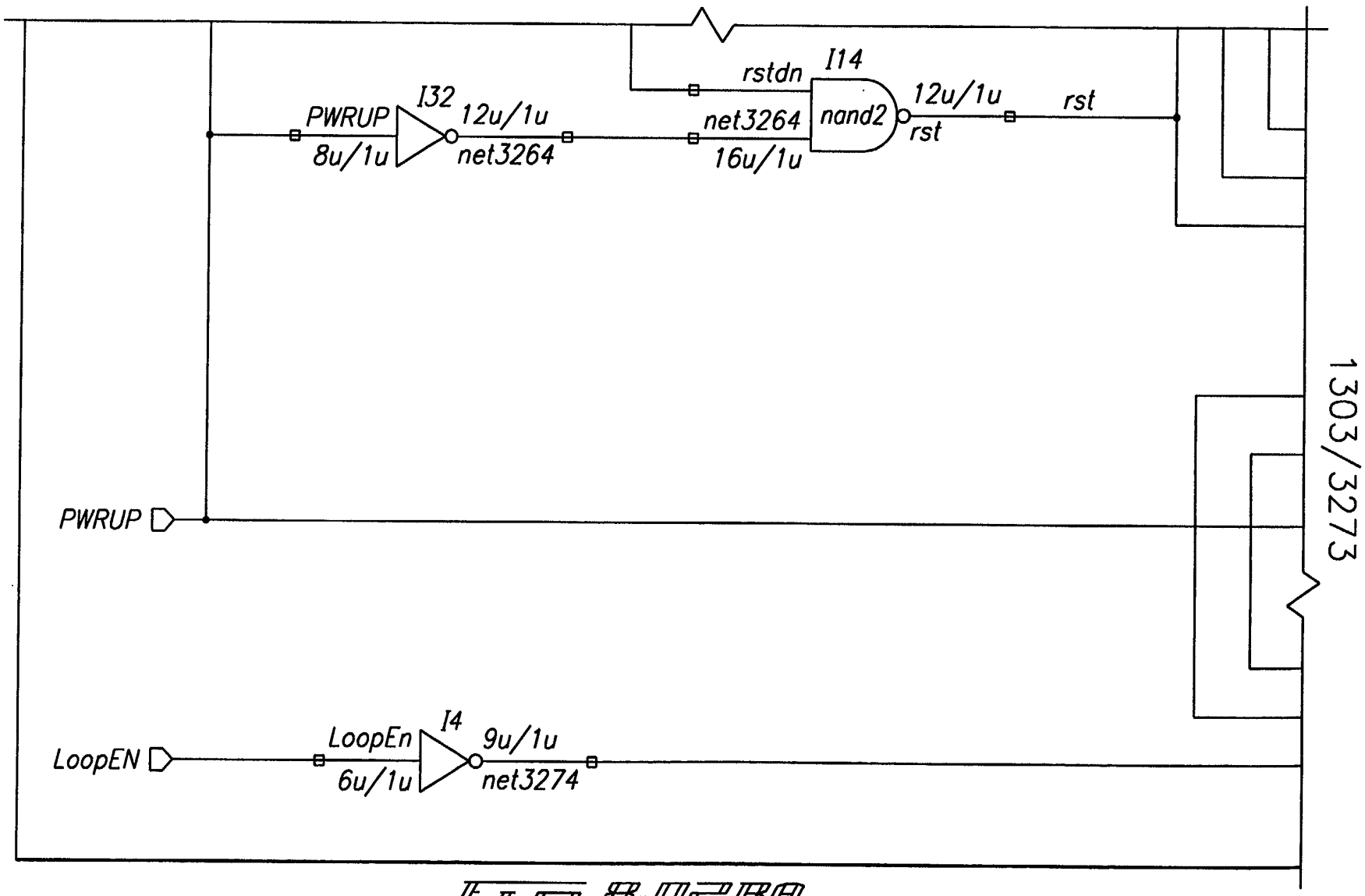


Fig 8.002AC

1302/3273


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net3264
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Фиг 8.002ВА

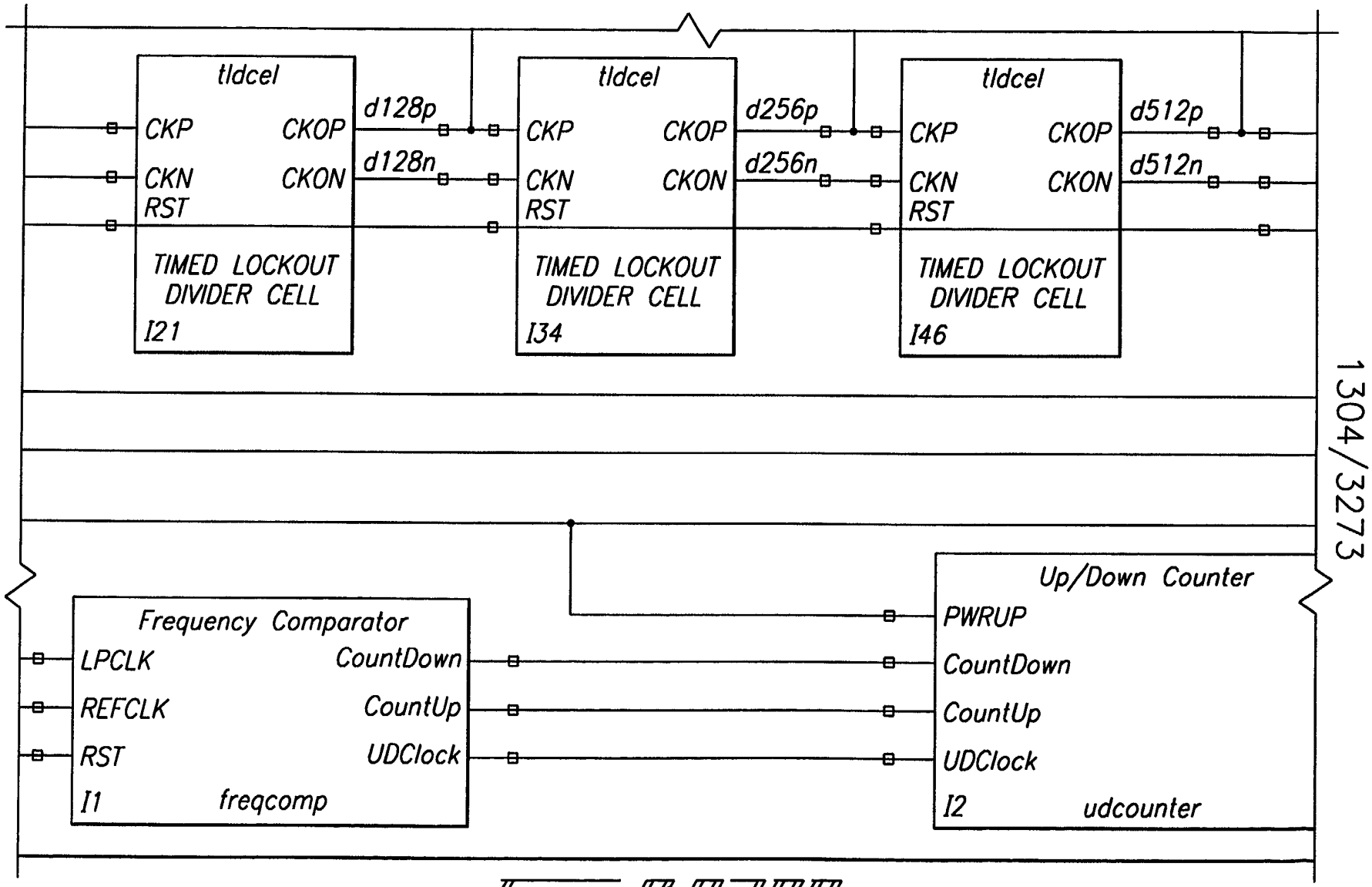
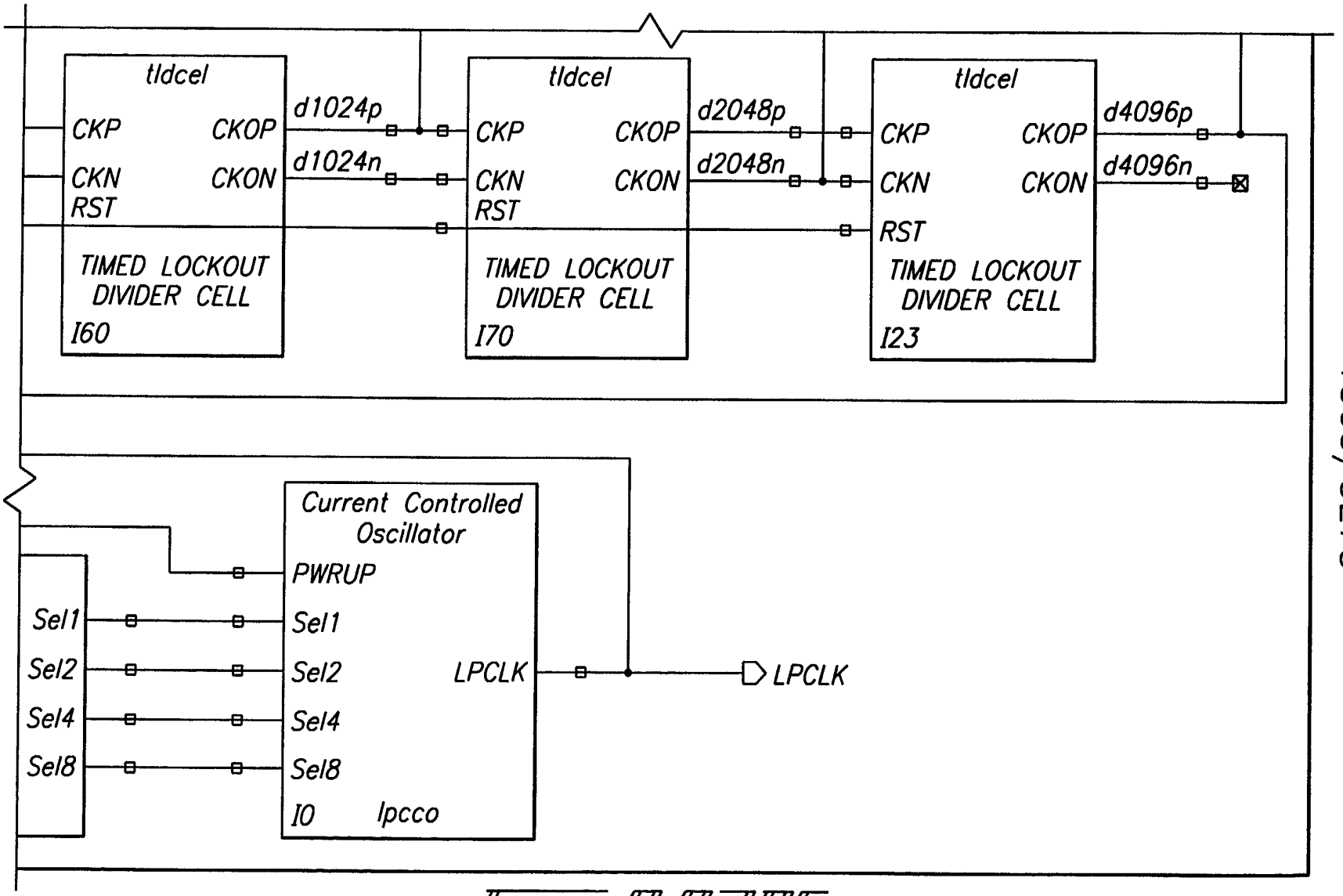

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CKN
CKON
RST
d256p
d256n
TIMED LOCKOUT DIVIDER CELL
I34
tldcel
CKP
CKOP
CKN
CKON
RST
d512p
d512n
TIMED LOCKOUT DIVIDER CELL
I46
1304/3273
Frequency Comparator
LPCLK
REFCLK
RST
CountDown
CountUp
UDClock
I1
freqcomp
Up/Down Counter
PWRUP
CountDown
CountUp
UDClock
I2
udcounter

Fig 8.02BB



1305/3273

Fig 8.0208

I01190'E90a2860

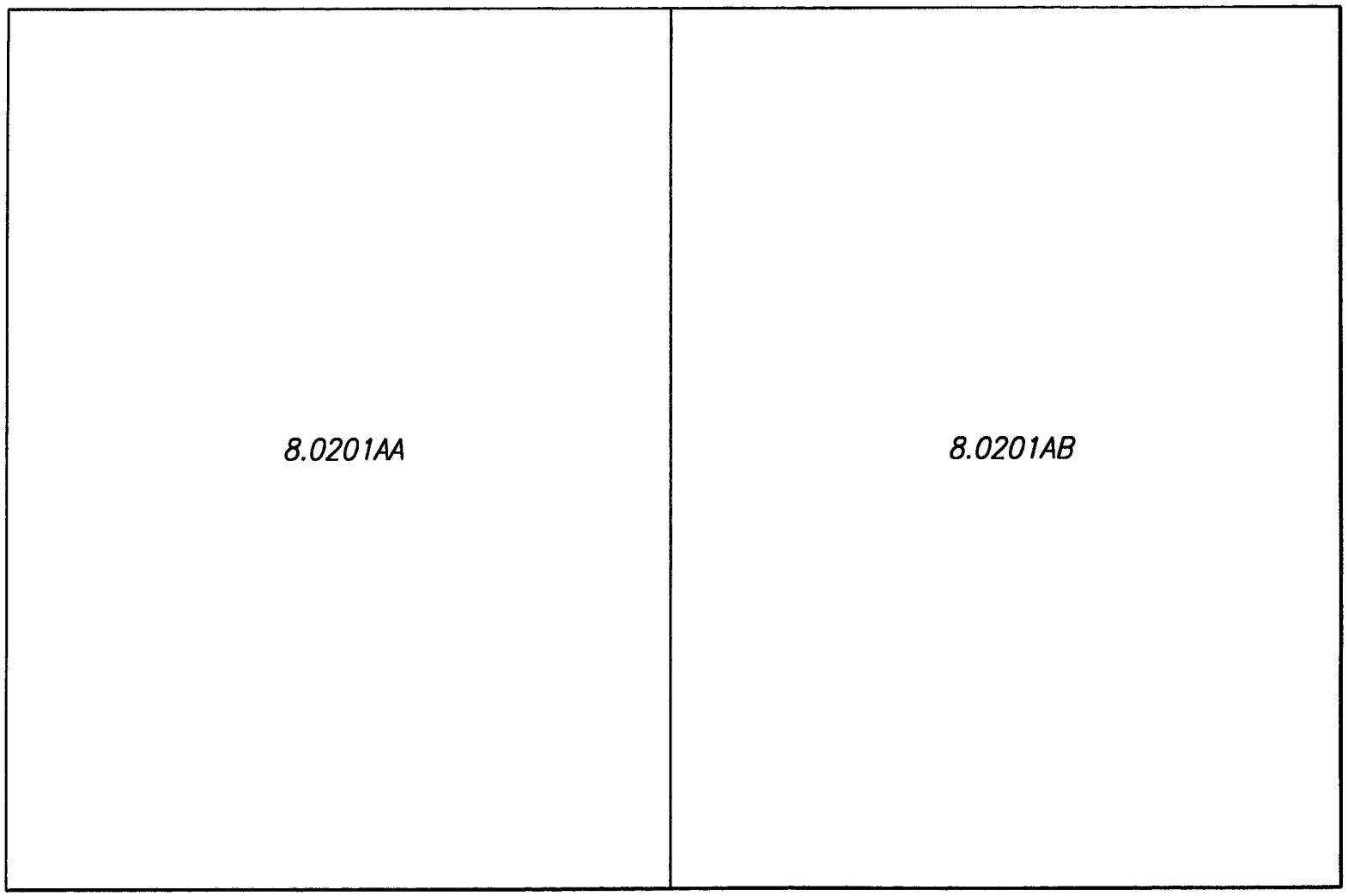


Fig 8.0201

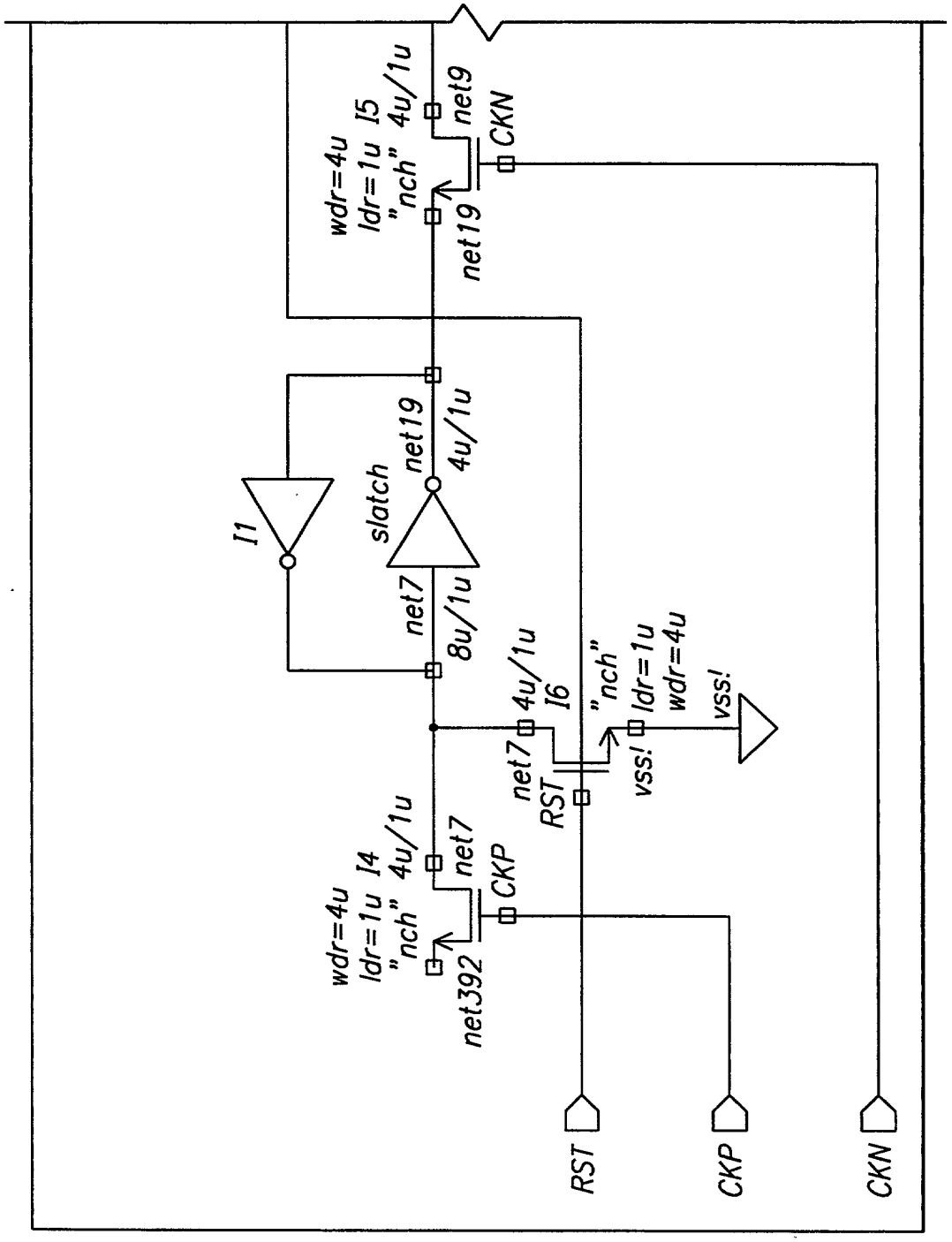
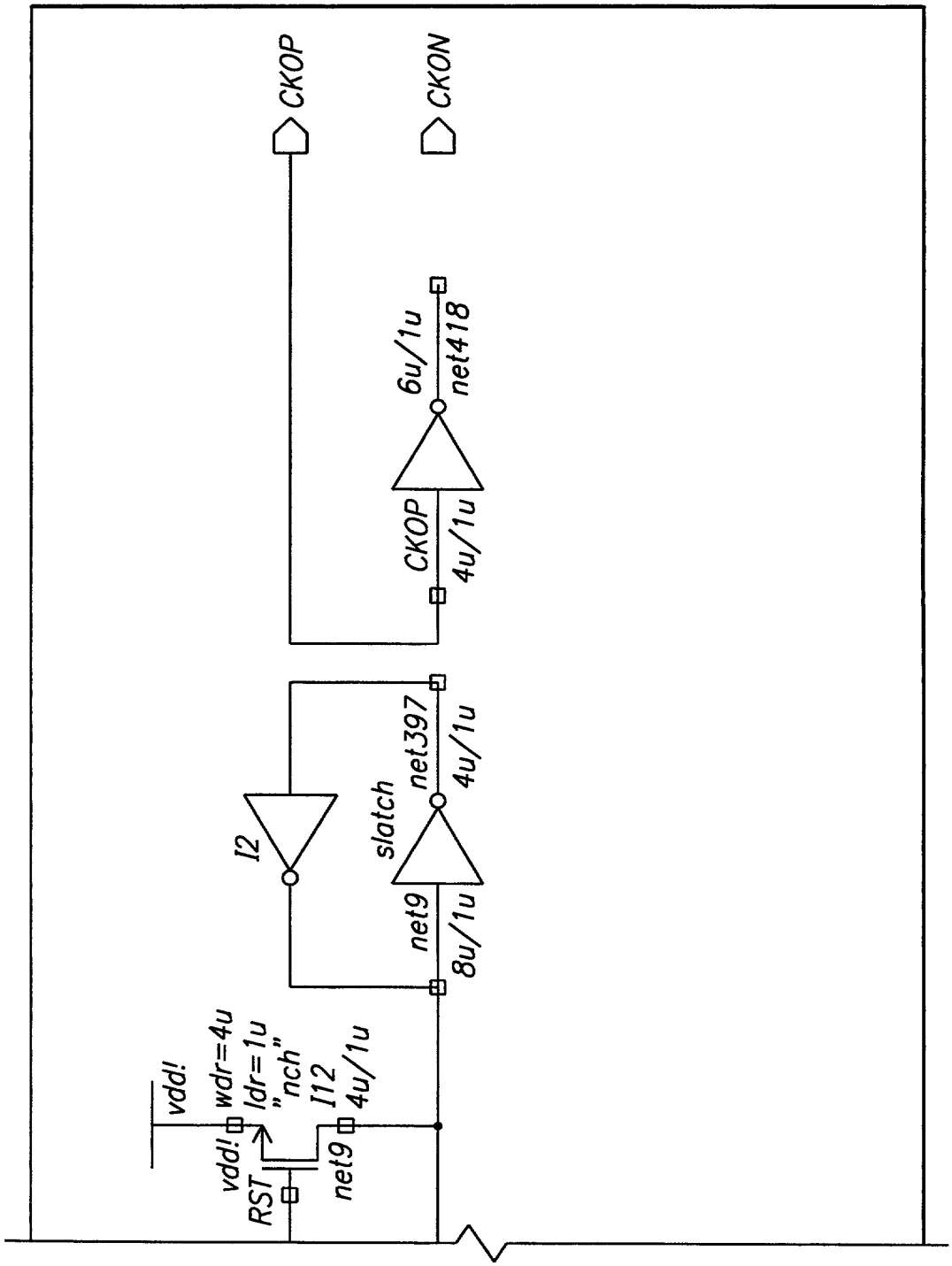


FIG 8.00211AA



Фиг.11

Copyright ESPACENET

8.0202AA	8.0202AB	8.0202AC	8.0202AD
8.0202BA	8.0202BB	8.0202BC	8.0202BD
8.0202CA	8.0202CB	8.0202CC	8.0202CD

Fig 8.0202

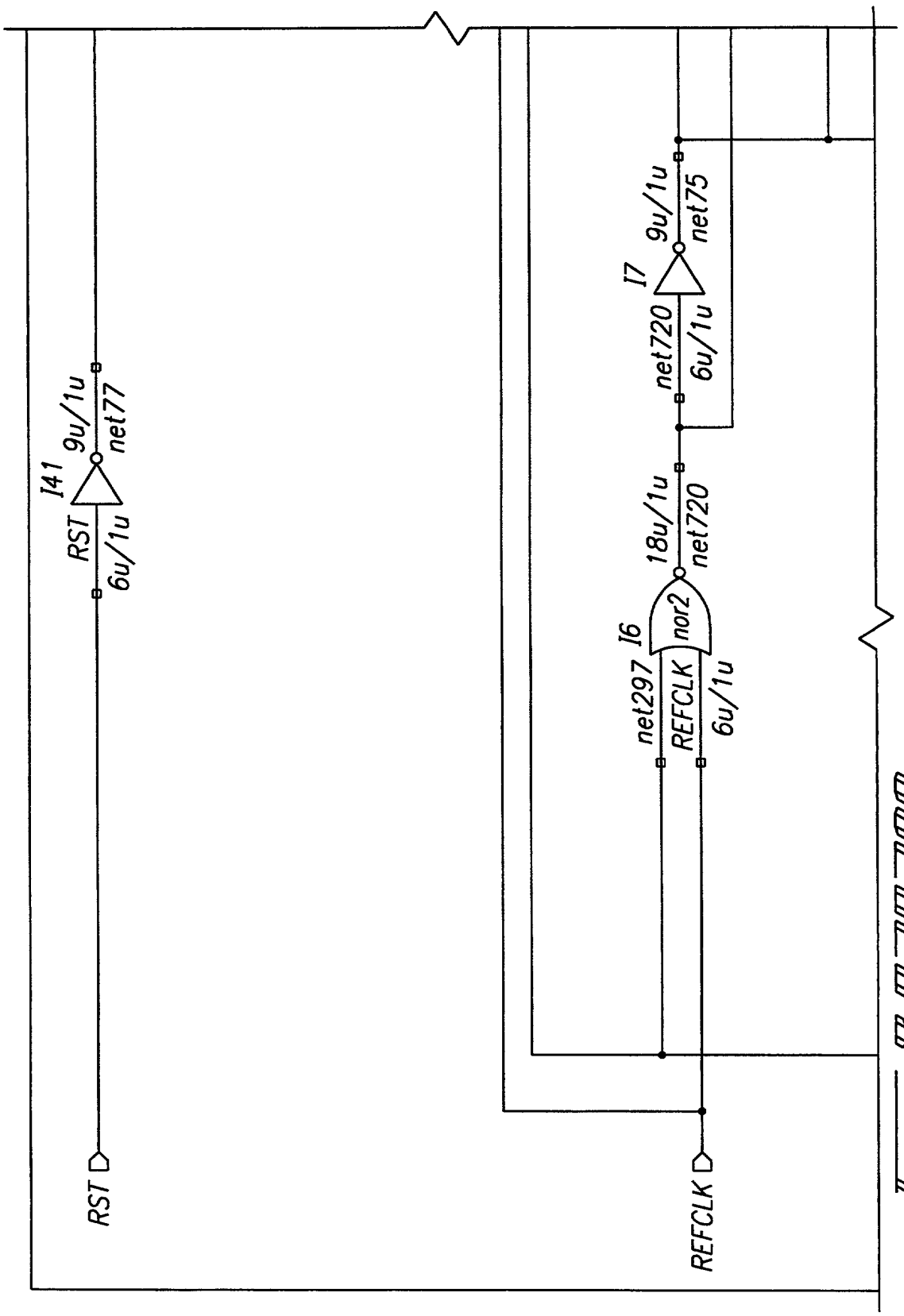
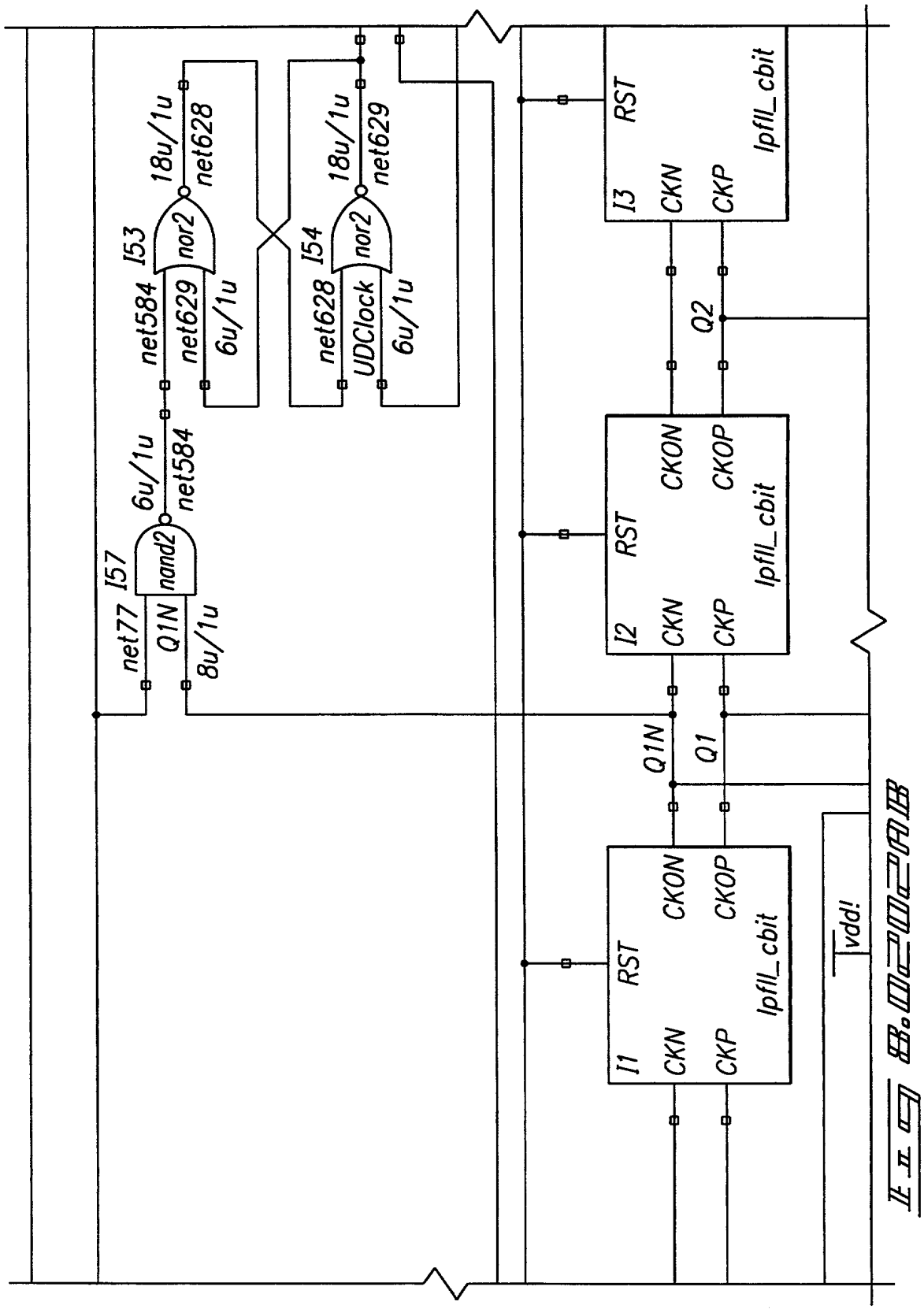
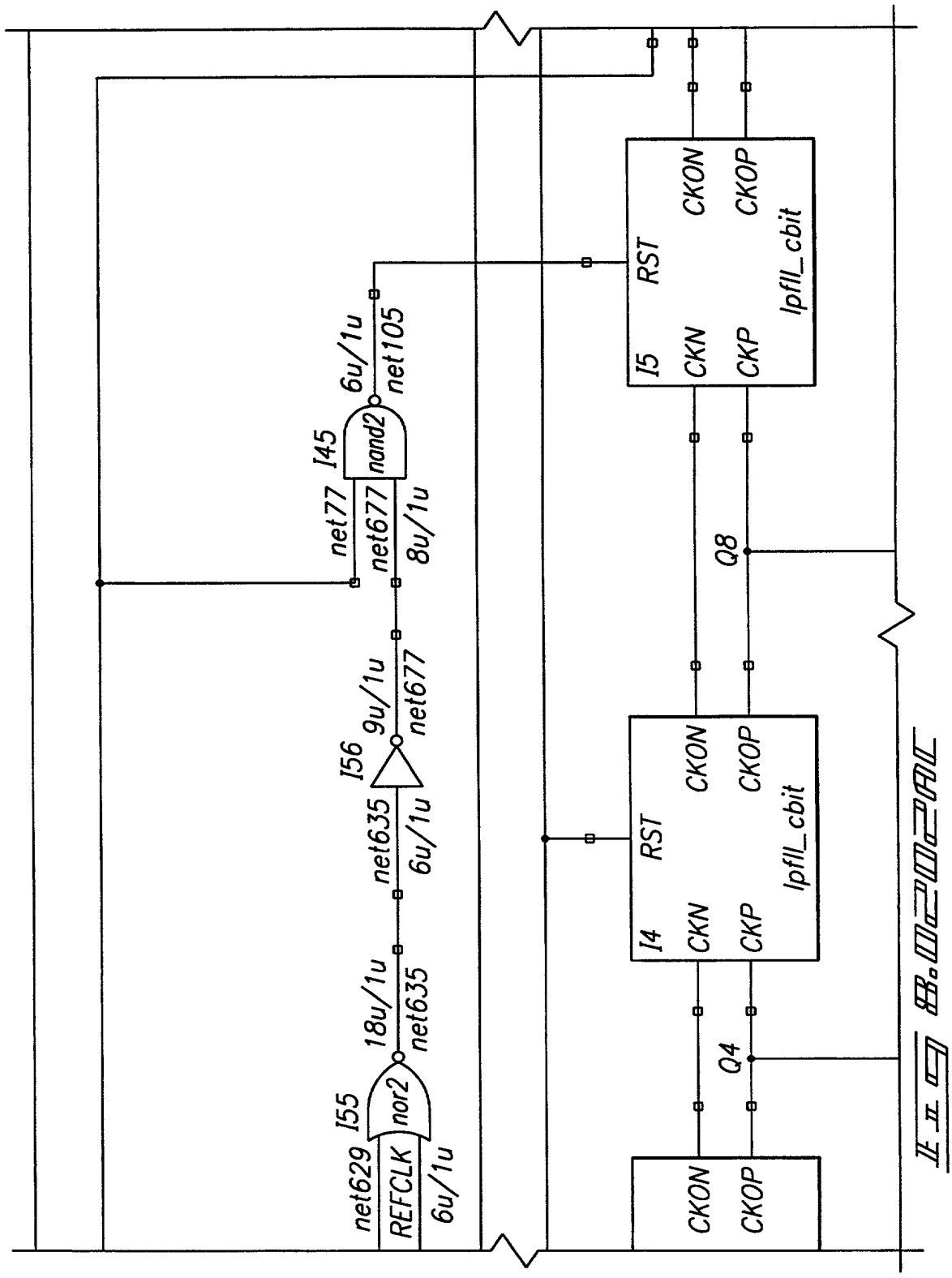
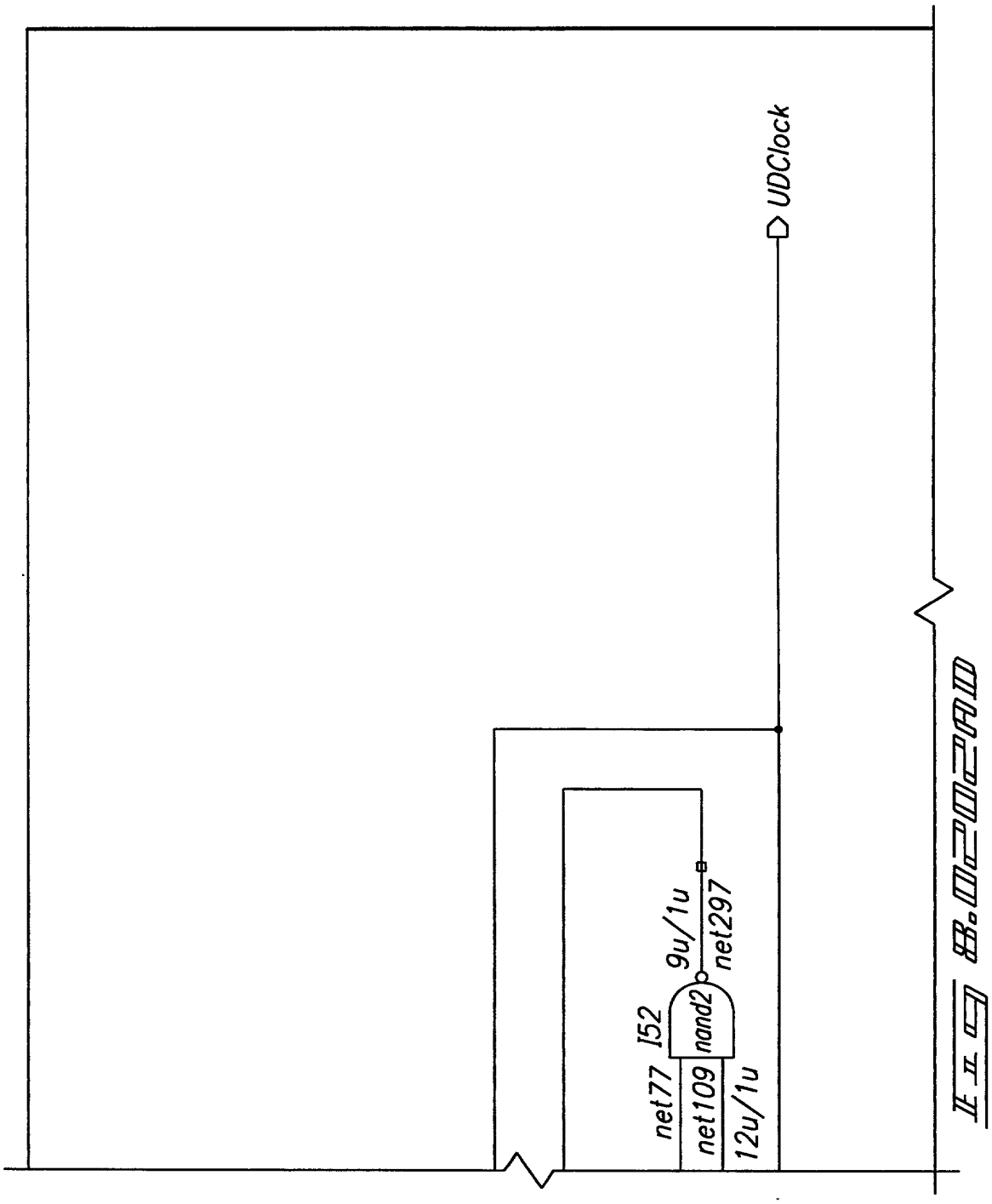

I41
9u/1u
net77
RST
6u/1u
RST
I7
9u/1u
net75
net720
6u/1u
I6
18u/1u
net720
nor2
net297
REFCLK
6u/1u
REFCLK

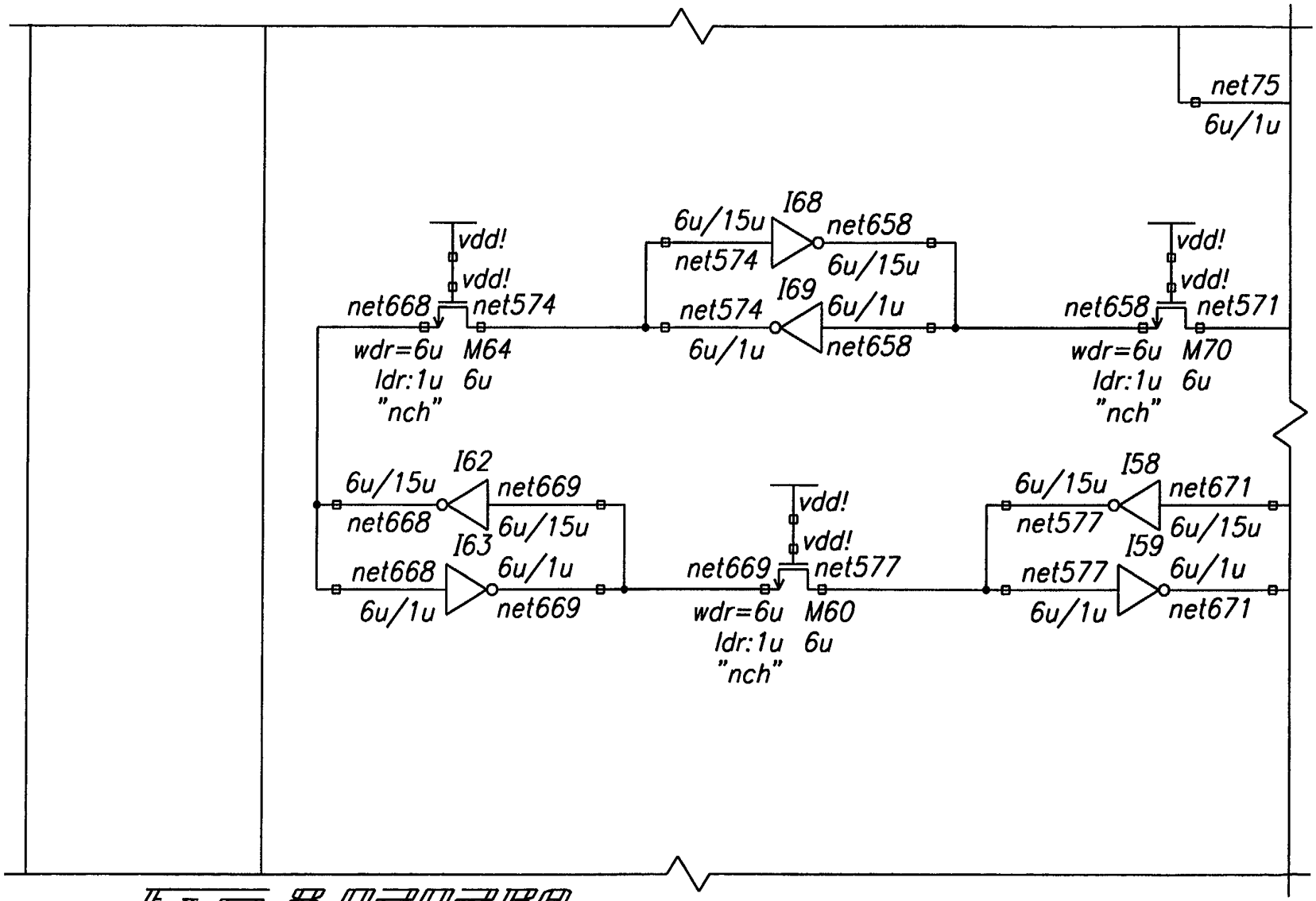
FIG 8.02020A


I57
nand2
net77
Q1N
8u/1u
6u/1u
net584
I53
nor2
net584
net629
6u/1u
18u/1u
net628
I54
nor2
net628
UDClock
6u/1u
18u/1u
net629
I1
RST
CKN
CKP
CKON
CKOP
lpfll_cbit
Q1N
Q1
I2
RST
CKN
CKP
CKON
CKOP
lpfll_cbit
Q2
I3
RST
CKN
CKP
lpfll_cbit
vdd!


I55
nor2
18u/1u
net635
net629
REFCLK
6u/1u
I56
9u/1u
net677
net635
6u/1u
I45
nand2
6u/1u
net105
net677
8u/1u
net77
I4
I5
RST
CKN
CKP
CKON
CKOP
lpfll_cbit
Q4
Q8



US 6,002,840


net75
6u/1u
I68
6u/15u
net658
net574
6u/15u
vdd!
vdd!
net668
net574
I69
net574
6u/1u
6u/1u
net658
wdr=6u M64
ldr:1u 6u
"nch"
vdd!
vdd!
net658
net571
wdr=6u M70
ldr:1u 6u
"nch"
I62
6u/15u
net669
net668
6u/15u
I63
net668
6u/1u
6u/1u
net669
vdd!
vdd!
net669
net577
wdr=6u M60
ldr:1u 6u
"nch"
I58
6u/15u
net671
net577
6u/15u
I59
net577
6u/1u
6u/1u
net671
1314/3273

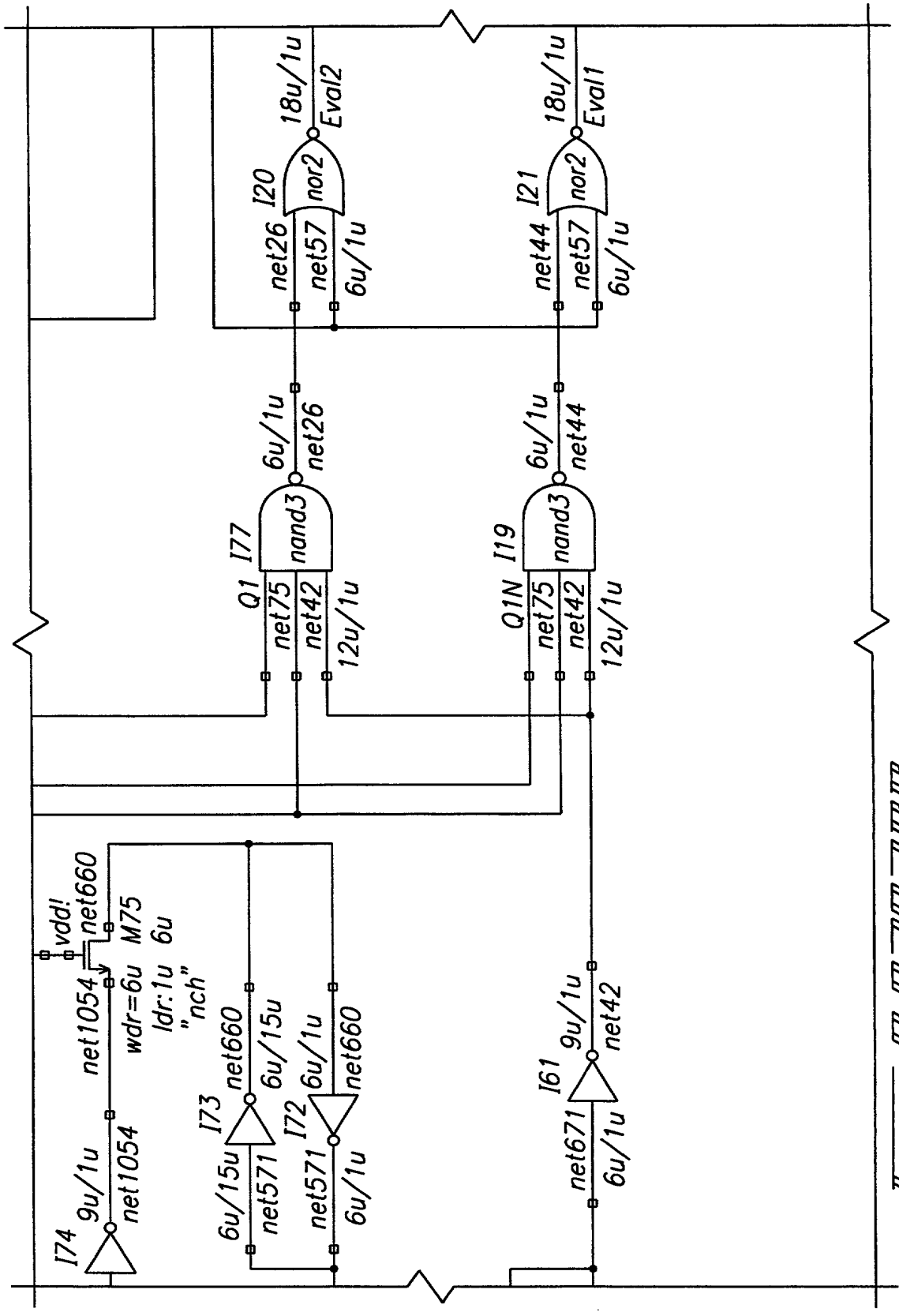
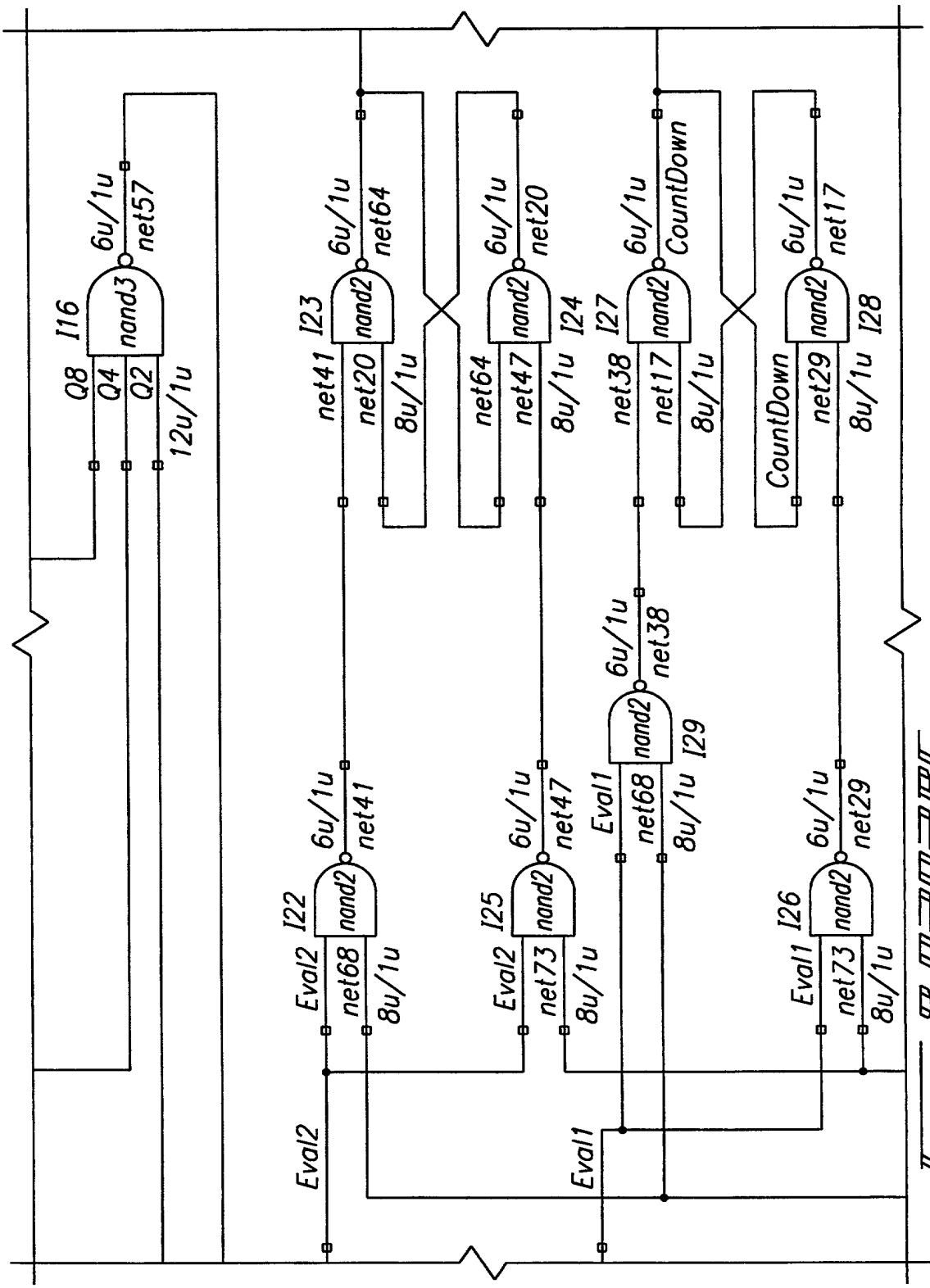
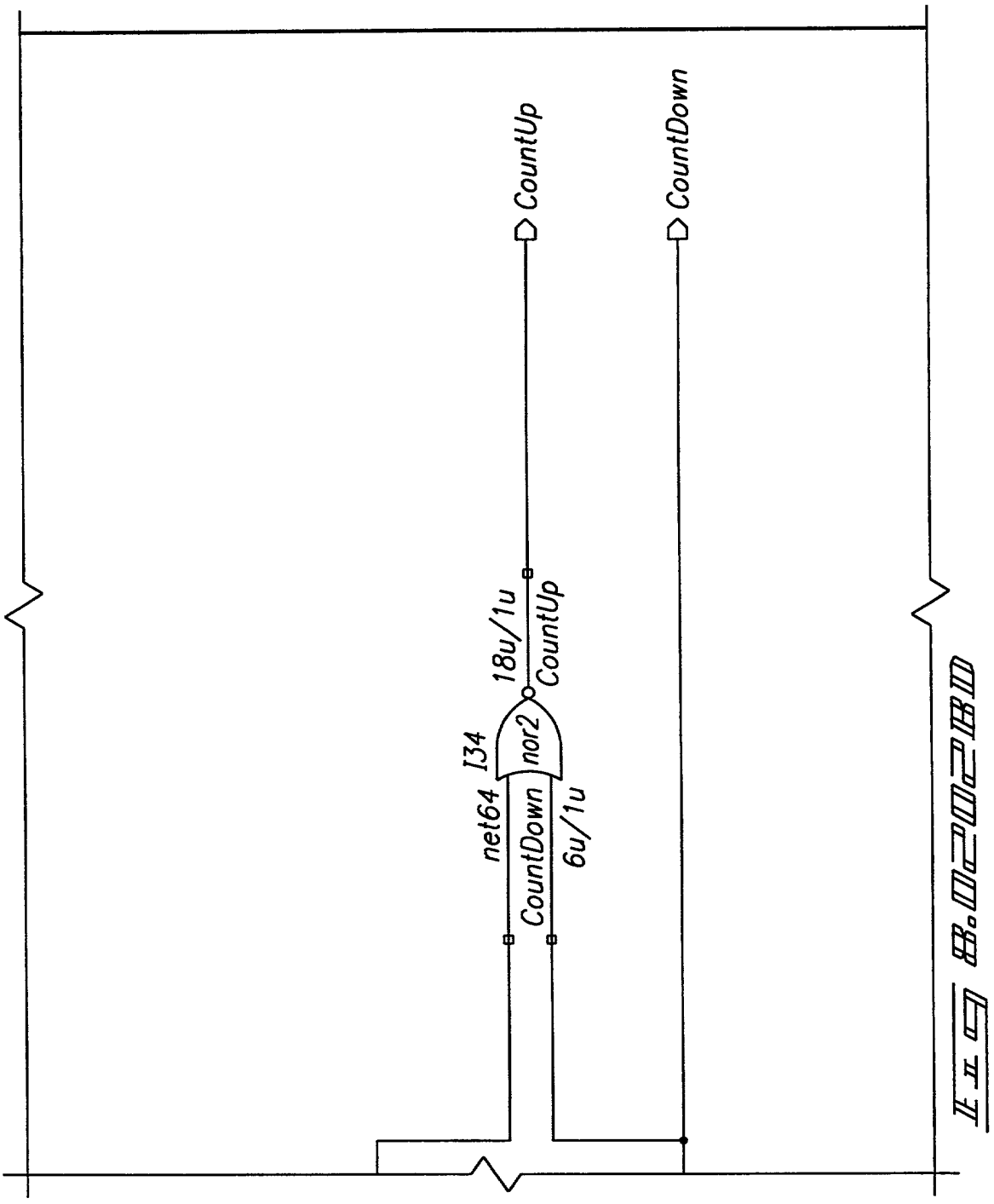


图 3.002-2

1011150-20020640


I16
nand3
6u/1u
net57
Q8
Q4
Q2
12u/1u
I23
nand2
6u/1u
net64
net41
net20
8u/1u
I24
nand2
6u/1u
net20
net64
net47
8u/1u
I27
nand2
6u/1u
CountDown
net38
net17
8u/1u
I28
nand2
6u/1u
net17
CountDown
net29
8u/1u
I22
nand2
6u/1u
net41
Eval2
net68
8u/1u
I25
nand2
6u/1u
net47
Eval2
net73
8u/1u
I29
nand2
6u/1u
net38
Eval1
net68
8u/1u
I26
nand2
6u/1u
net29
Eval1
net73
8u/1u
Eval2
Eval1



US 9,529,954 B2

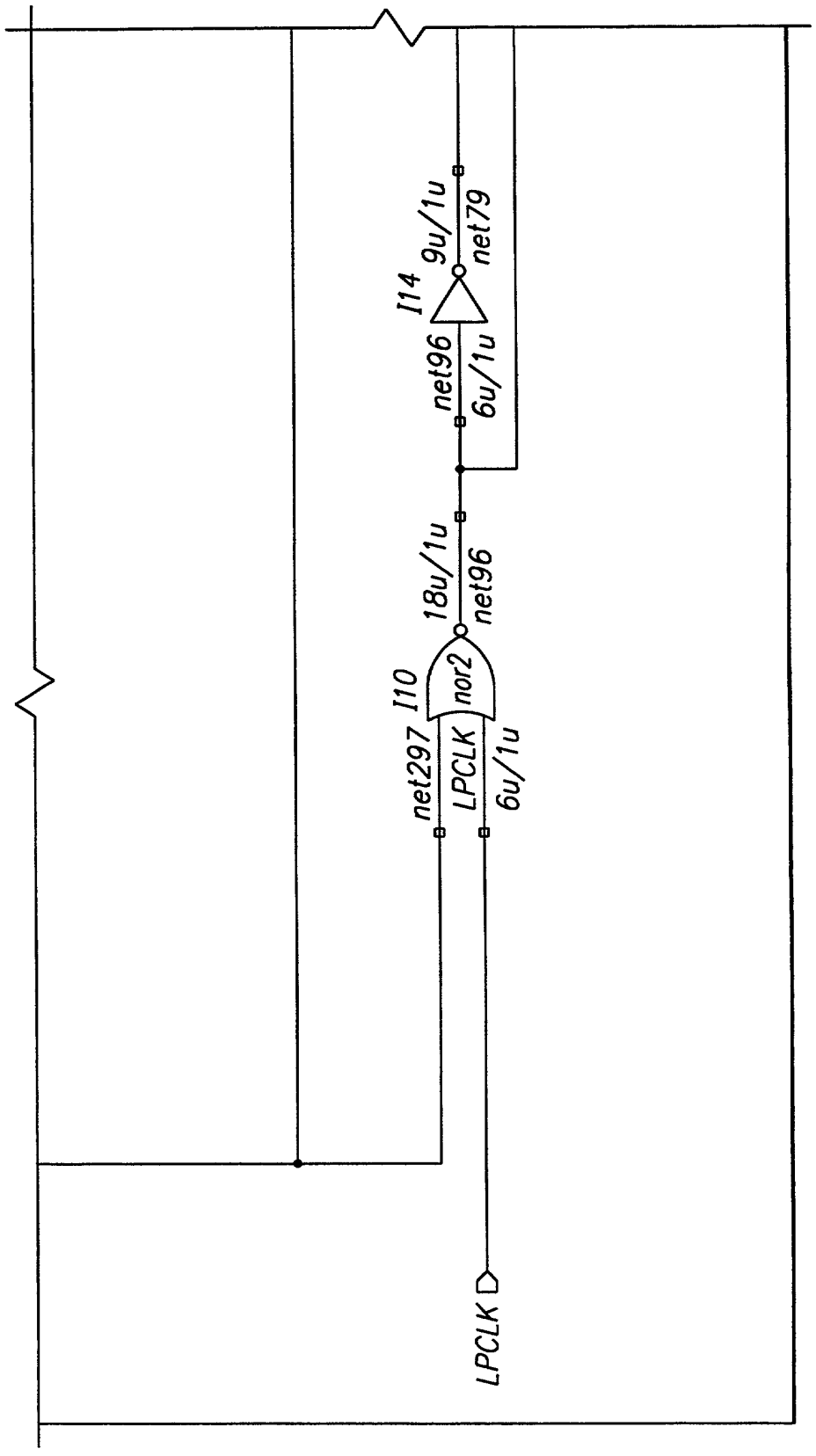
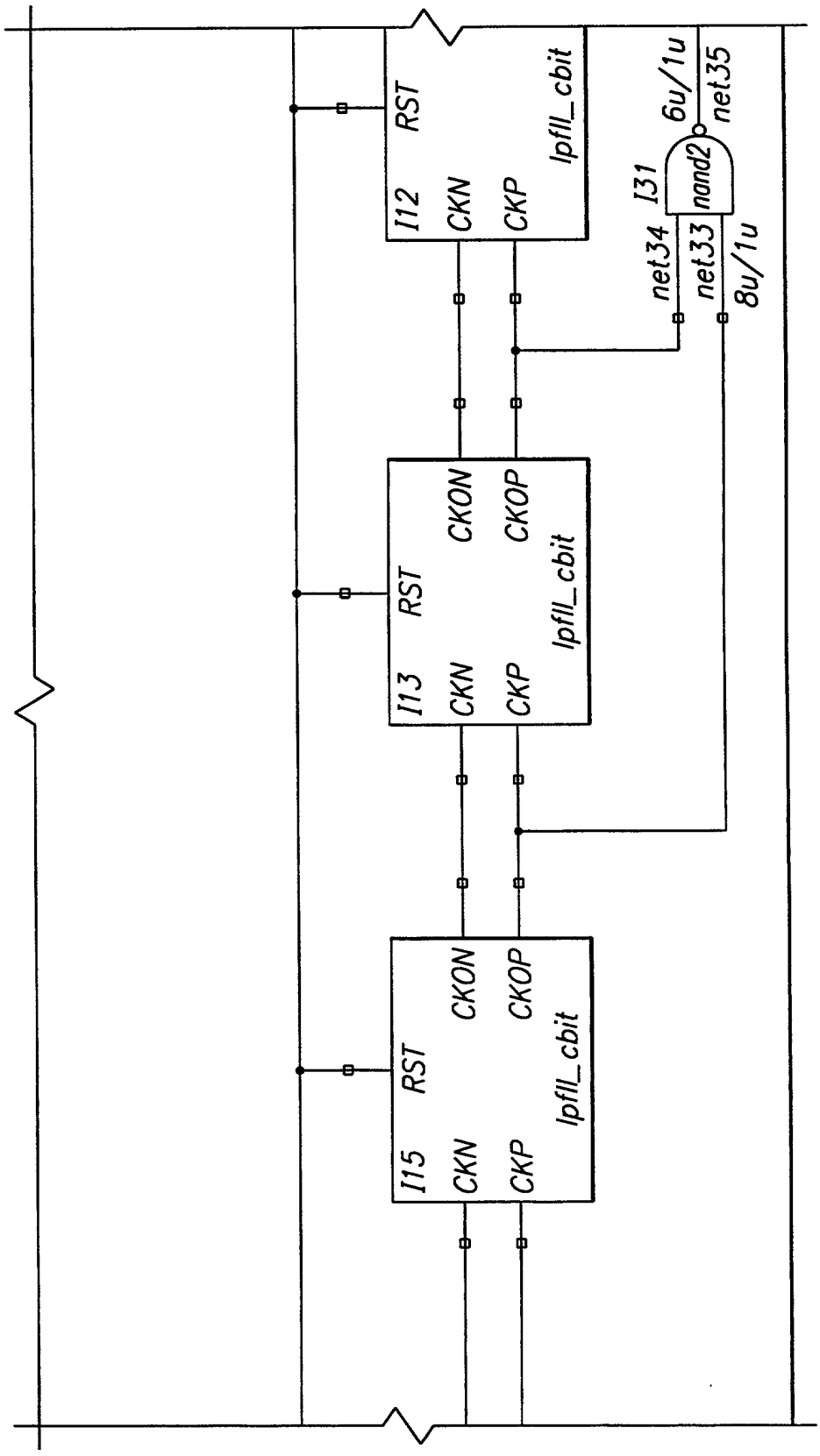
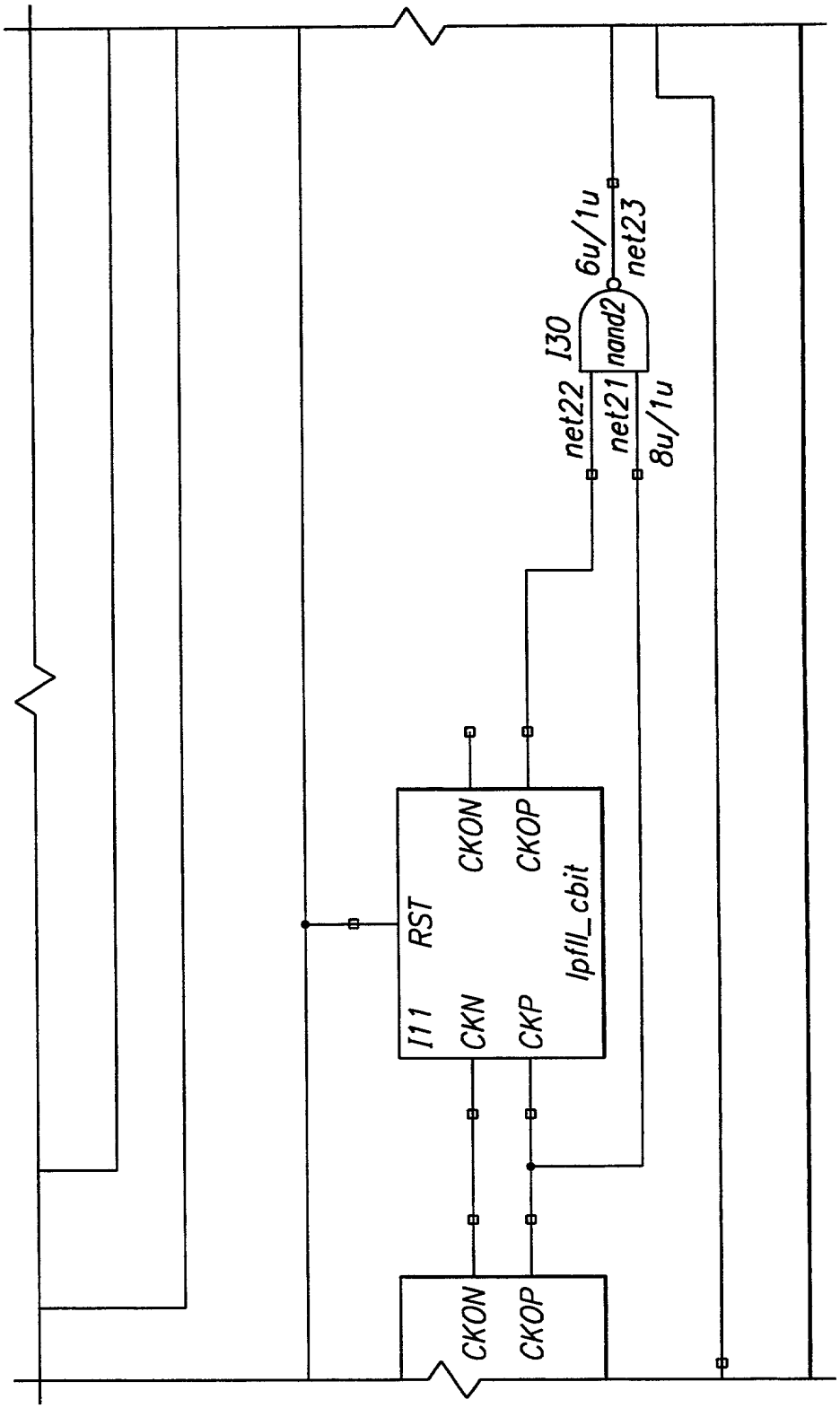

I14
9u/1u
net79
net96
6u/1u
18u/1u
net96
I10
nor2
net297
LPCLK
6u/1u
LPCLK

FIG 8.00270A



Фиг 8.002

1011501 e3012e6p0



Фиг. 8.00200

EP 1 615 340 A1

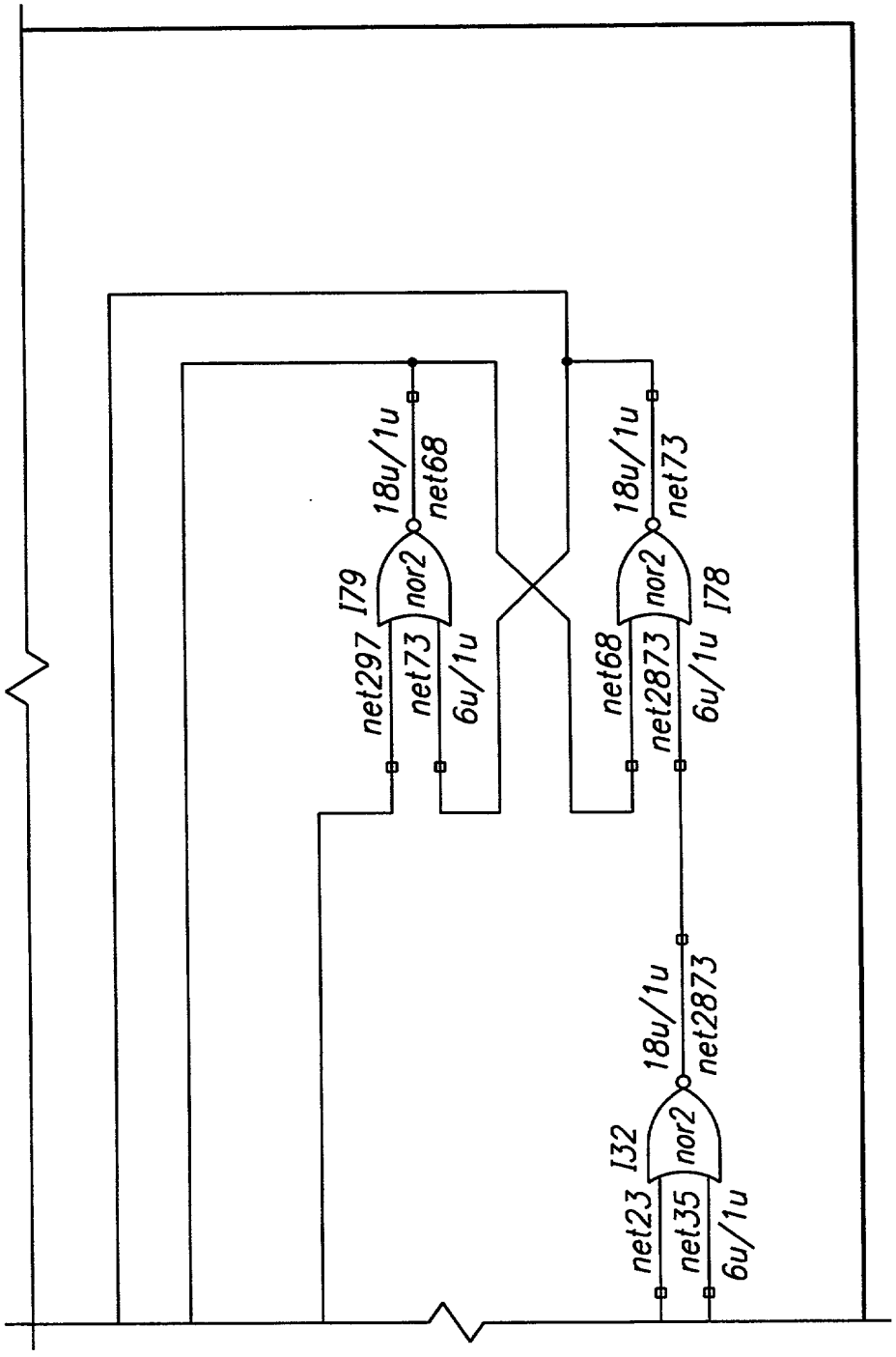


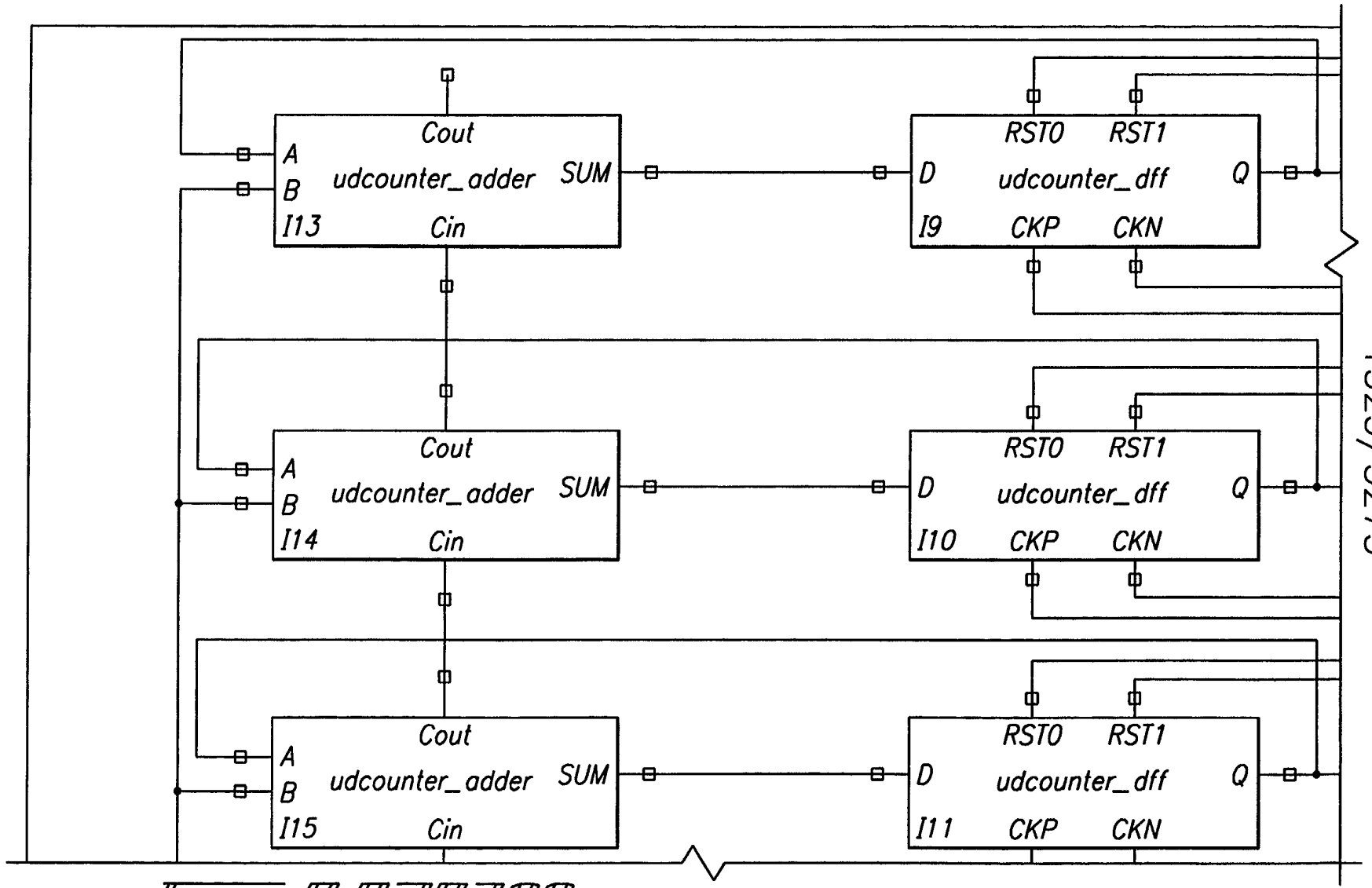
Fig 88.00220

Patent application publication

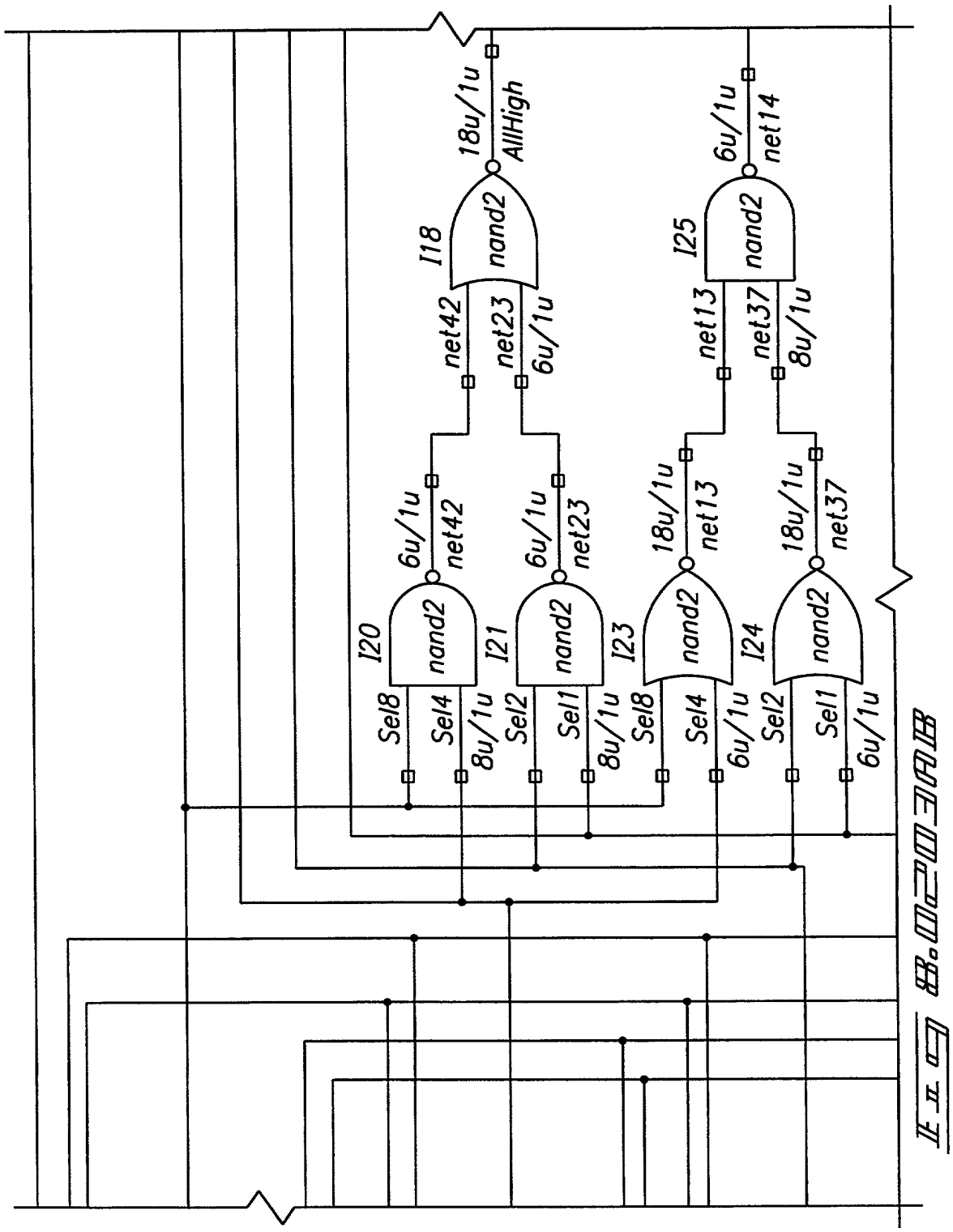
EDITED 2002-08-20

8.0203AA	8.0203AB	8.0203AC
8.0203BA	8.0203BB	8.0203BC

Fig 8.0203


Cout
A
B
I13
udcounter_adder
SUM
Cin
RST0
RST1
D
udcounter_dff
Q
I9
CKP
CKN
Cout
A
B
I14
udcounter_adder
SUM
Cin
RST0
RST1
D
udcounter_dff
Q
I10
CKP
CKN
Cout
A
B
I15
udcounter_adder
SUM
Cin
RST0
RST1
D
udcounter_dff
Q
I11
CKP
CKN
1323/3273

Ig 8.02033AA


I18
nand2
18u/1u
AllHigh
net42
net23
6u/1u
I25
nand2
6u/1u
net14
net13
net37
8u/1u
I20
nand2
6u/1u
net42
I21
nand2
6u/1u
net23
I23
nand2
18u/1u
net13
I24
nand2
18u/1u
net37
Sel8
Sel4
8u/1u
Sel2
Sel1
8u/1u
Sel8
Sel4
6u/1u
Sel2
Sel1
6u/1u

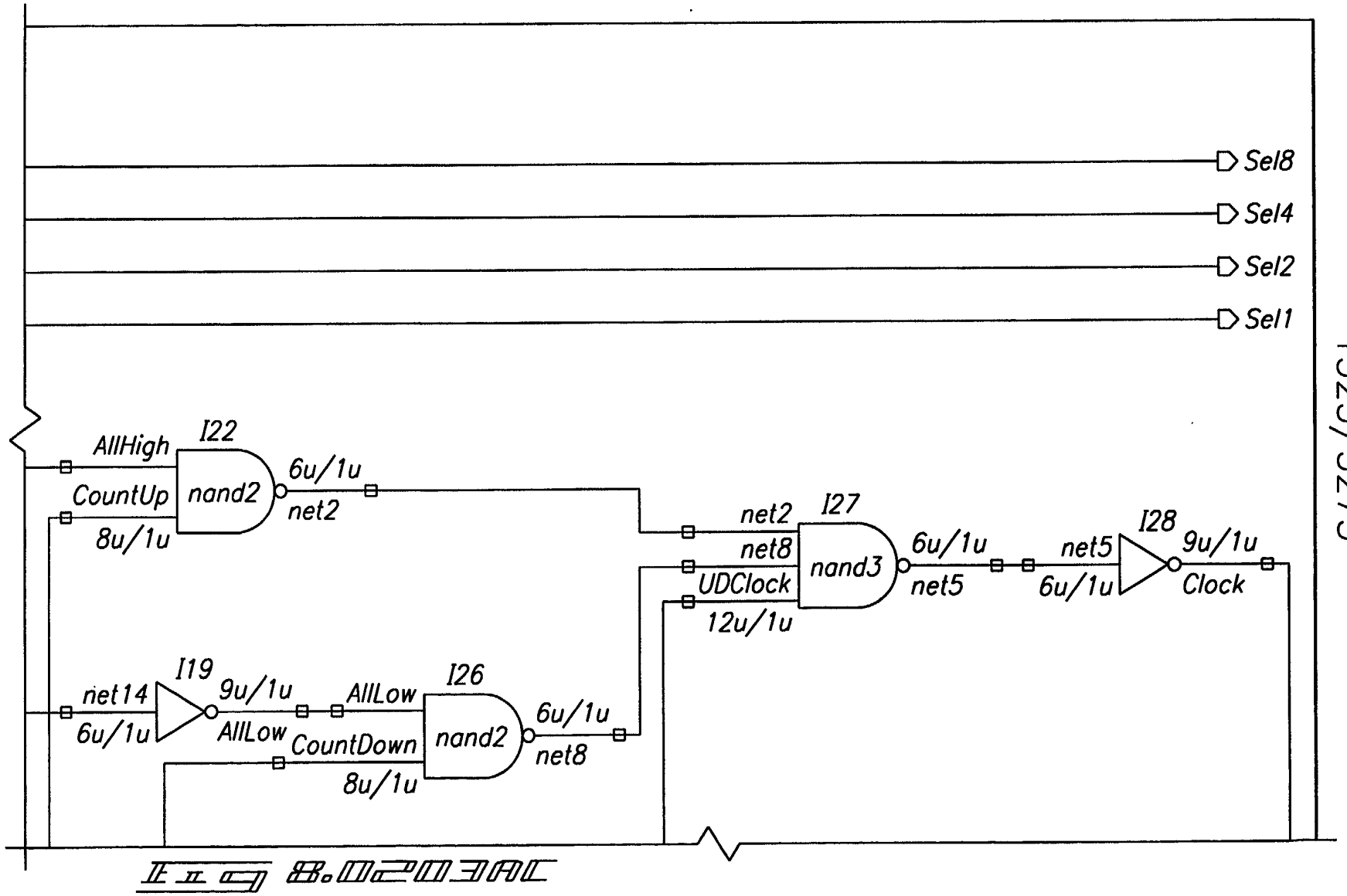
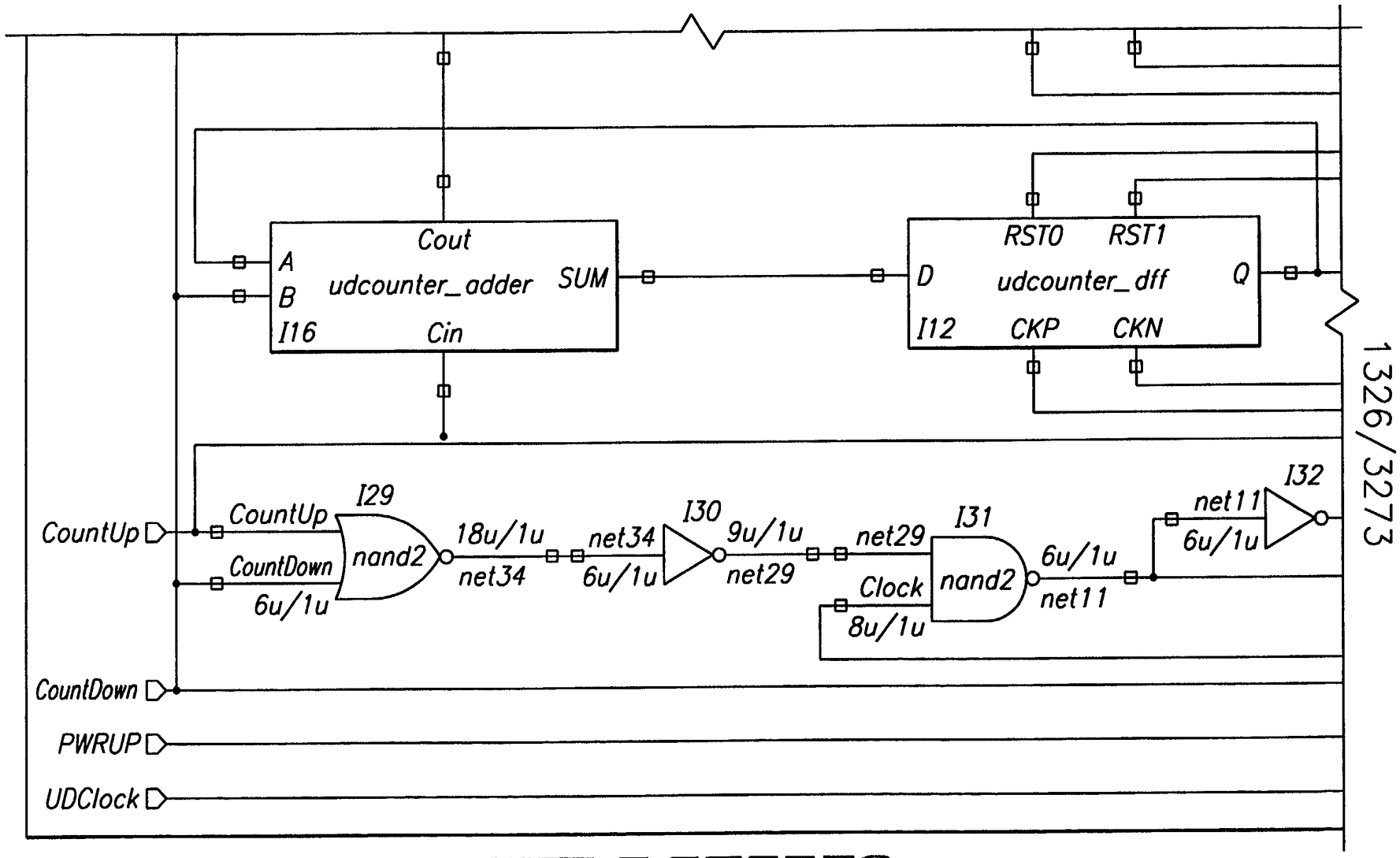


Fig 8.002038C


Cout
A
B
I16
udcounter_adder
SUM
Cin
RST0
RST1
D
udcounter_dff
Q
I12
CKP
CKN
1326/3273
I32
net11
6u/1u
I29
CountUp
CountDown
nand2
18u/1u
net34
I30
9u/1u
net29
I31
Clock
8u/1u
6u/1u
CountUp
CountDown
PWRUP
UDClock

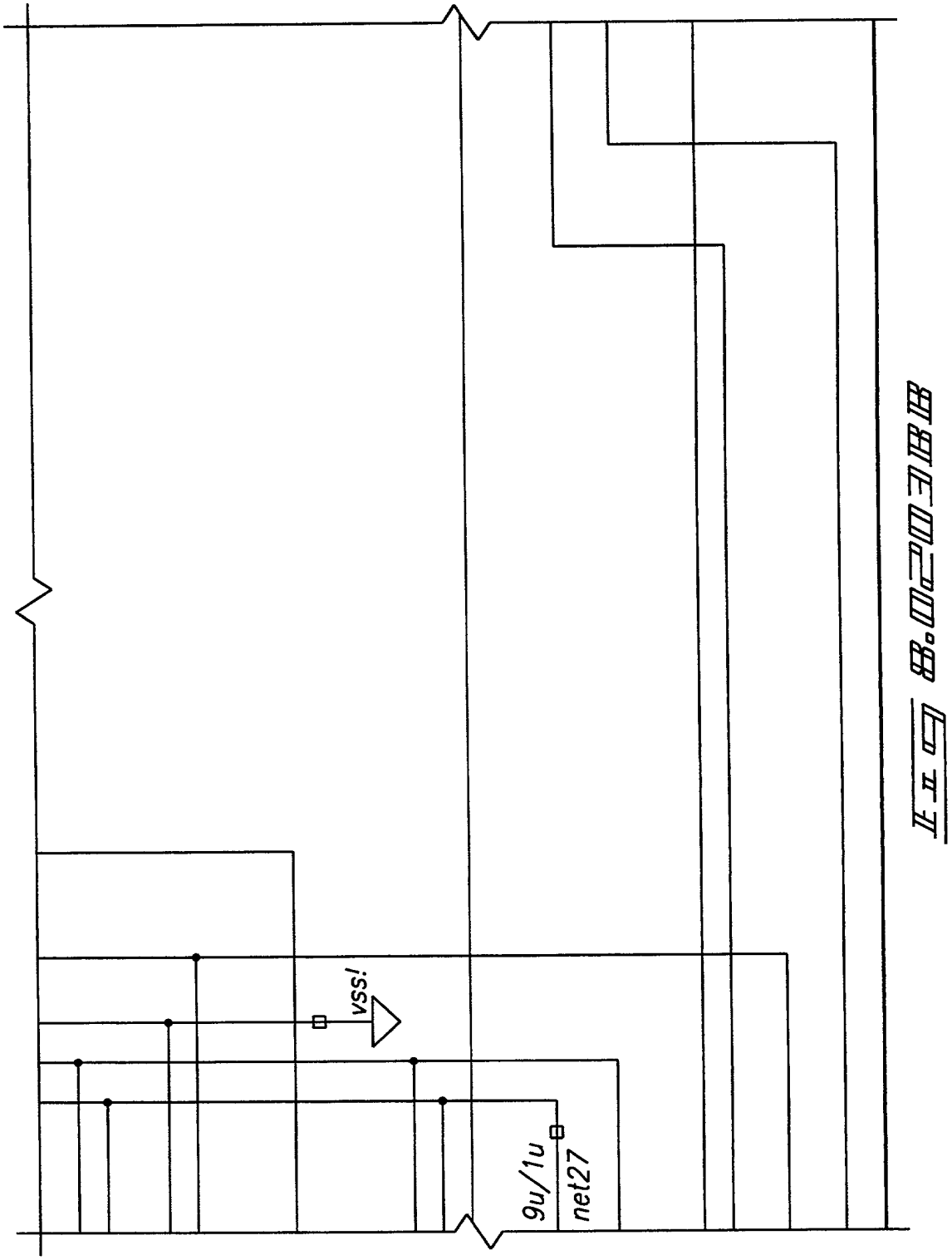


FIG 800.88

Petitpas - 09252934

1328/3273

0562295 - 65.45.64

T0T190"E90232860

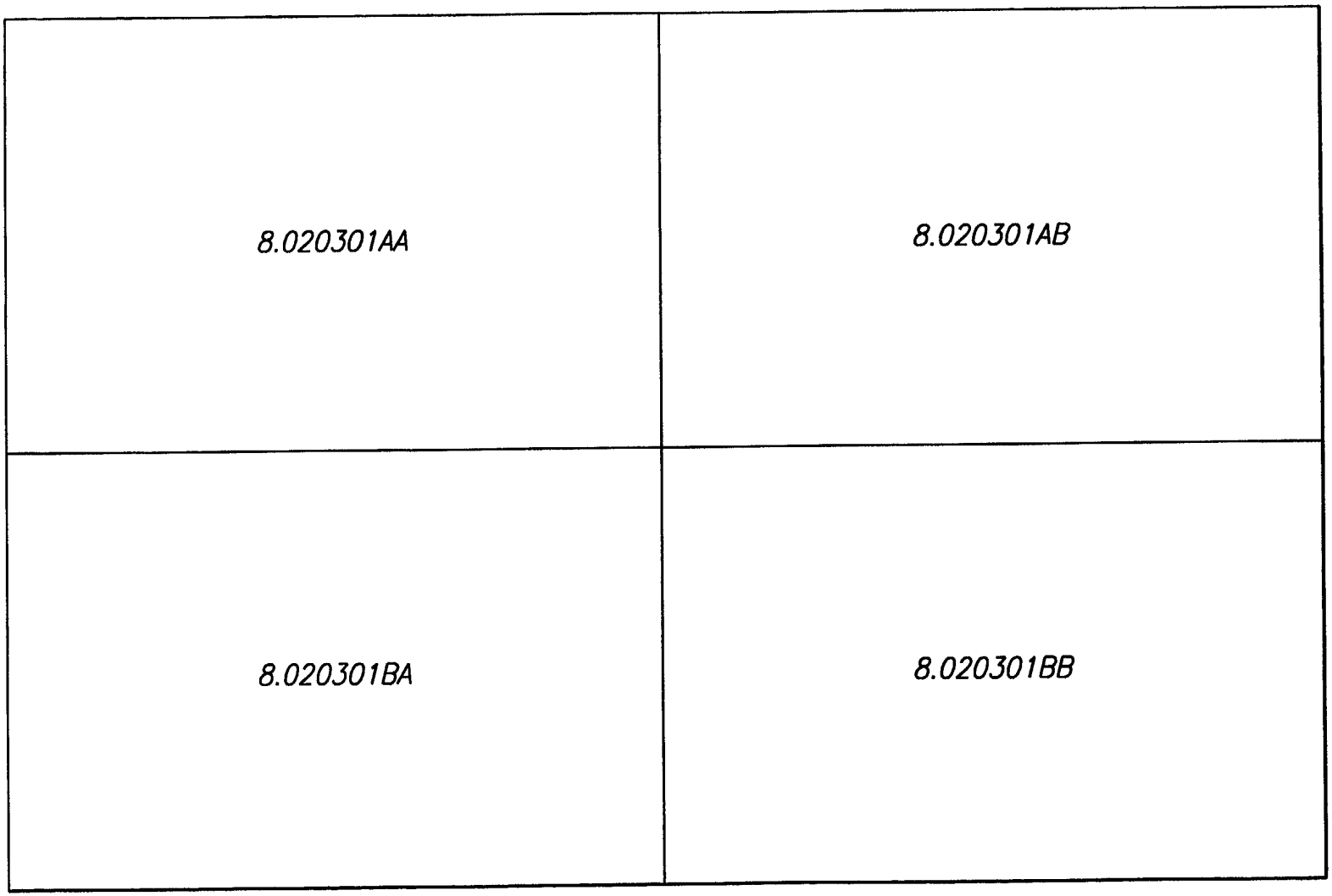


Fig 8.020301

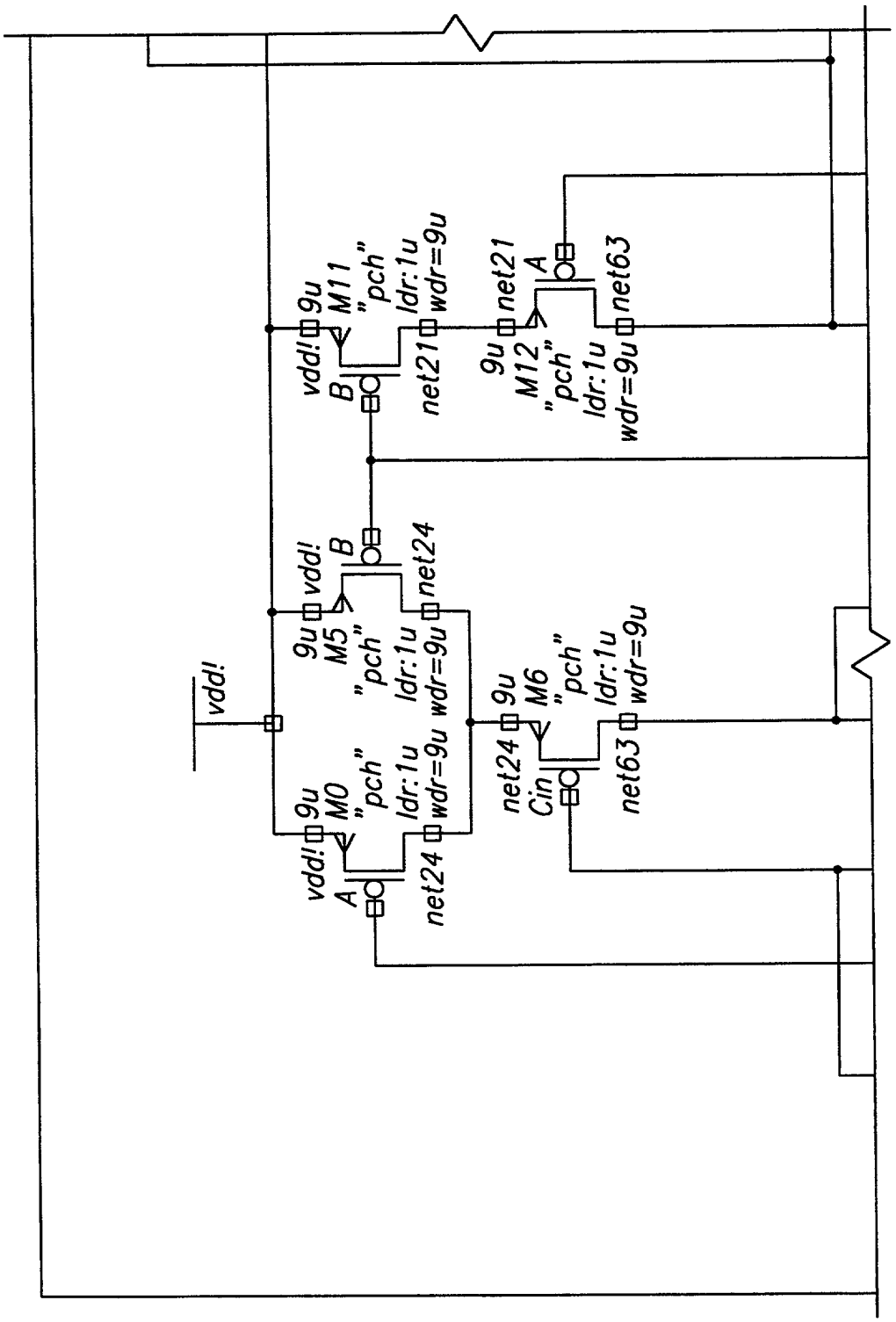


FIG 8.00E00.8 PRIOR ART

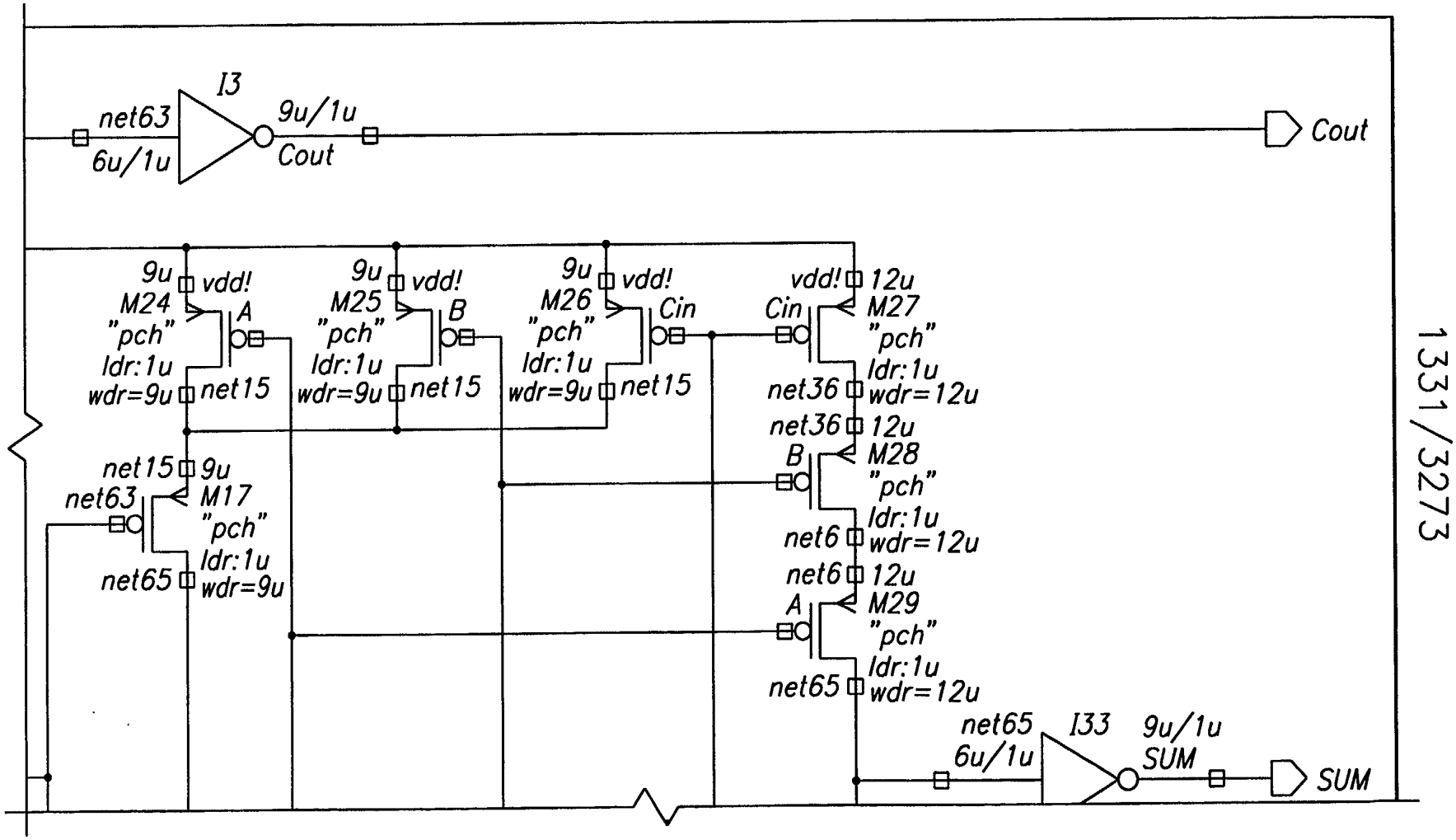
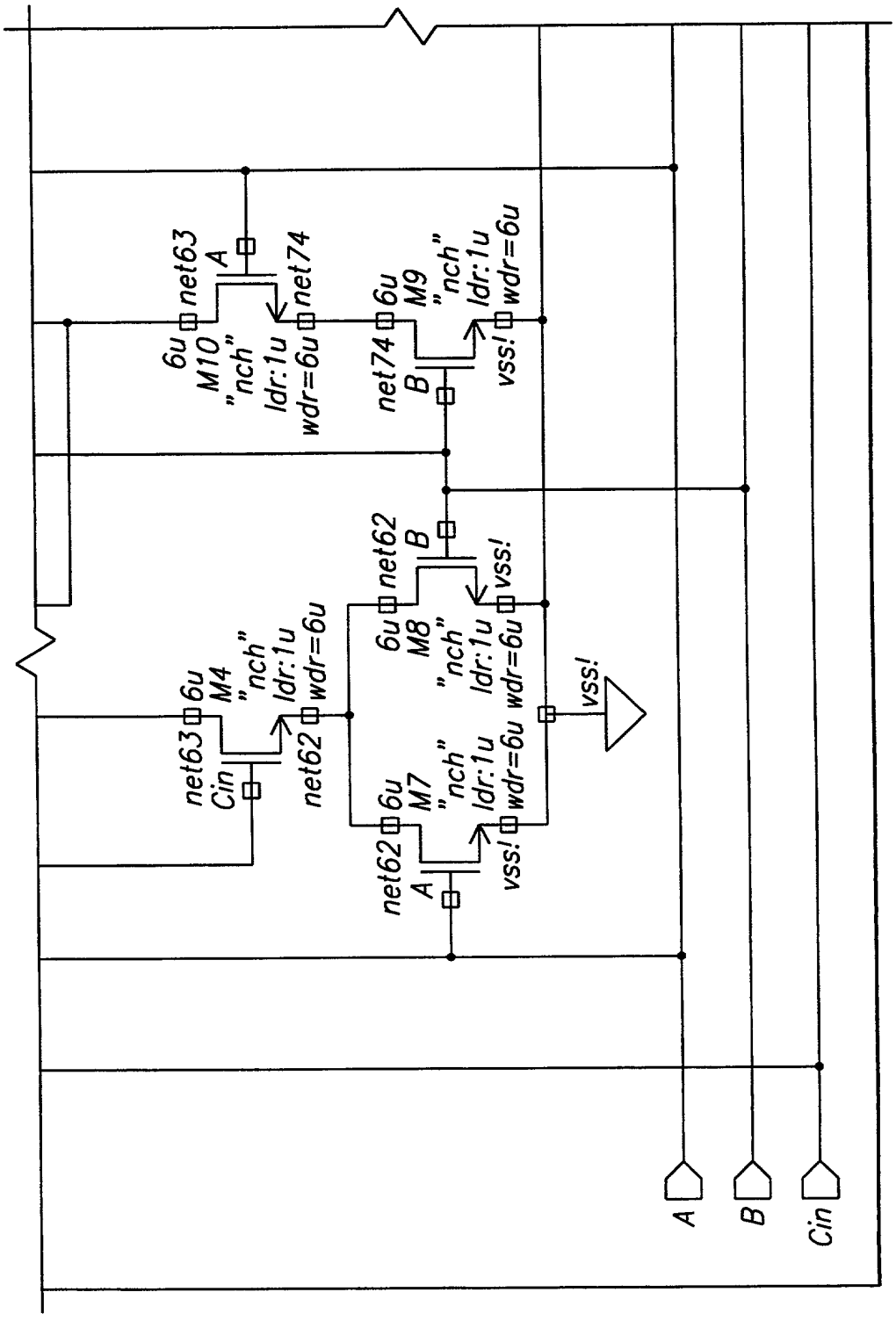


Fig 8.0020301AB


net63
A
6u
M10
"nch"
ldr:1u
wdr=6u
net74
6u
M9
"nch"
ldr:1u
wdr=6u
vss!
net74
B
net62
B
6u
M8
"nch"
ldr:1u
wdr=6u
vss!
vss!
net63
Cin
6u
M4
"nch"
ldr:1u
wdr=6u
net62
net62
A
6u
M7
"nch"
ldr:1u
wdr=6u
vss!
A
B
Cin

Фиг. 8

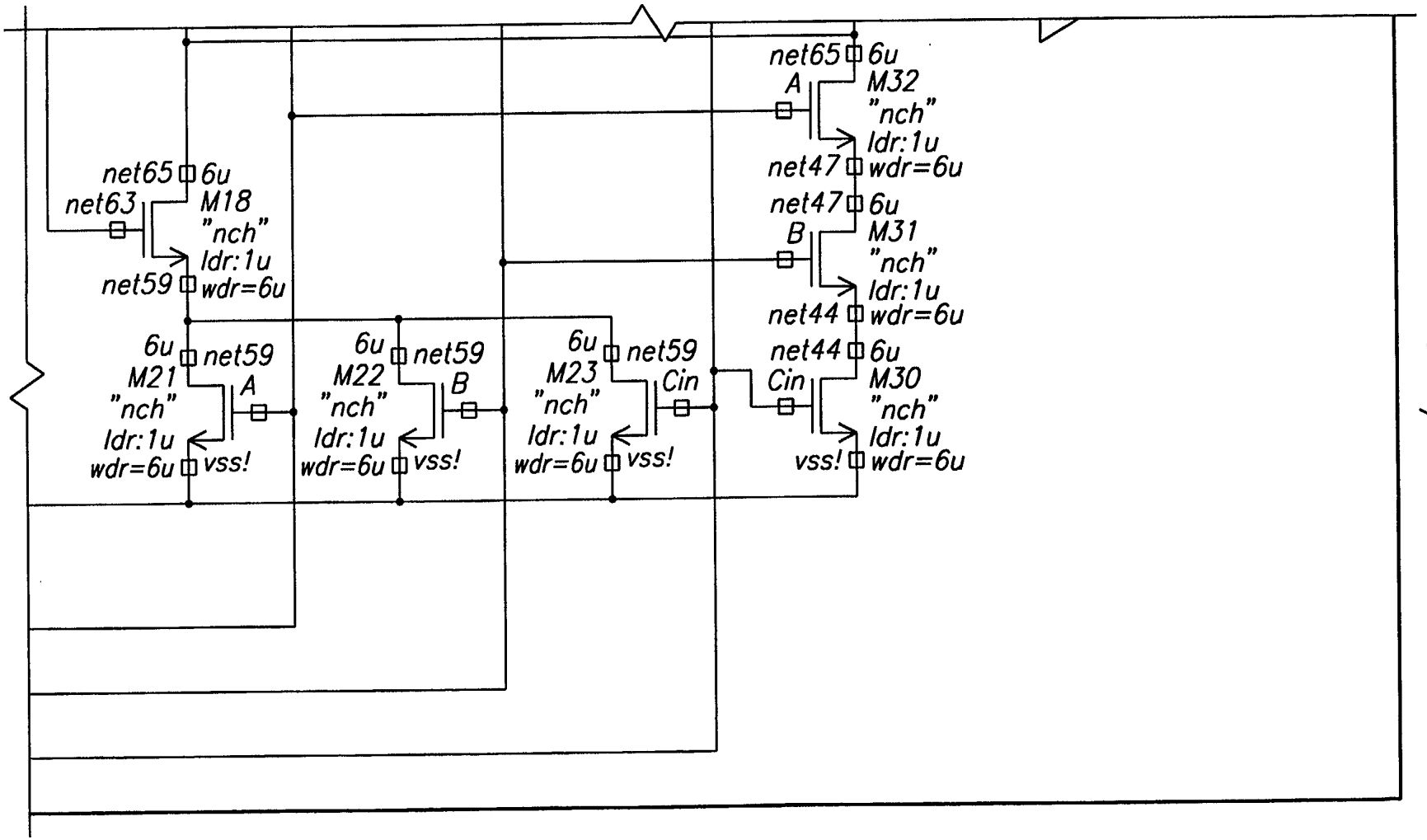


Fig 8.0203018B

T01190 E9023960

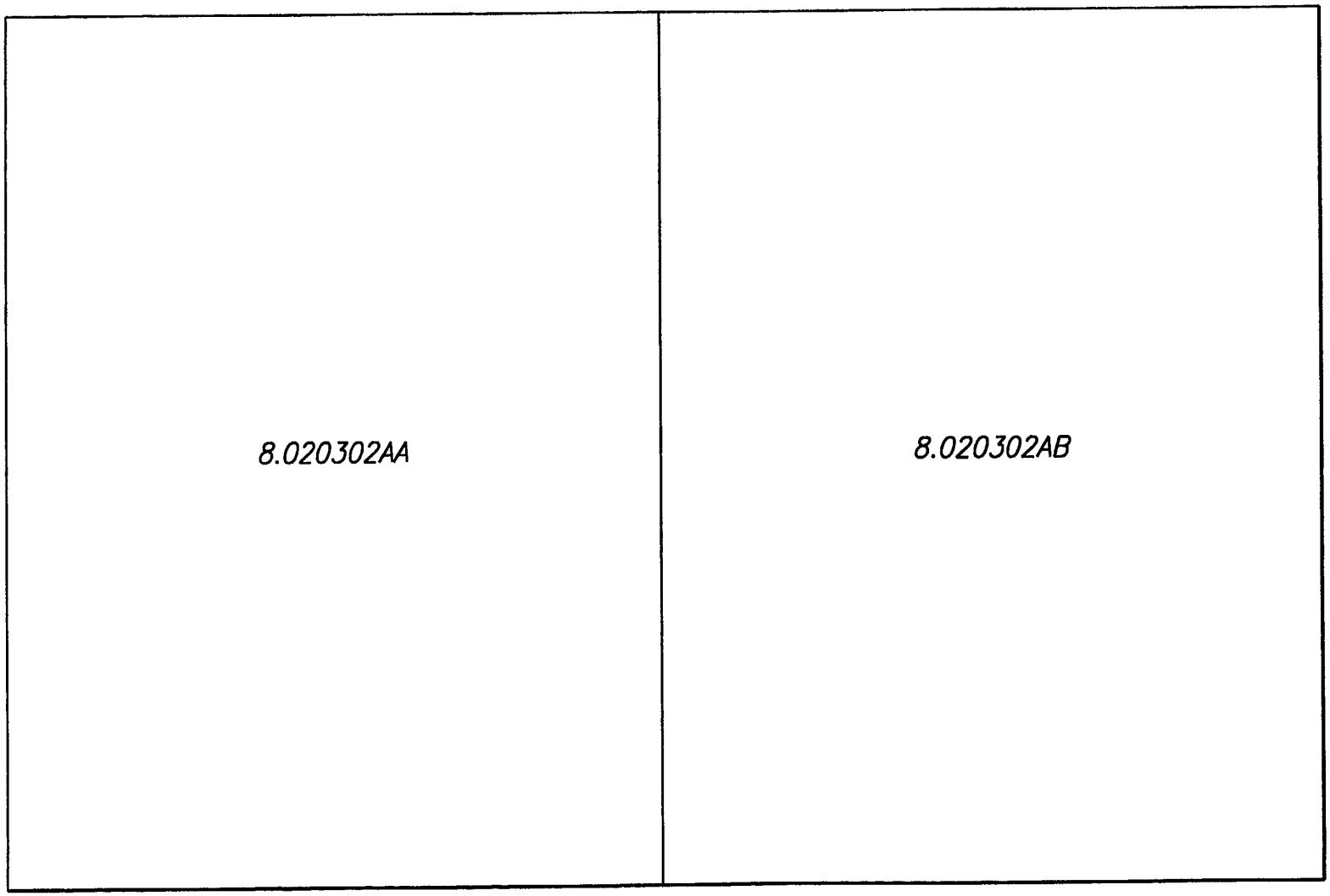
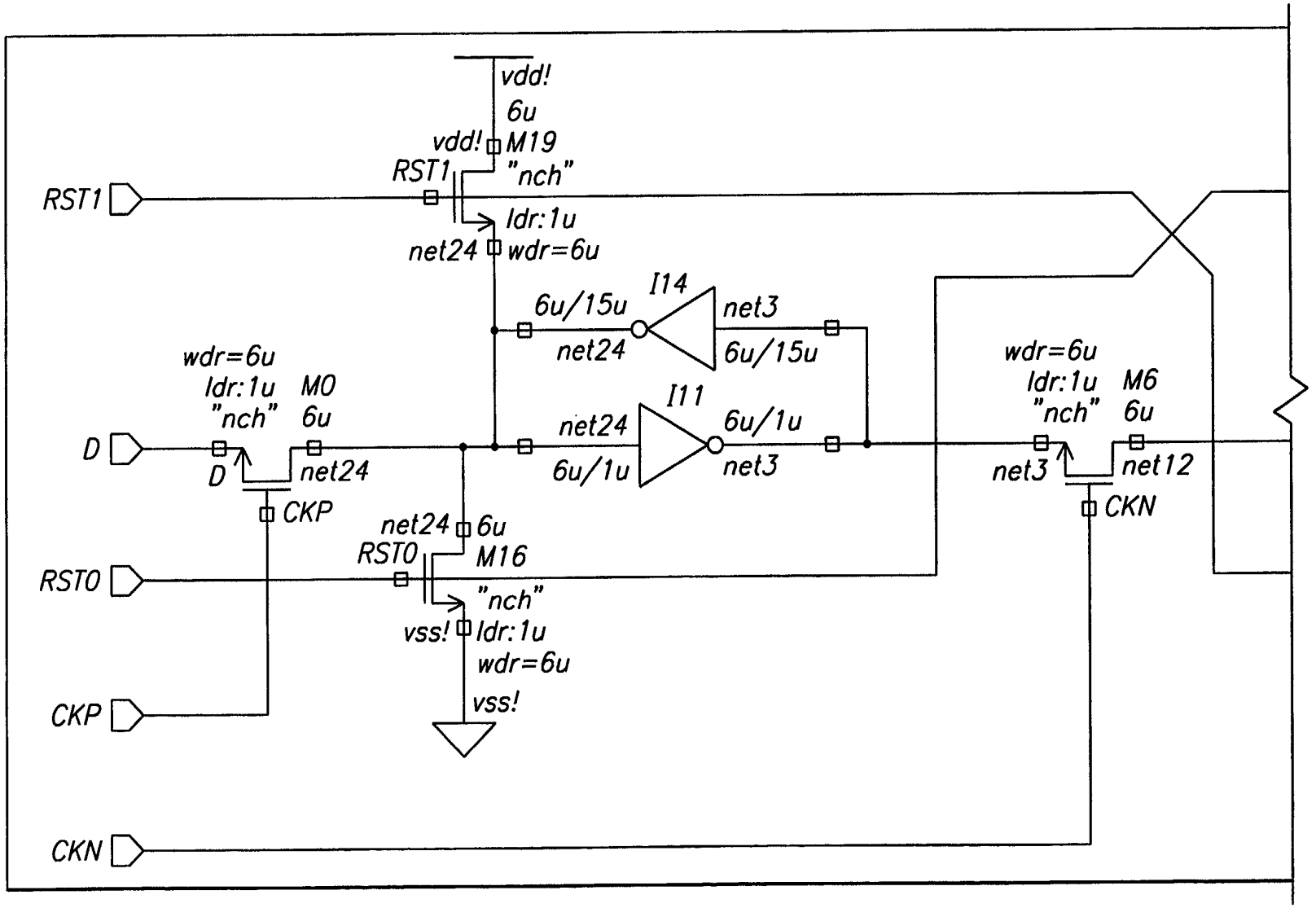
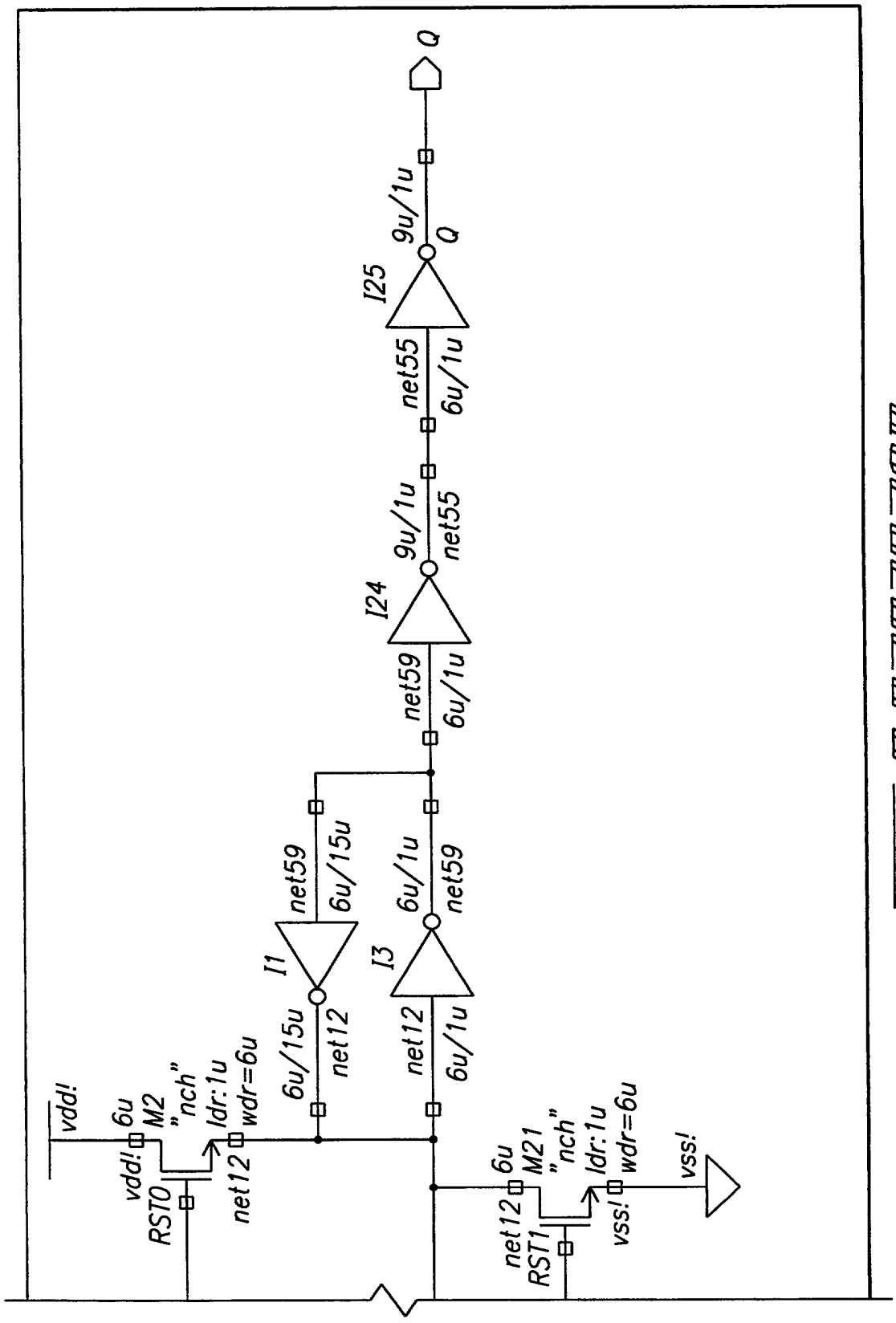


Fig 8.020302



1335/3273

Fig 8.02030202AA



Фиг. 8.02

1015150-20020040

8.0204AA	8.0204AB	8.0204AC	8.0204AD	8.0204AE	8.0204AF	8.0204AG	8.0204AH	8.0204AI	8.0204AJ
8.0204BA	8.0204BB	8.0204BC	8.0204BD	8.0204BE	8.0204BF	8.0204BG	8.0204BH	8.0204BI	
8.0204CA	8.0204CB	8.0204CC	8.0204CD	8.0204CE	8.0204CF	8.0204CG	8.0204CH	8.0204CI	
8.0204DA	8.0204DB	8.0204DC	8.0204DD	8.0204DE	8.0204DF	8.0204DG	8.0204DH	8.0204DI	
8.0204EA	8.0204EB	8.0204EC	8.0204ED	8.0204EE	8.0204EF	8.0204EG	8.0204EH	8.0204EI	8.0204EJ

Fig 8.0204

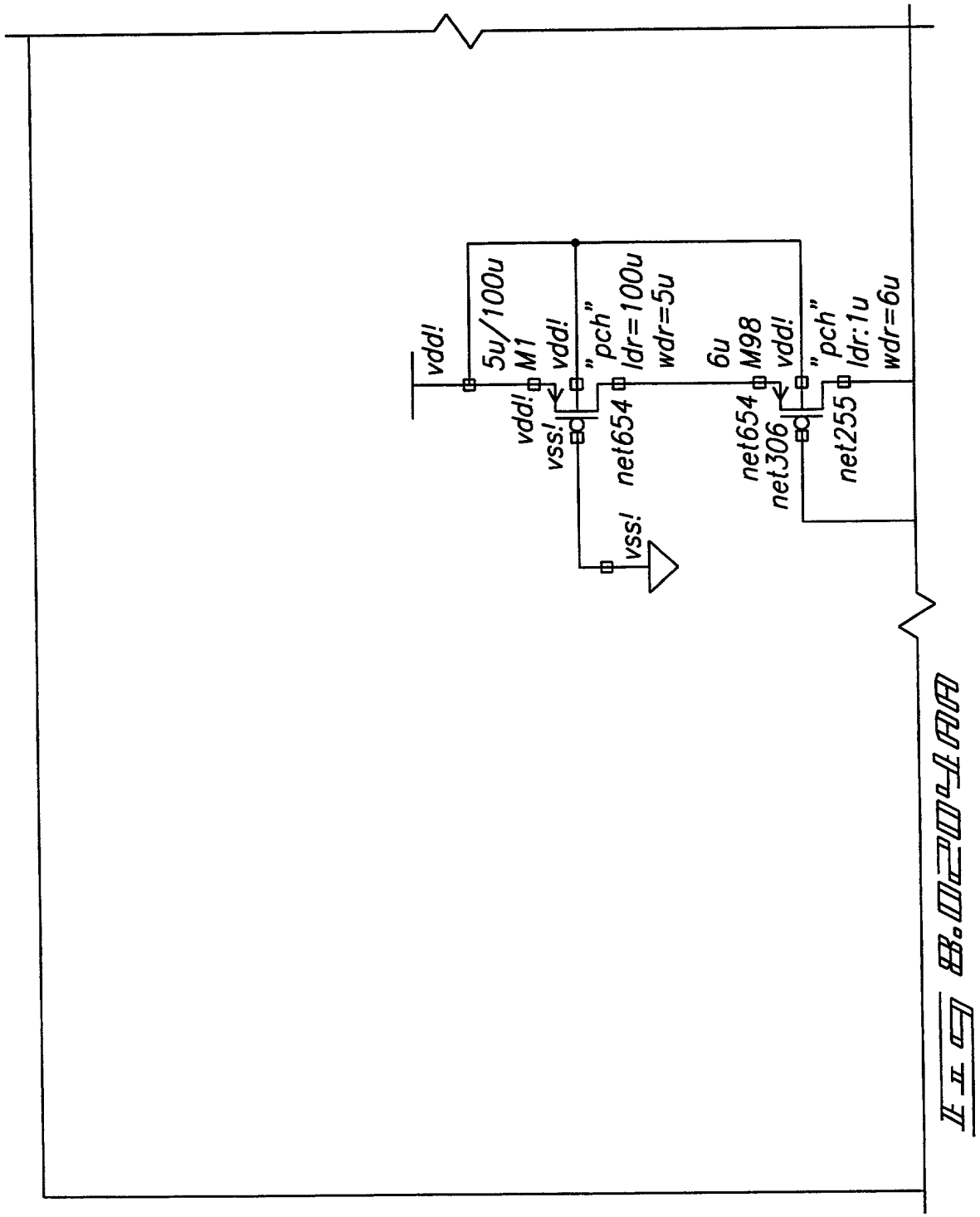


FIG 8.00200.88

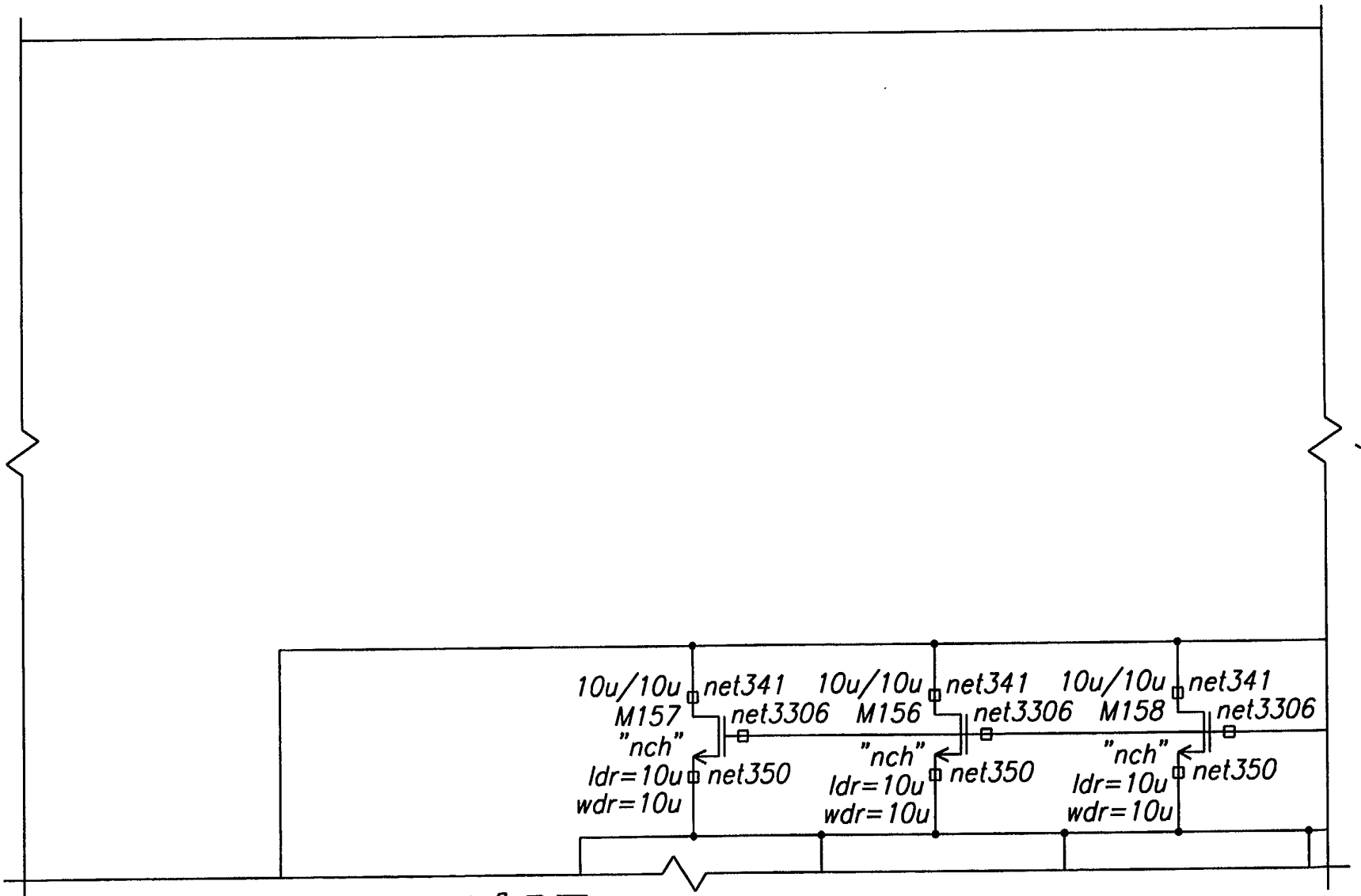
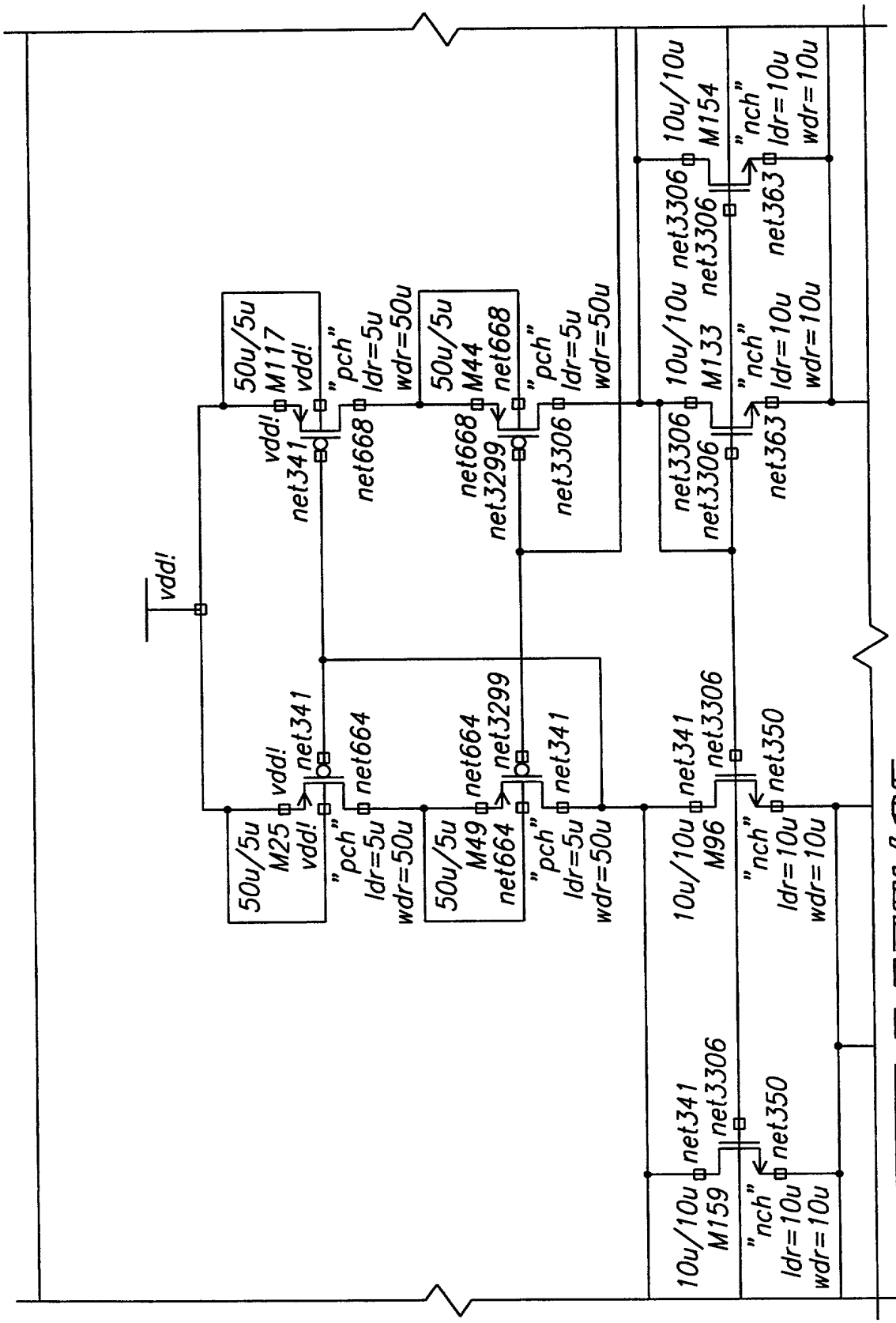


FIG 8.0204A0B



Фиг. 8.0002

Interpoint-2502650

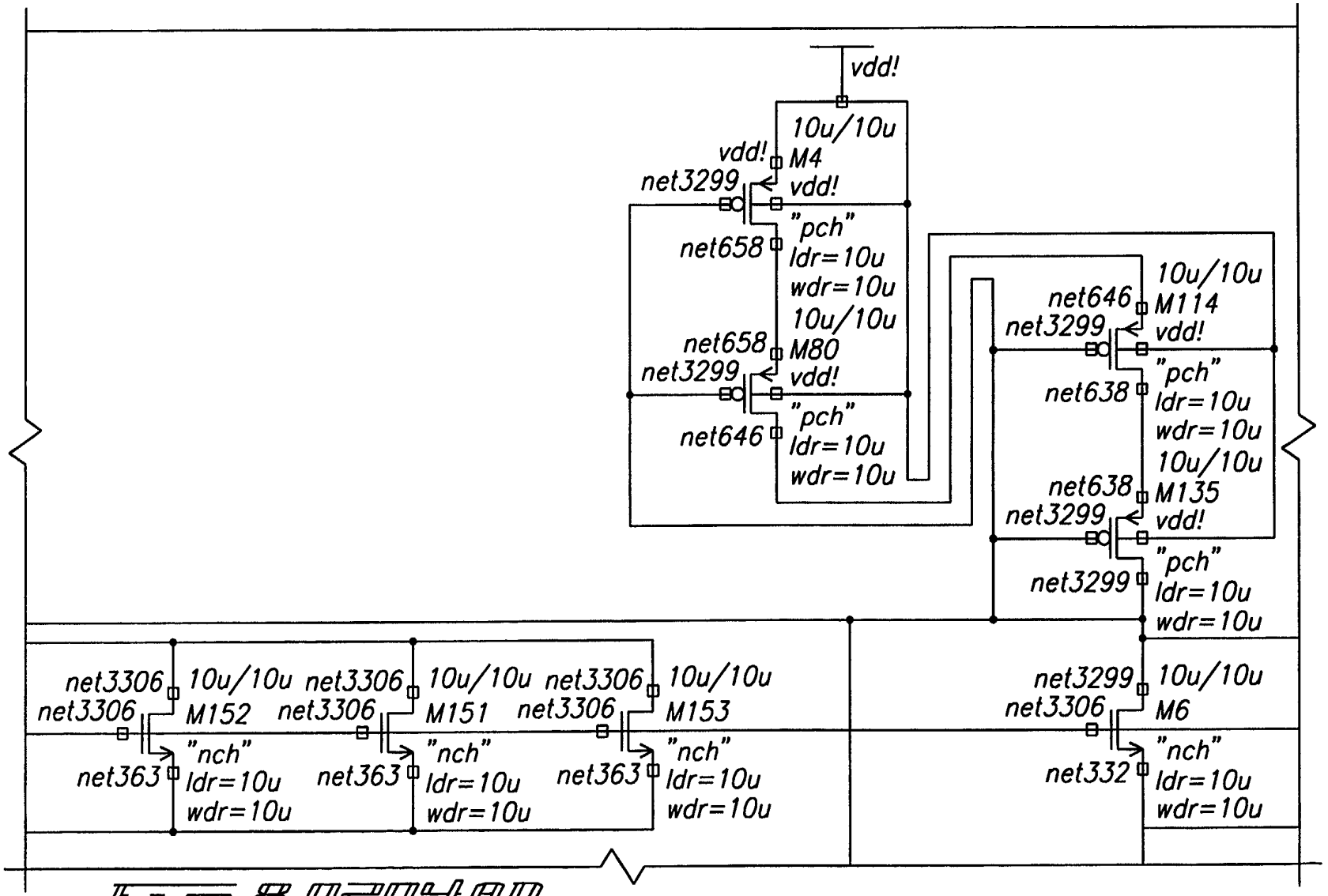
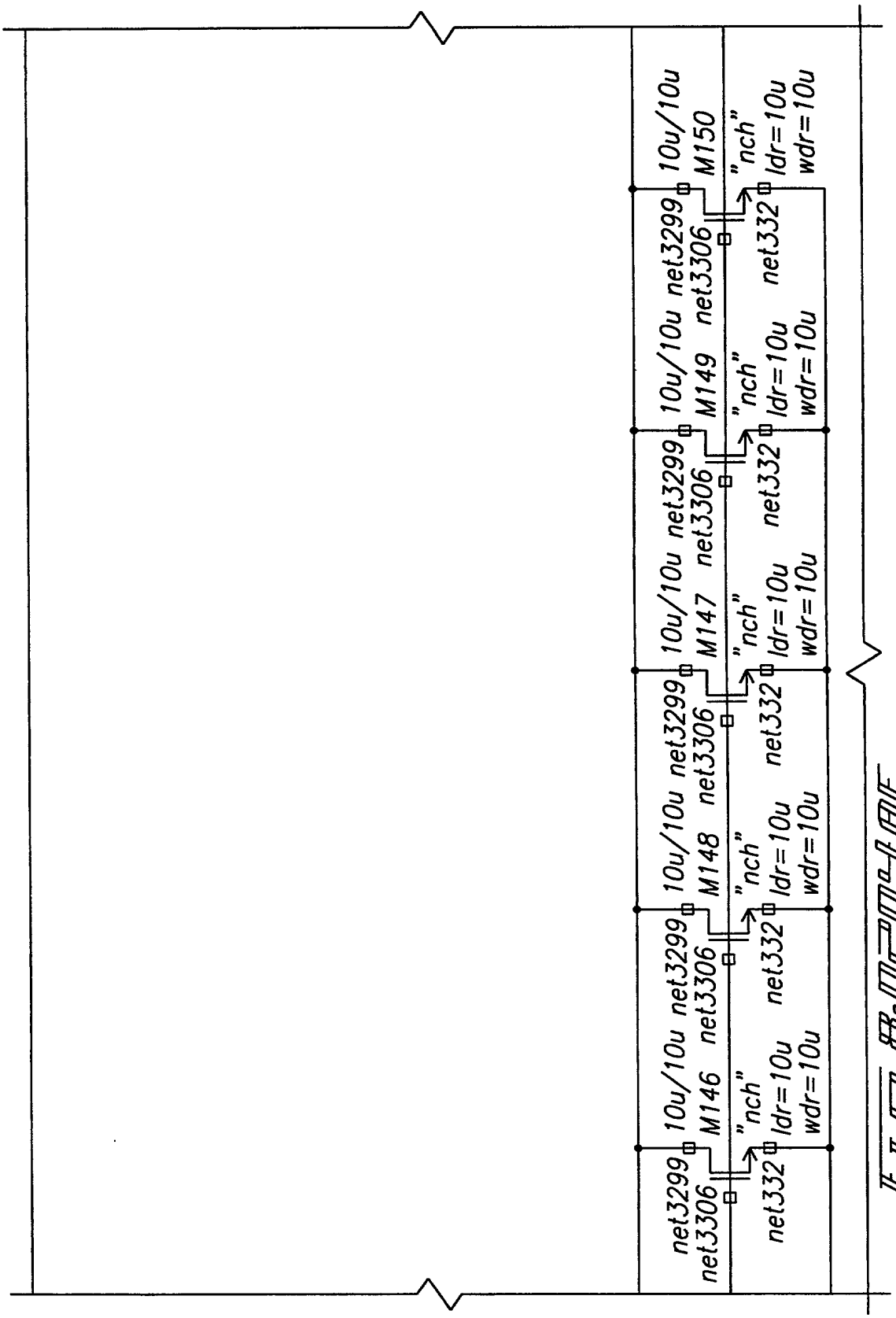


Fig 8.02044AD



US006124640A

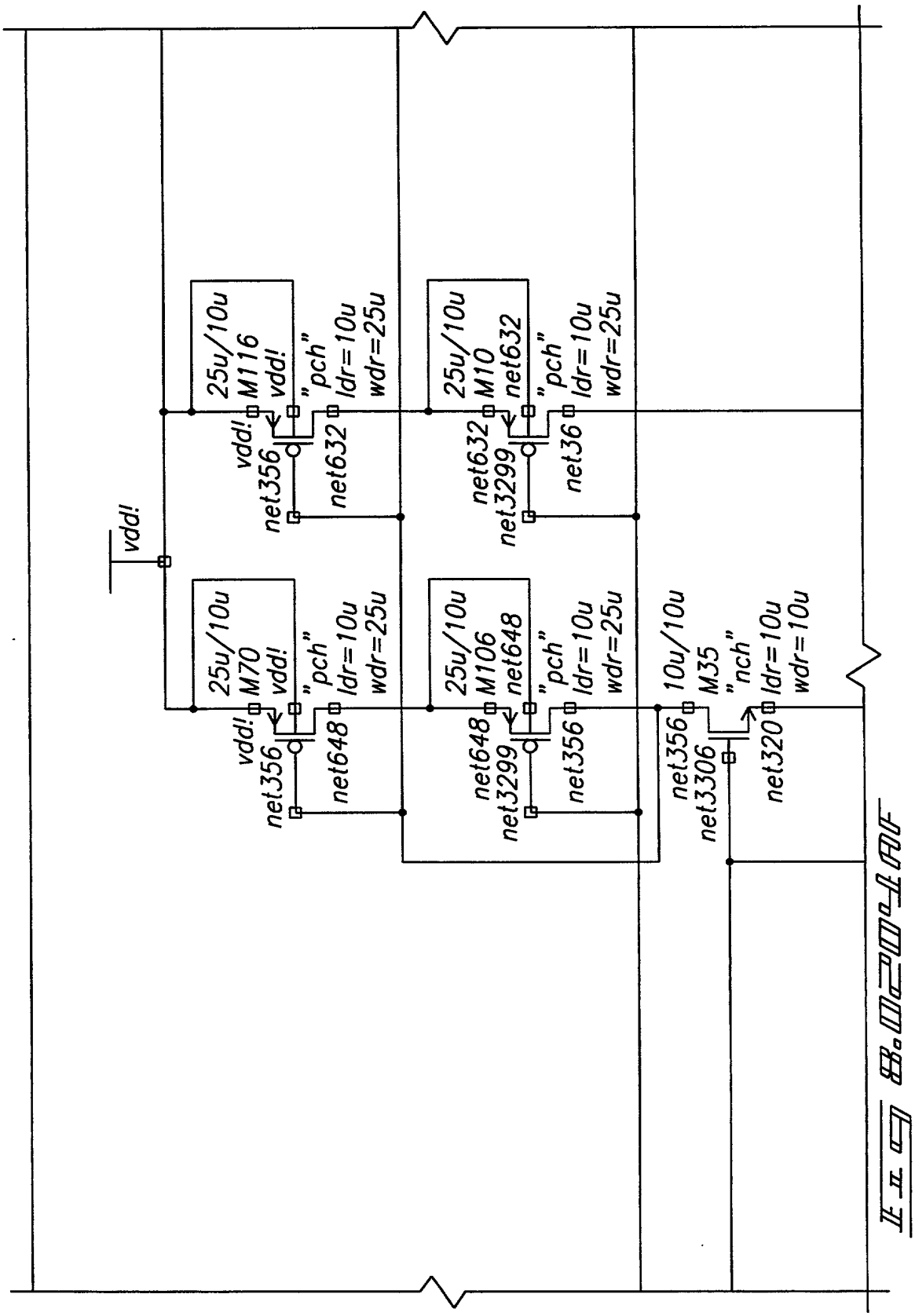
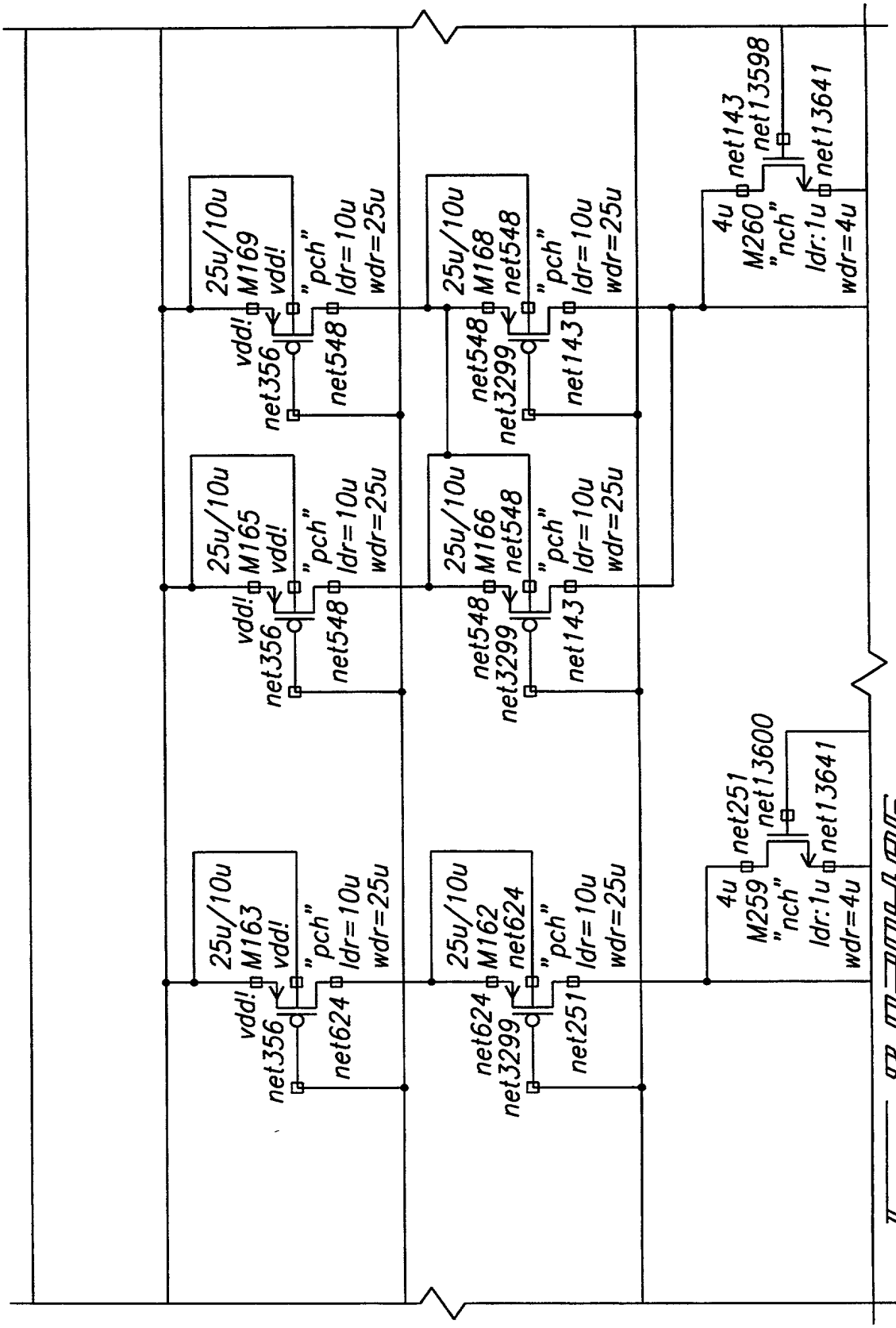
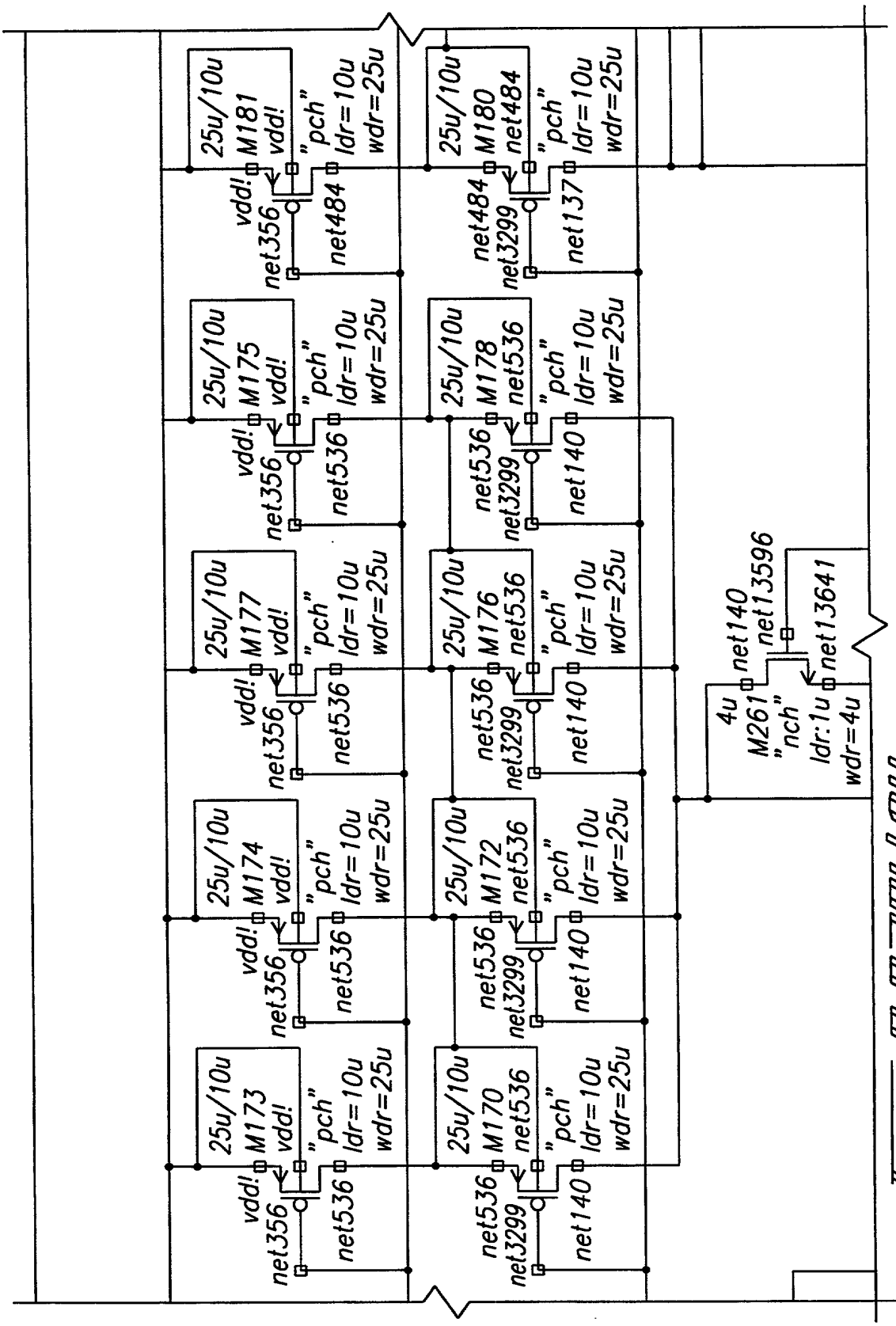
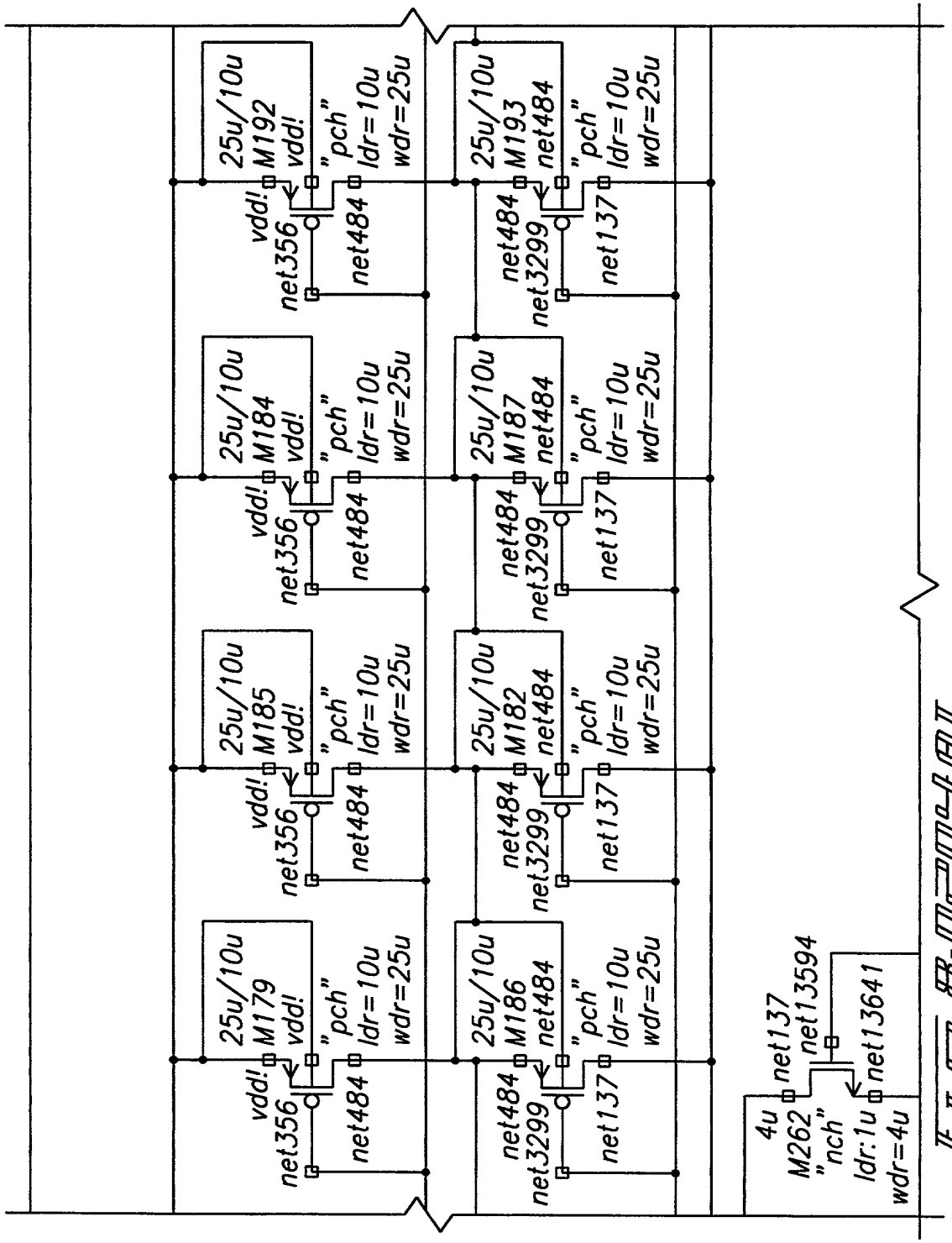


FIG 8.00E-AF

Patent 2502284


25u/10u M169 vdd! "pch" ldr=10u wdr=25u
vdd! net356
net548
25u/10u M165 vdd! "pch" ldr=10u wdr=25u
vdd! net356
net548
25u/10u M163 vdd! "pch" ldr=10u wdr=25u
vdd! net356
net624
25u/10u M168 net548 "pch" ldr=10u wdr=25u
net548 net3299
net143
25u/10u M166 net548 "pch" ldr=10u wdr=25u
net548 net3299
net143
25u/10u M162 net624 "pch" ldr=10u wdr=25u
net624 net3299
net251
4u M260 net143 net13598 "nch" ldr:1u wdr=4u net13641
4u M259 net251 net13600 "nch" ldr:1u wdr=4u net13641


25u/10u M181 vdd! "pch" ldr=10u wdr=25u
25u/10u M180 net484 "pch" ldr=10u wdr=25u
25u/10u M175 vdd! "pch" ldr=10u wdr=25u
25u/10u M178 net536 "pch" ldr=10u wdr=25u
25u/10u M177 vdd! "pch" ldr=10u wdr=25u
25u/10u M176 net536 "pch" ldr=10u wdr=25u
25u/10u M174 vdd! "pch" ldr=10u wdr=25u
25u/10u M172 net536 "pch" ldr=10u wdr=25u
25u/10u M173 vdd! "pch" ldr=10u wdr=25u
25u/10u M170 net536 "pch" ldr=10u wdr=25u
4u M261 "nch" ldr:1u wdr=4u
net140
net13596
net13641
vdd!
net356
net484
net3299
net137
net536
net140


25u/10u
M179
vdd!
"pch"
ldr=10u
wdr=25u
net356
net484
25u/10u
M185
vdd!
"pch"
ldr=10u
wdr=25u
net356
net484
25u/10u
M184
vdd!
"pch"
ldr=10u
wdr=25u
net356
net484
25u/10u
M192
vdd!
"pch"
ldr=10u
wdr=25u
net356
net484
25u/10u
M186
net484
"pch"
ldr=10u
wdr=25u
net3299
net137
25u/10u
M182
net484
"pch"
ldr=10u
wdr=25u
net3299
net137
25u/10u
M187
net484
"pch"
ldr=10u
wdr=25u
net3299
net137
25u/10u
M193
net484
"pch"
ldr=10u
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net3299
net137
4u
M262
"nch"
ldr:1u
wdr=4u
net137
net13594
net13641

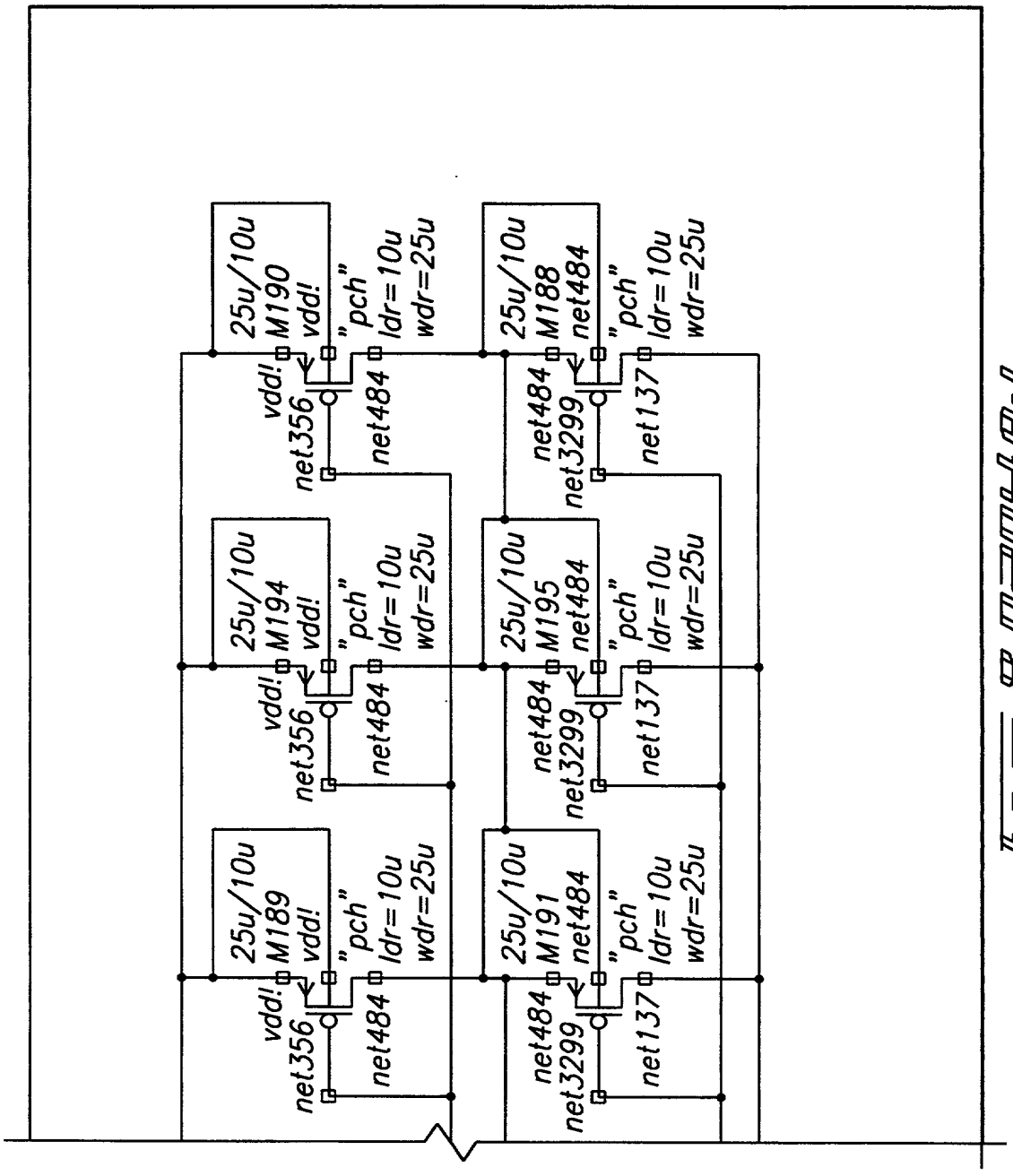
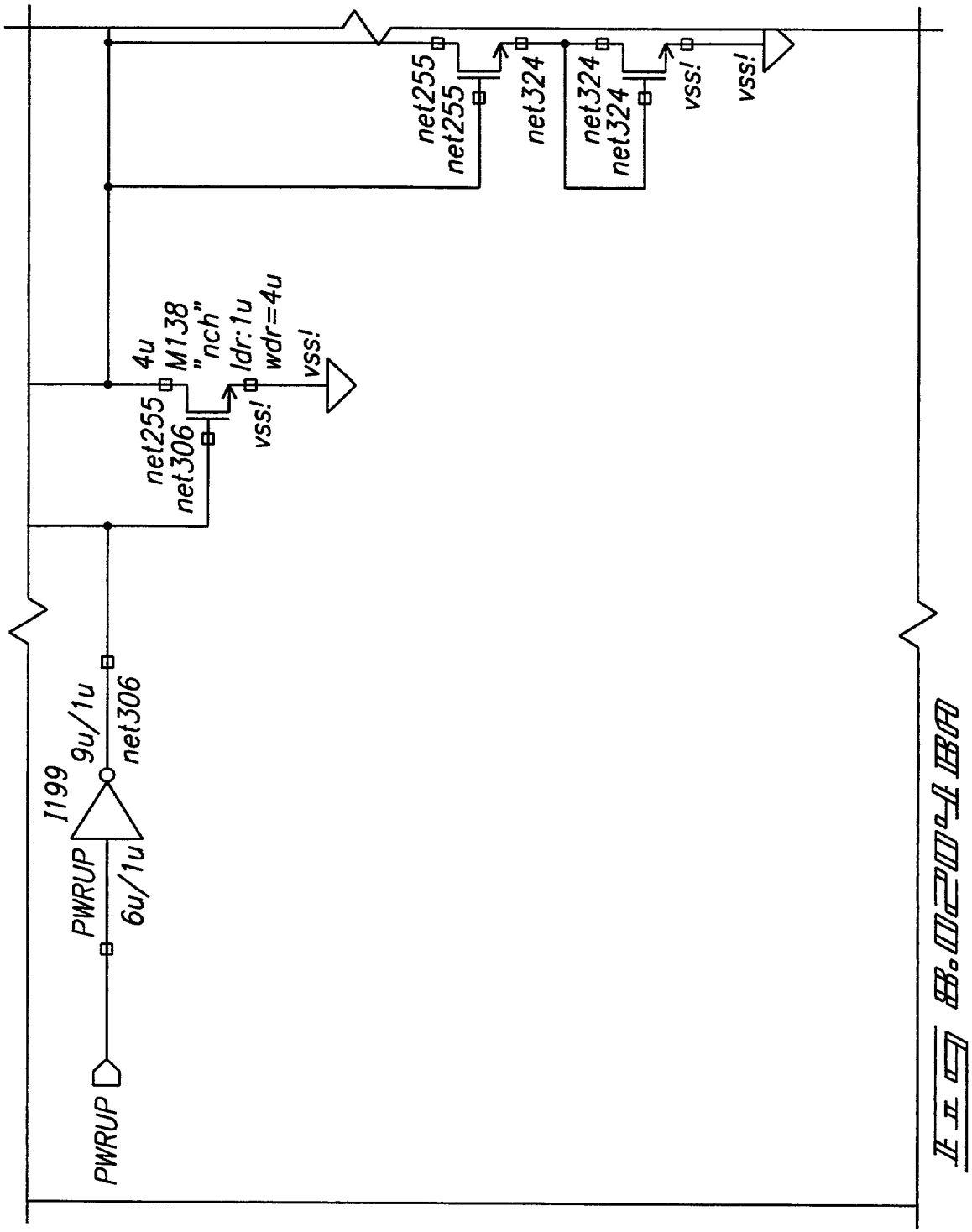

25u/10u
M190
vdd!
"pch"
ldr=10u
wdr=25u
net356
net484
25u/10u
M188
net484
net3299
net137
25u/10u
M194
25u/10u
M195
25u/10u
M189
25u/10u
M191

FIG 8


net255
net255
net324
net324
net324
vss!
vss!
4u
M138
"nch"
ldr:1u
wdr=4u
vss!
net255
net306
vss!
I199
9u/1u
net306
PWRUP
6u/1u
PWRUP

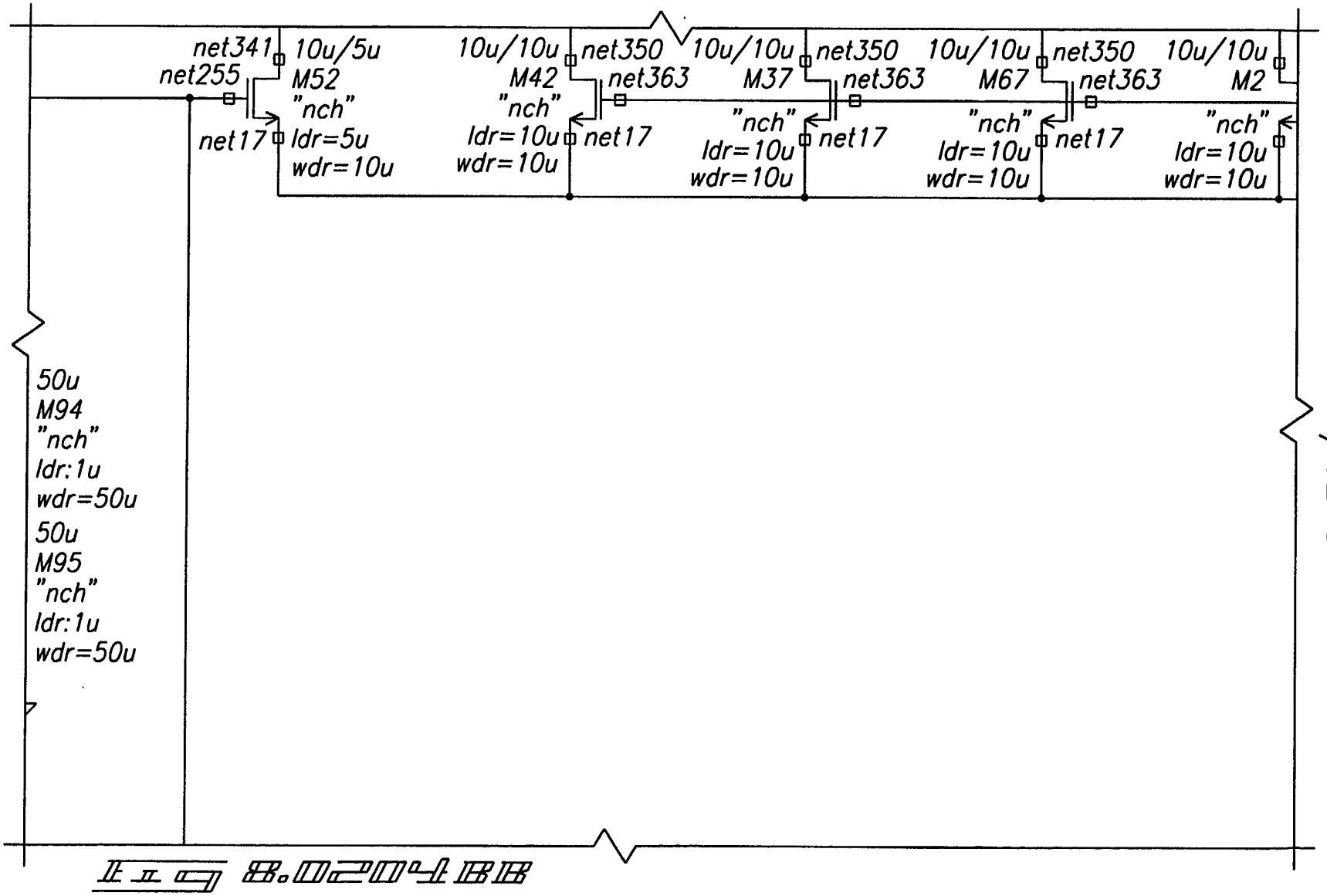
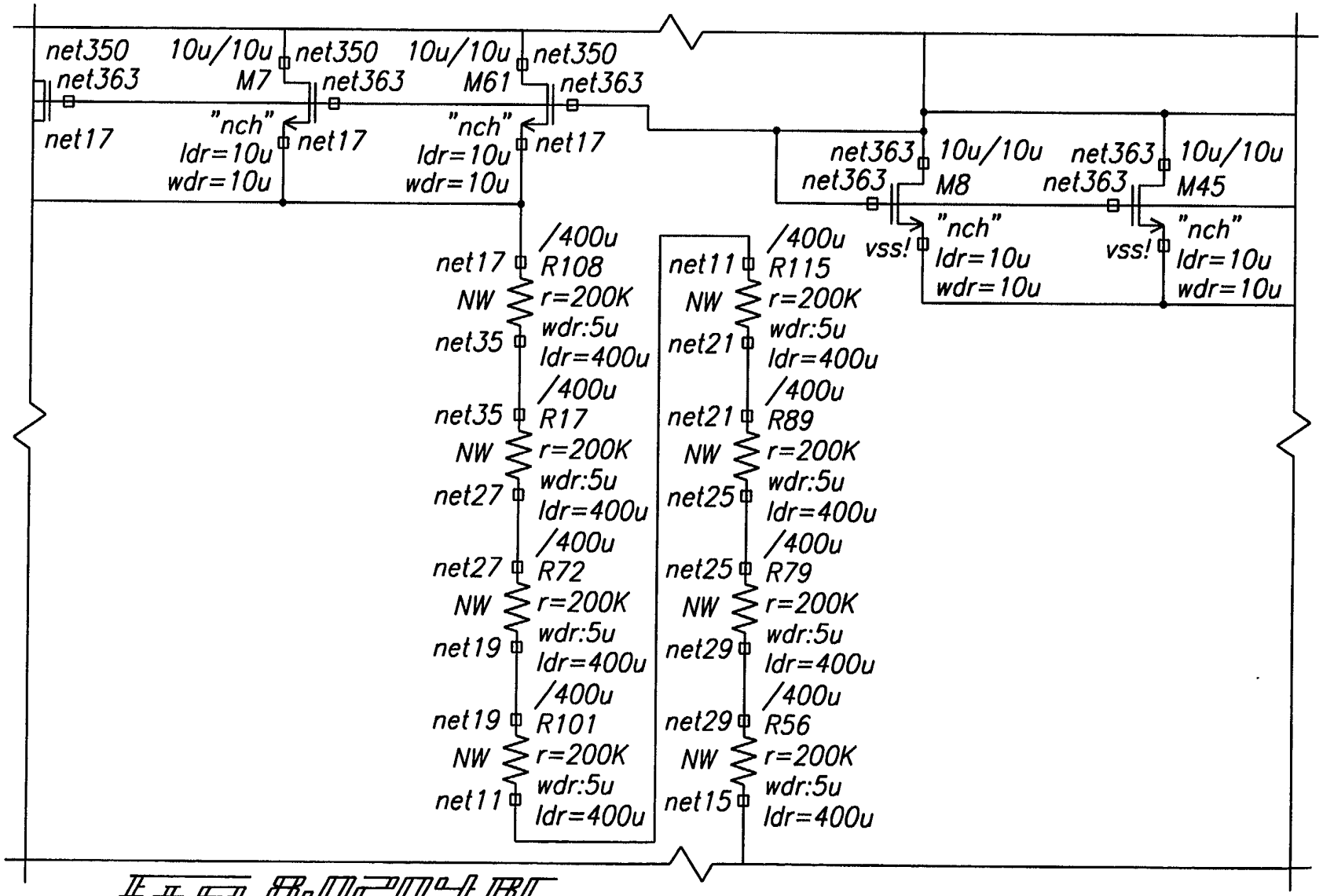


Fig 8.02048BB



1350/3273

Fig 8.0204BC

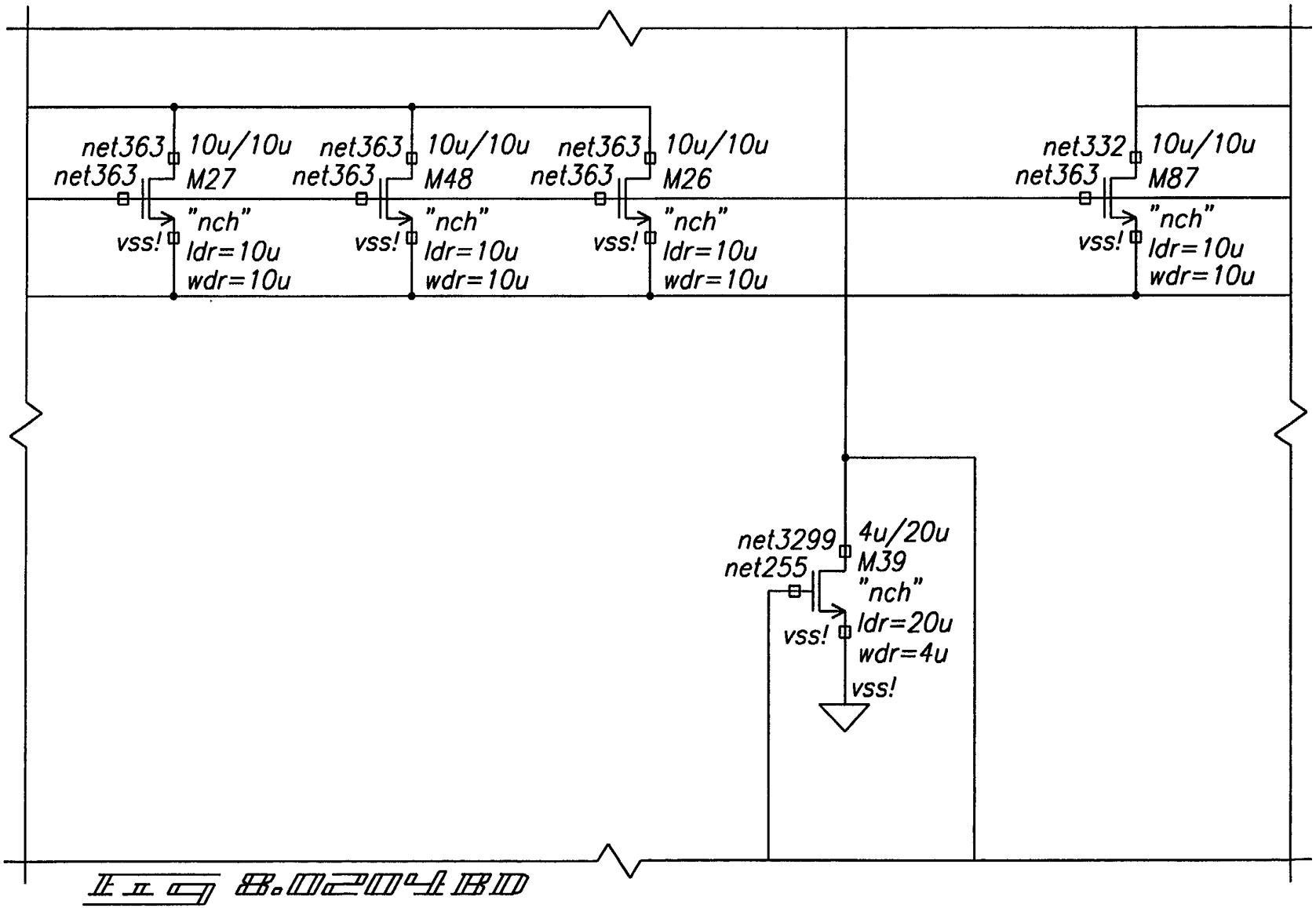


Fig 8.802048B0

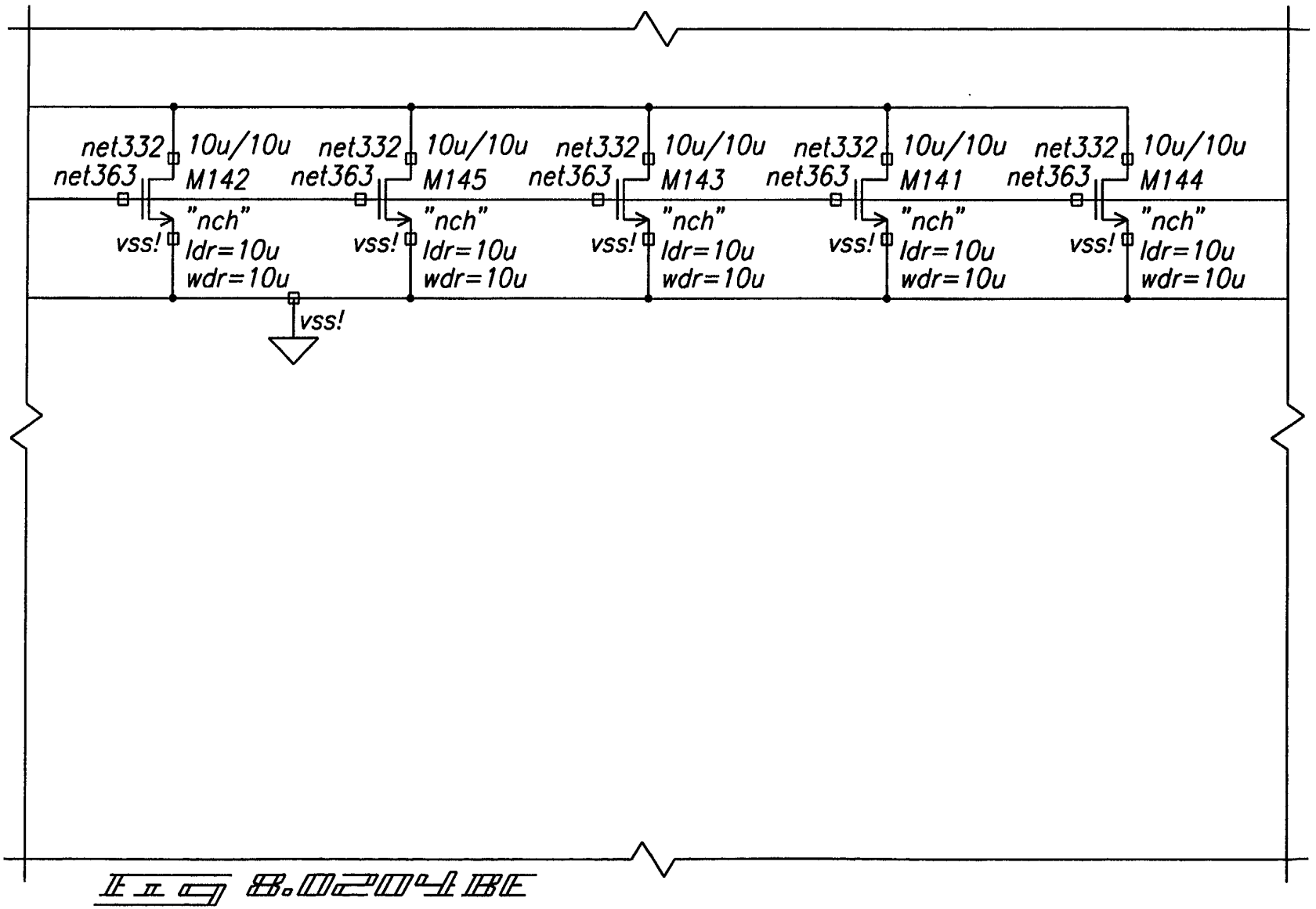

net332
net363
10u/10u
M142
"nch"
ldr=10u
wdr=10u
vss!
net332
net363
10u/10u
M145
"nch"
ldr=10u
wdr=10u
vss!
net332
net363
10u/10u
M143
"nch"
ldr=10u
wdr=10u
vss!
net332
net363
10u/10u
M141
"nch"
ldr=10u
wdr=10u
vss!
net332
net363
10u/10u
M144
"nch"
ldr=10u
wdr=10u
vss!
vss!

Fig 8.0204BE

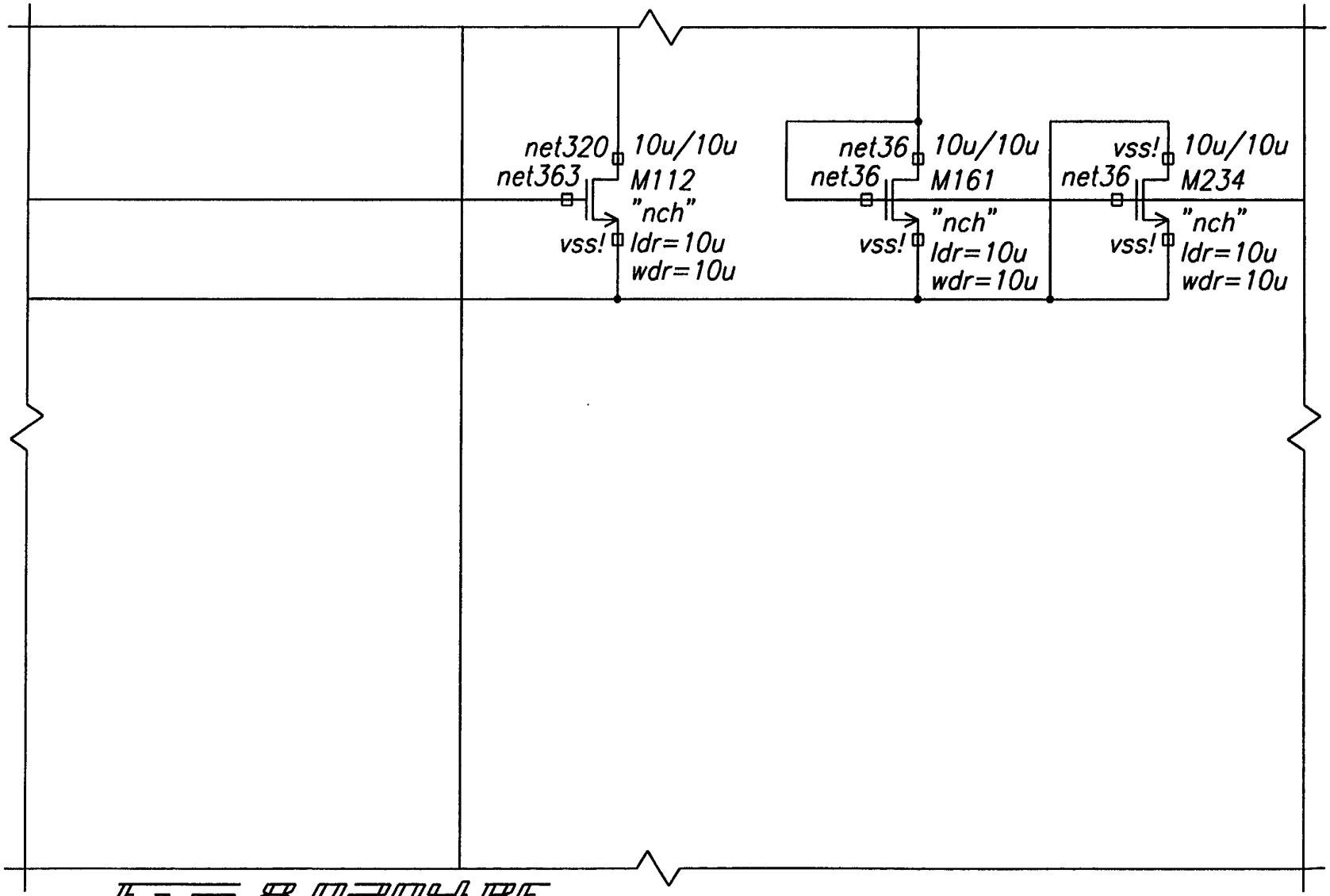
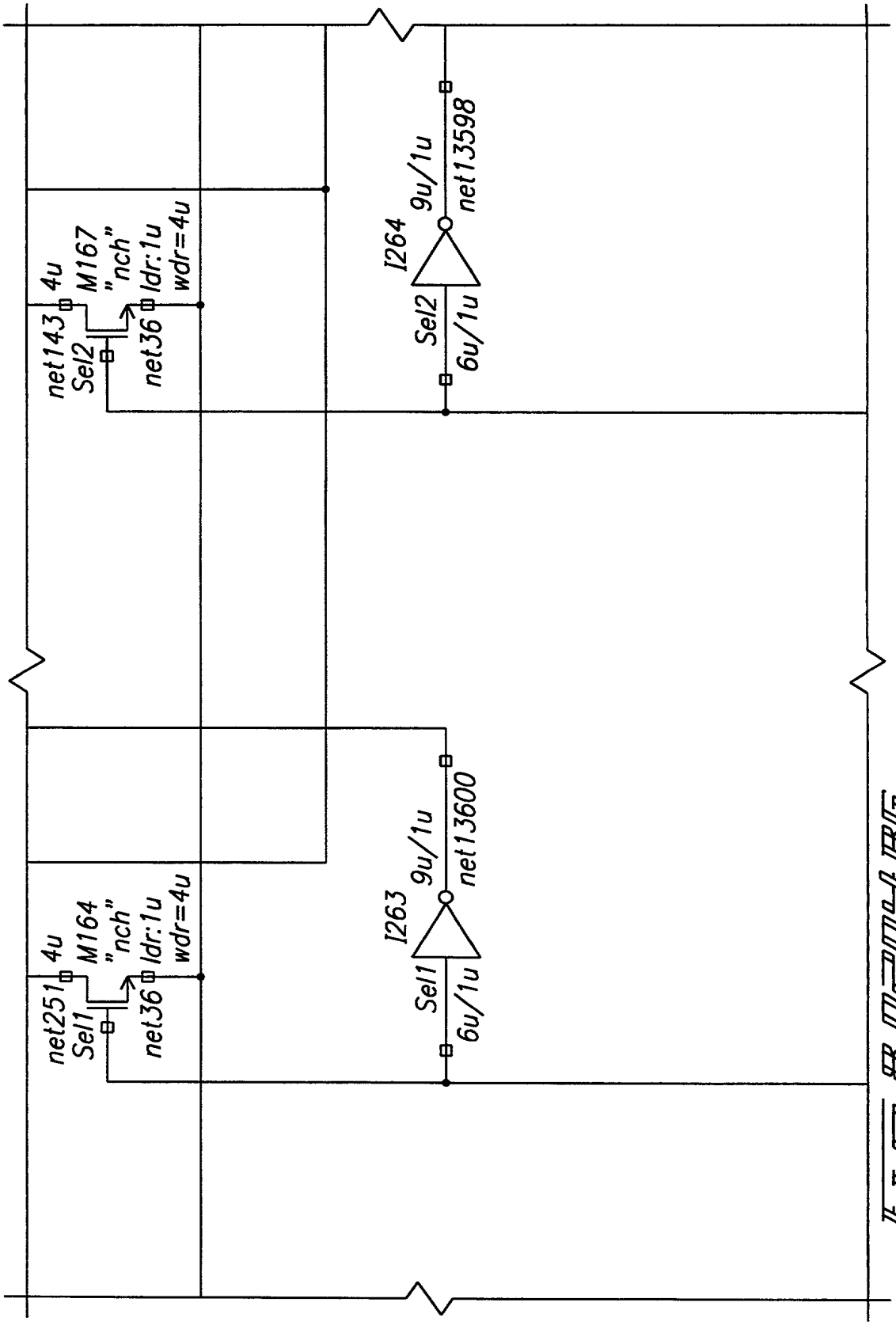


Fig 8.02048BF



Фиг. 8.2004 ВВ

Patent application publication

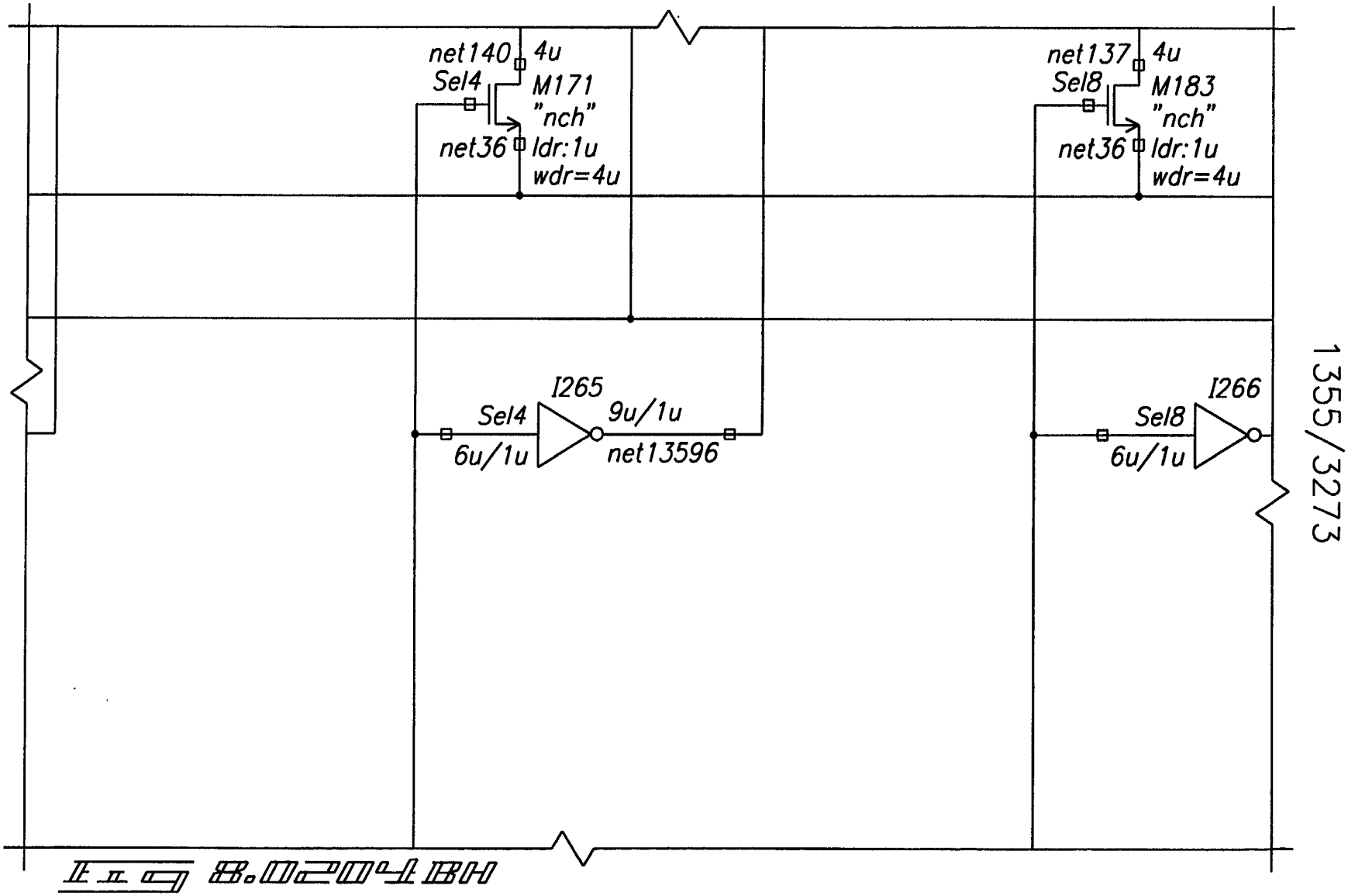
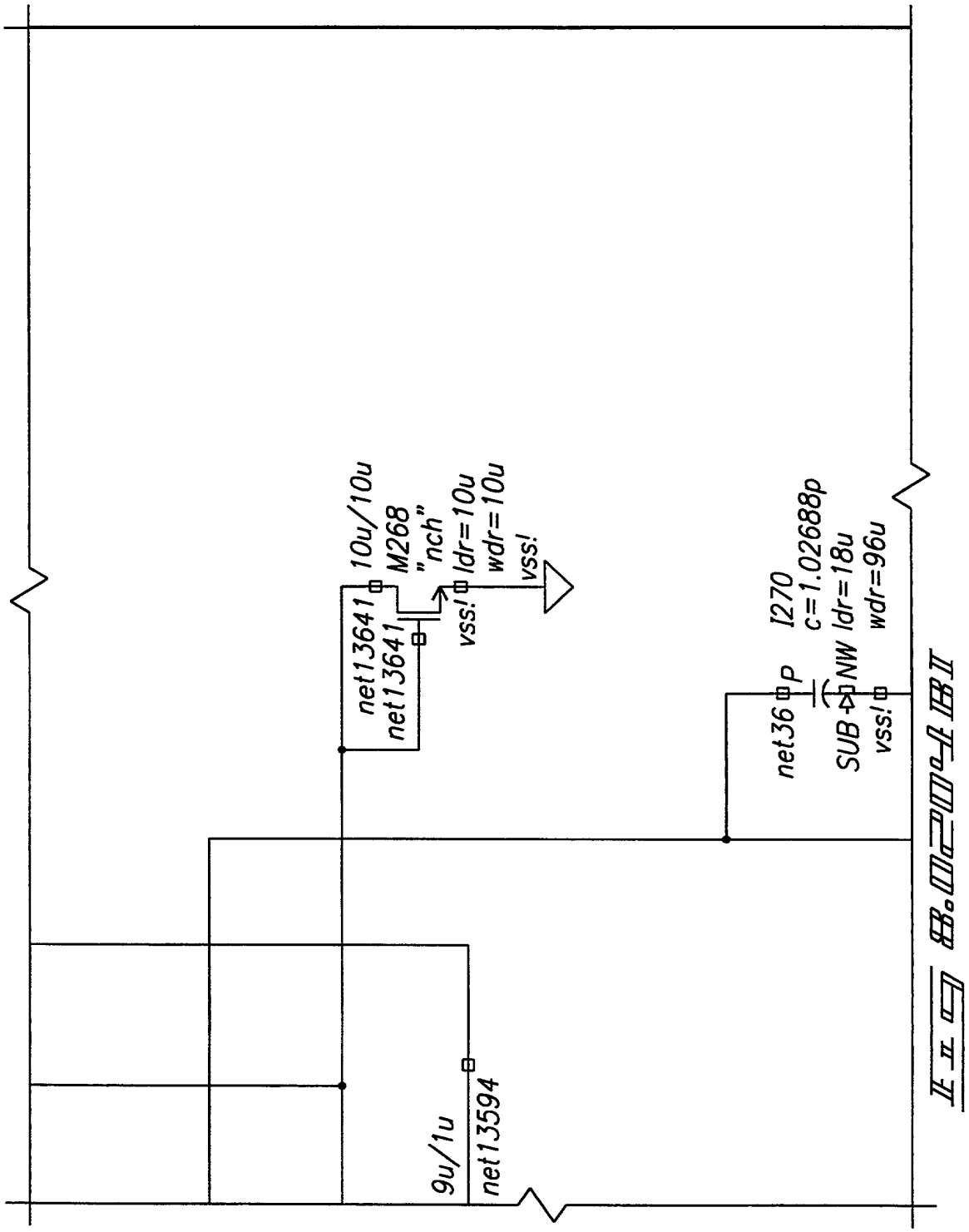
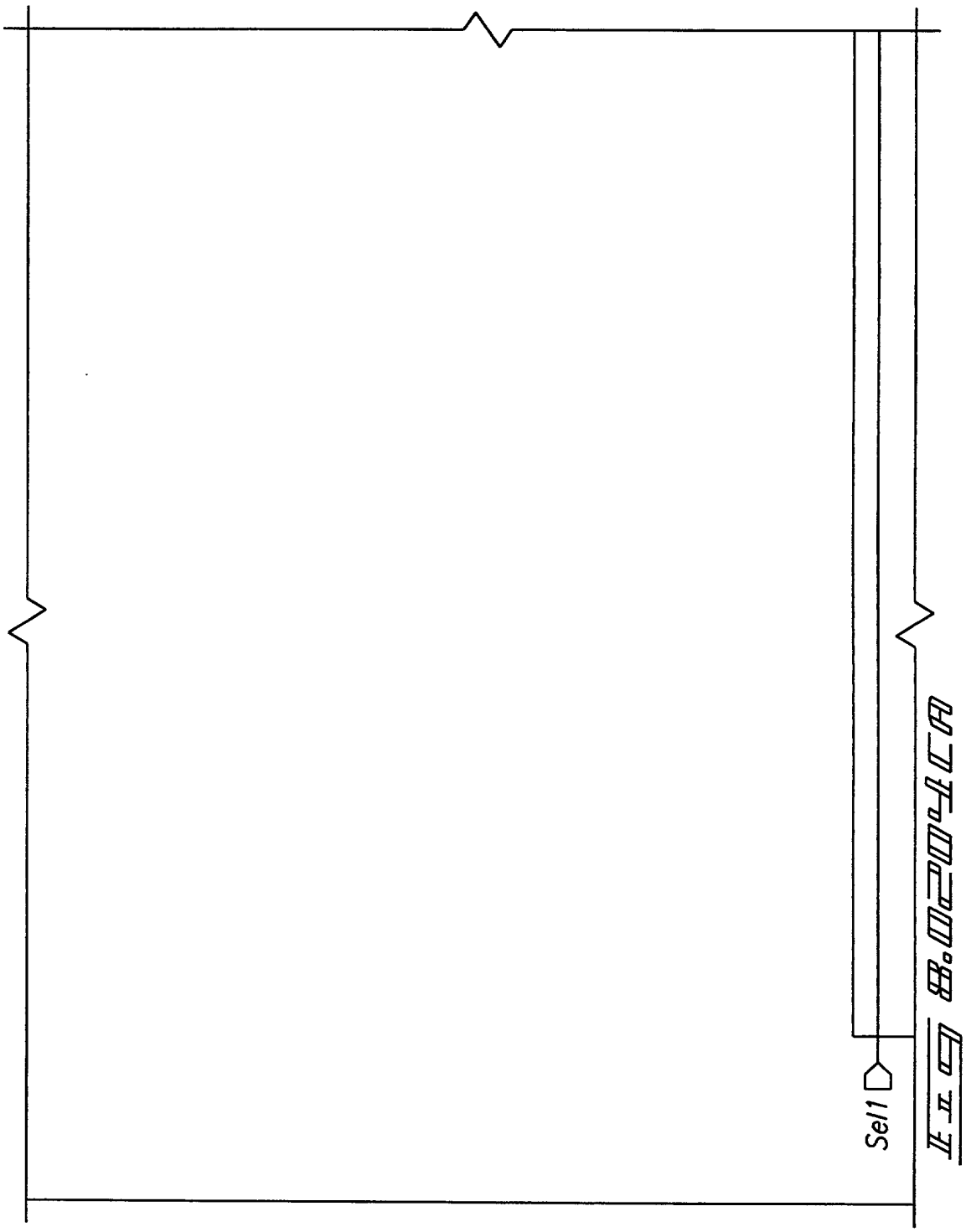


Fig 8.02041BH


10u/10u
M268
"nch"
ldr=10u
wdr=10u
vss!
net13641
net13641
vss!
I270
c=1.02688p
net36
P
SUB
NW
ldr=18u
wdr=96u
vss!
9u/1u
net13594

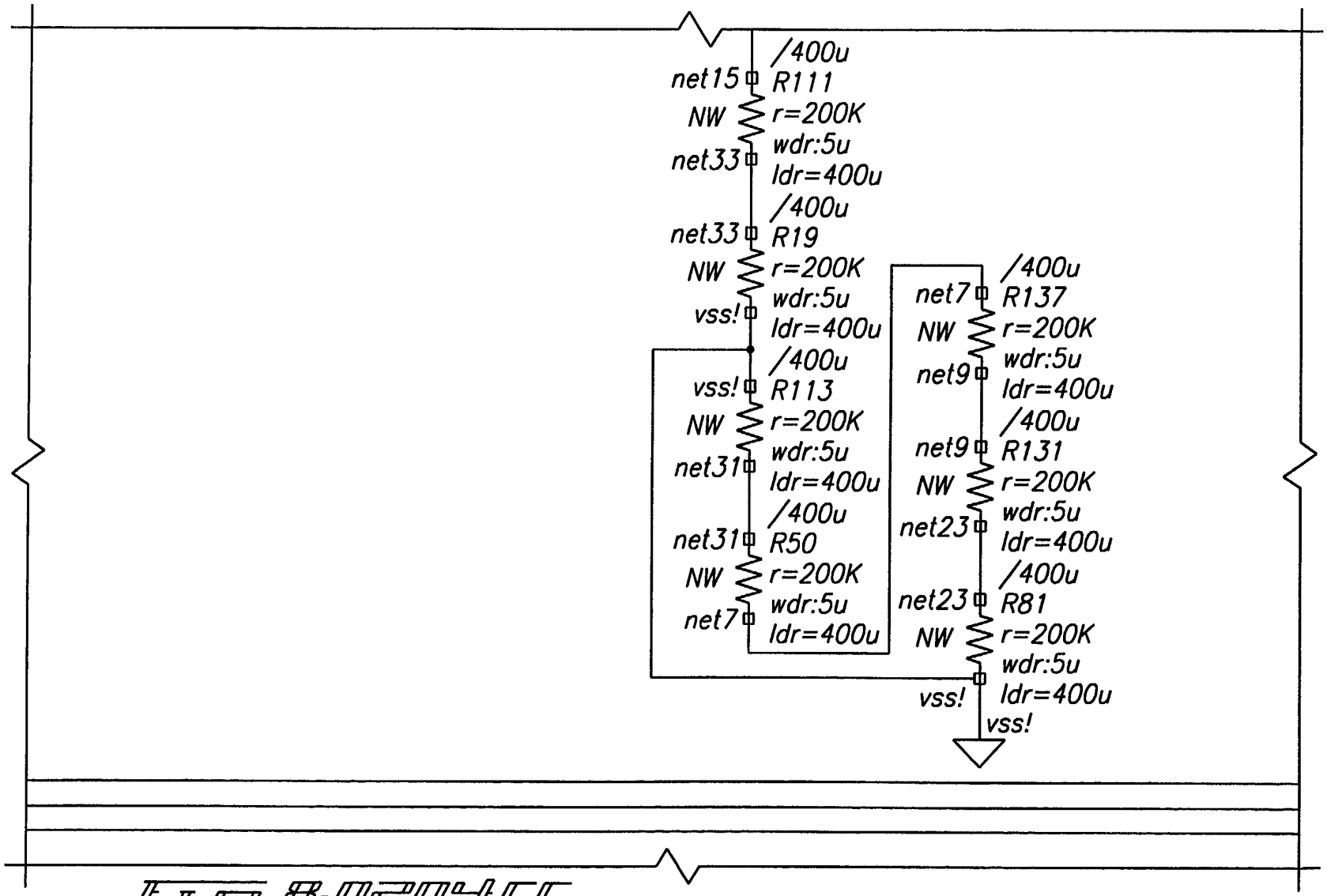
1357/3273



09.12.2009 - 09:42:01

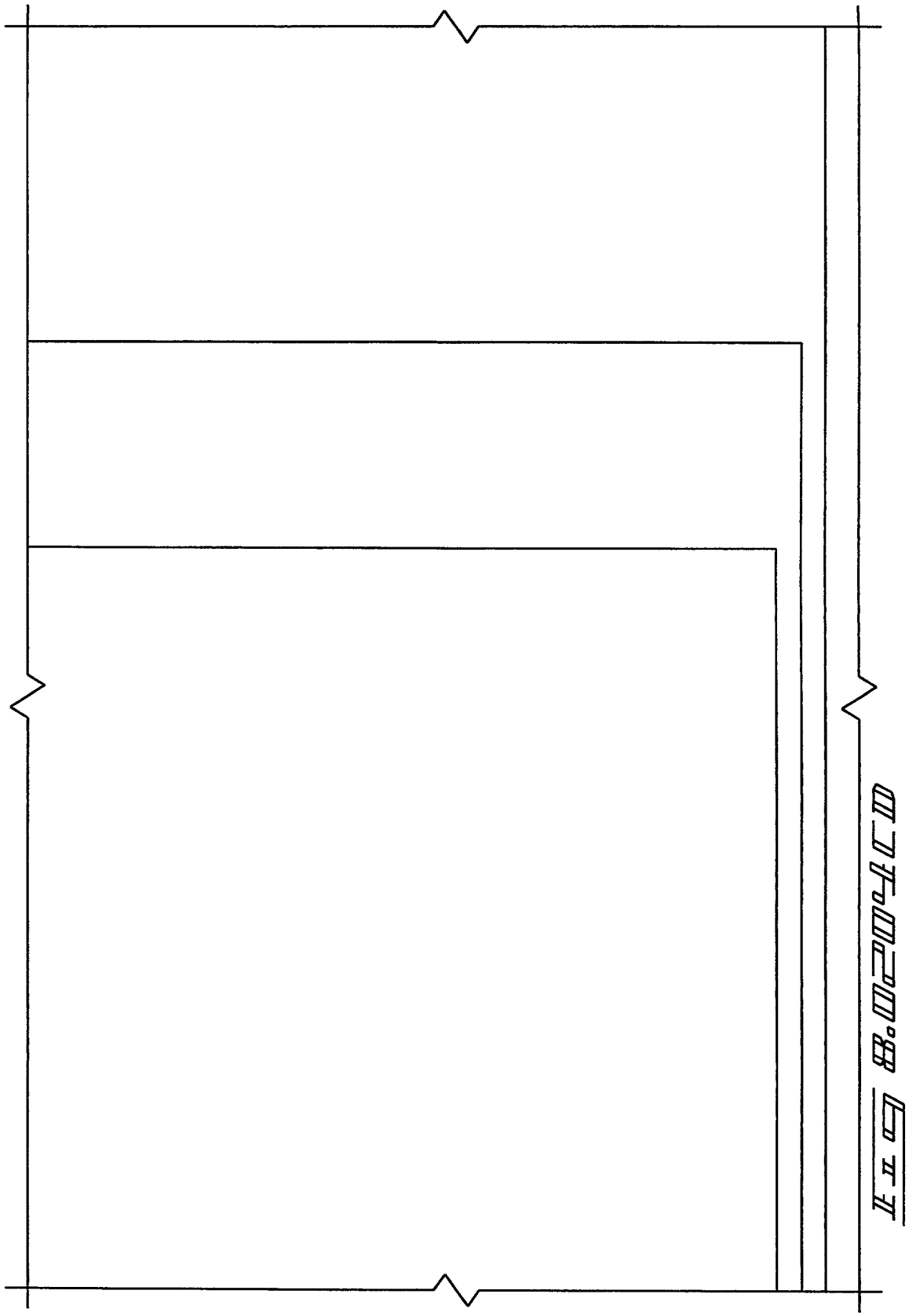
1358/3273

Электронный архив документов

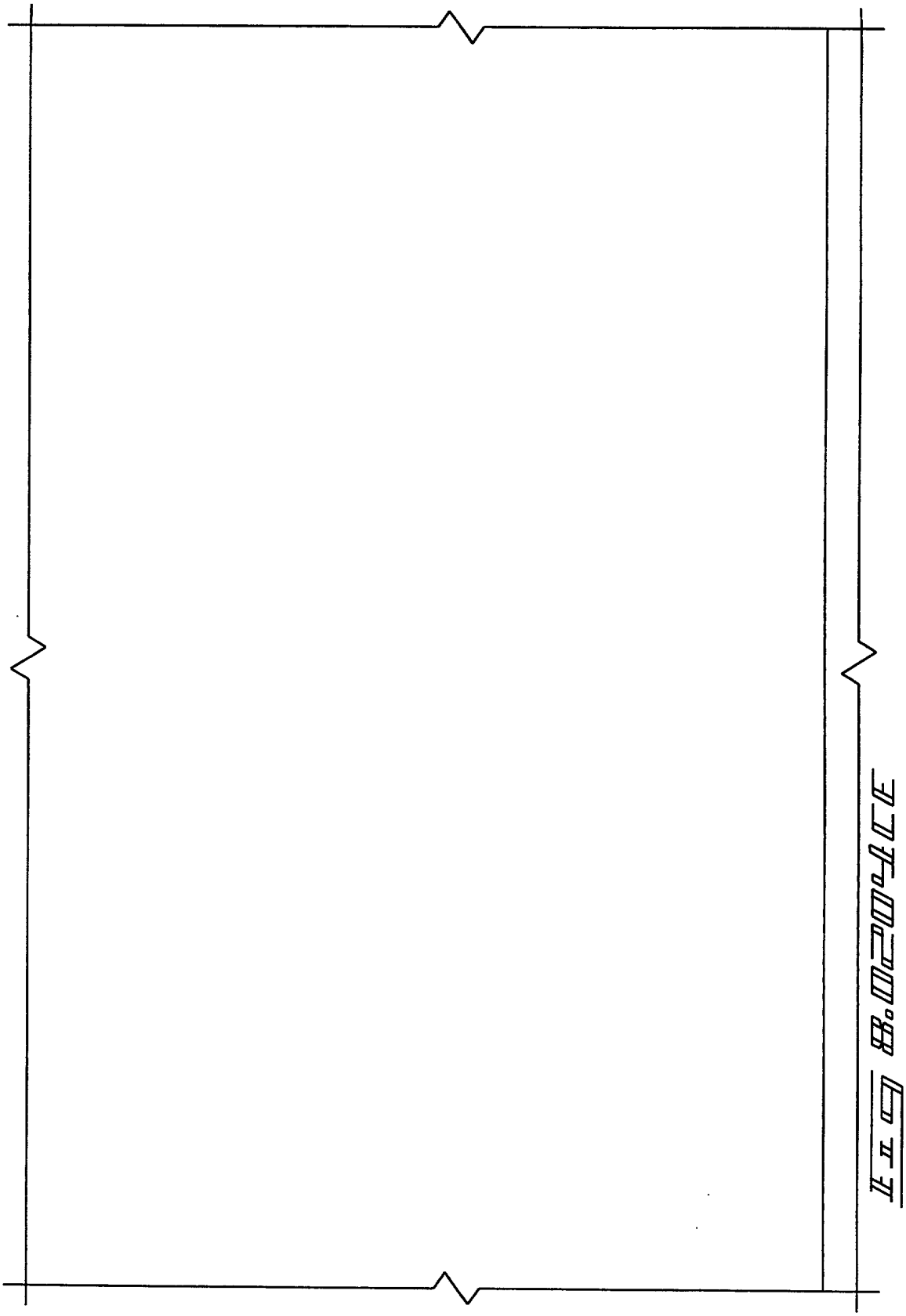


1359/3273

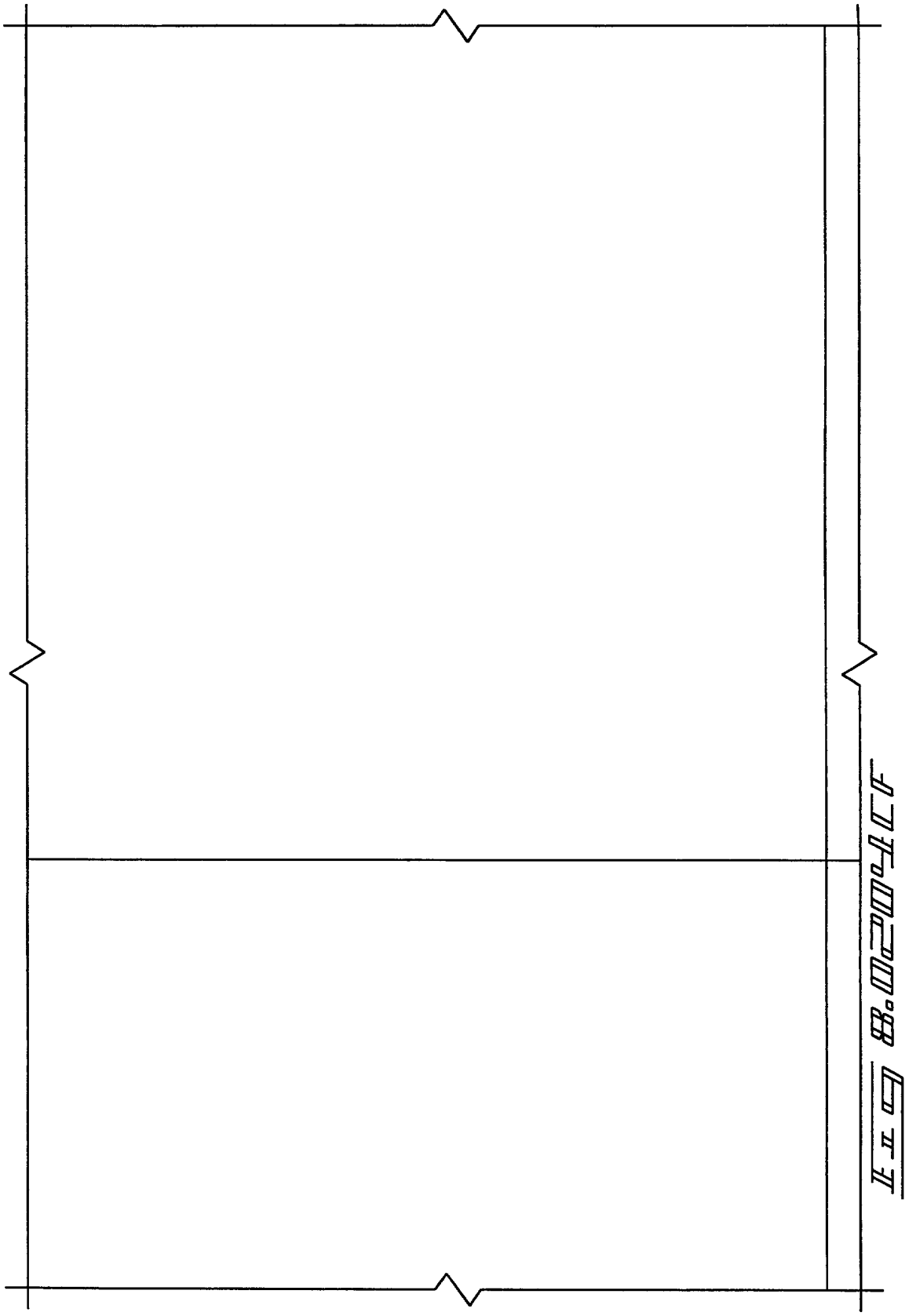
Fig 8.002046


1360/3273
CT4020.88 Ha
1360/3273

1361/3273



1362/3273



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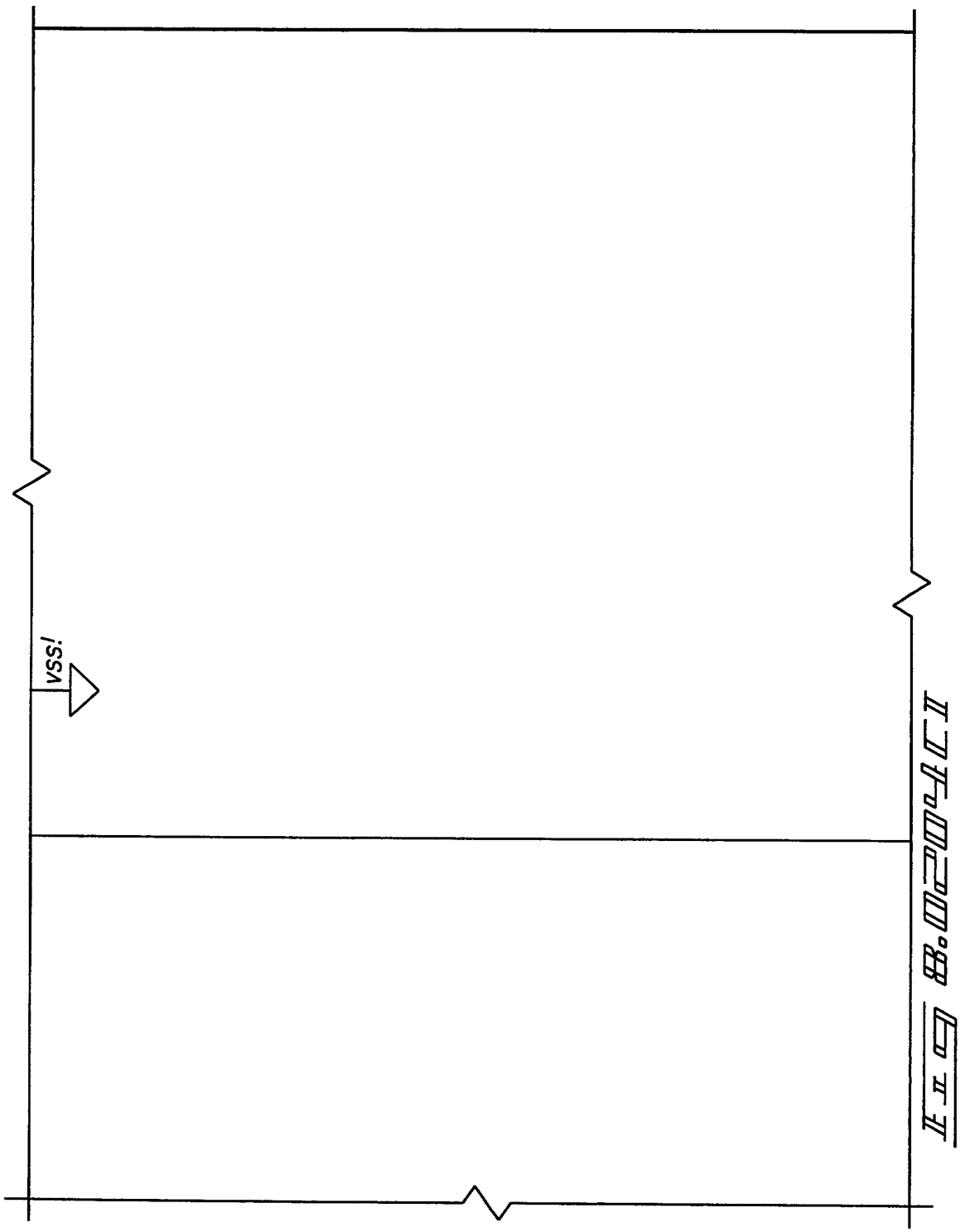
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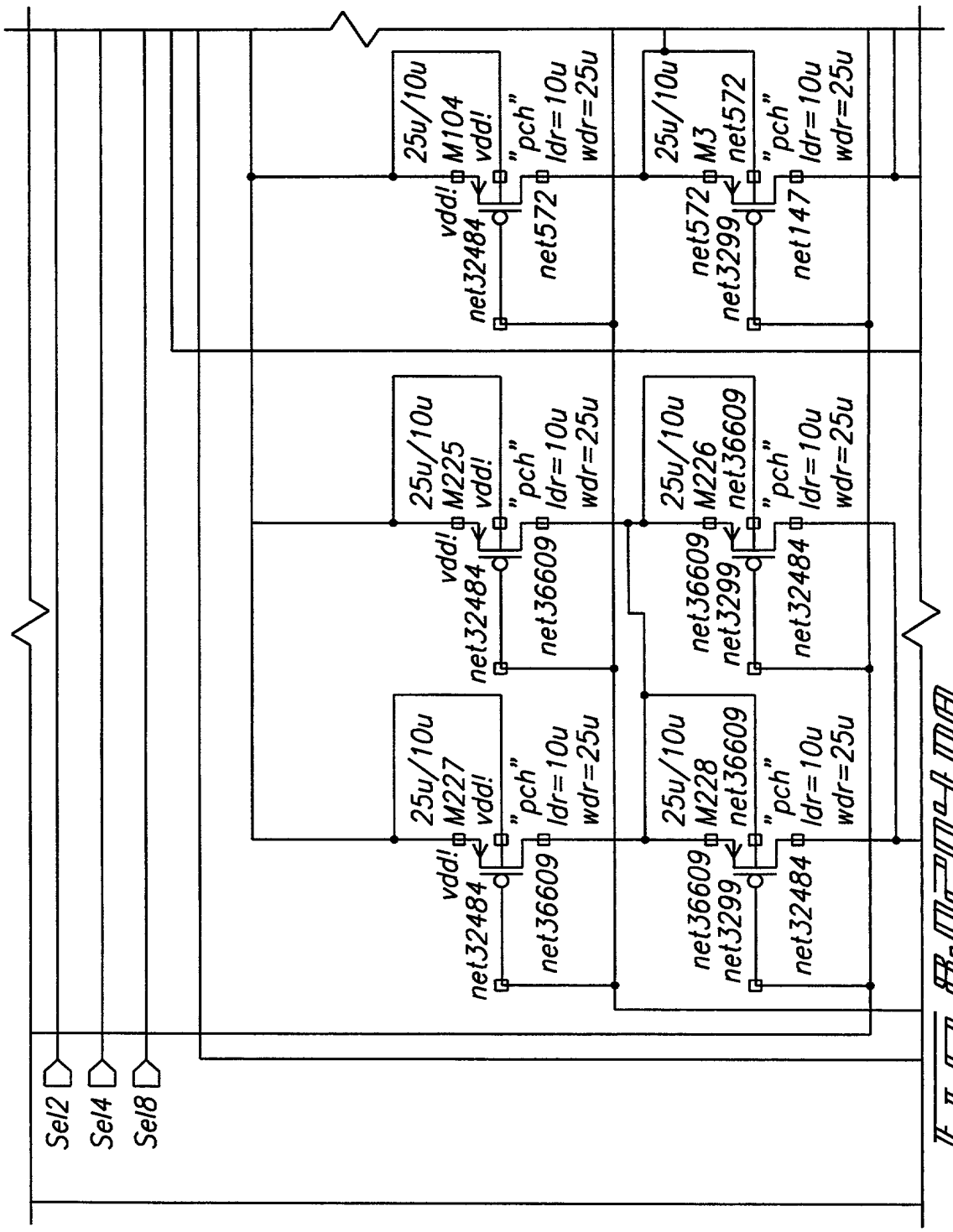
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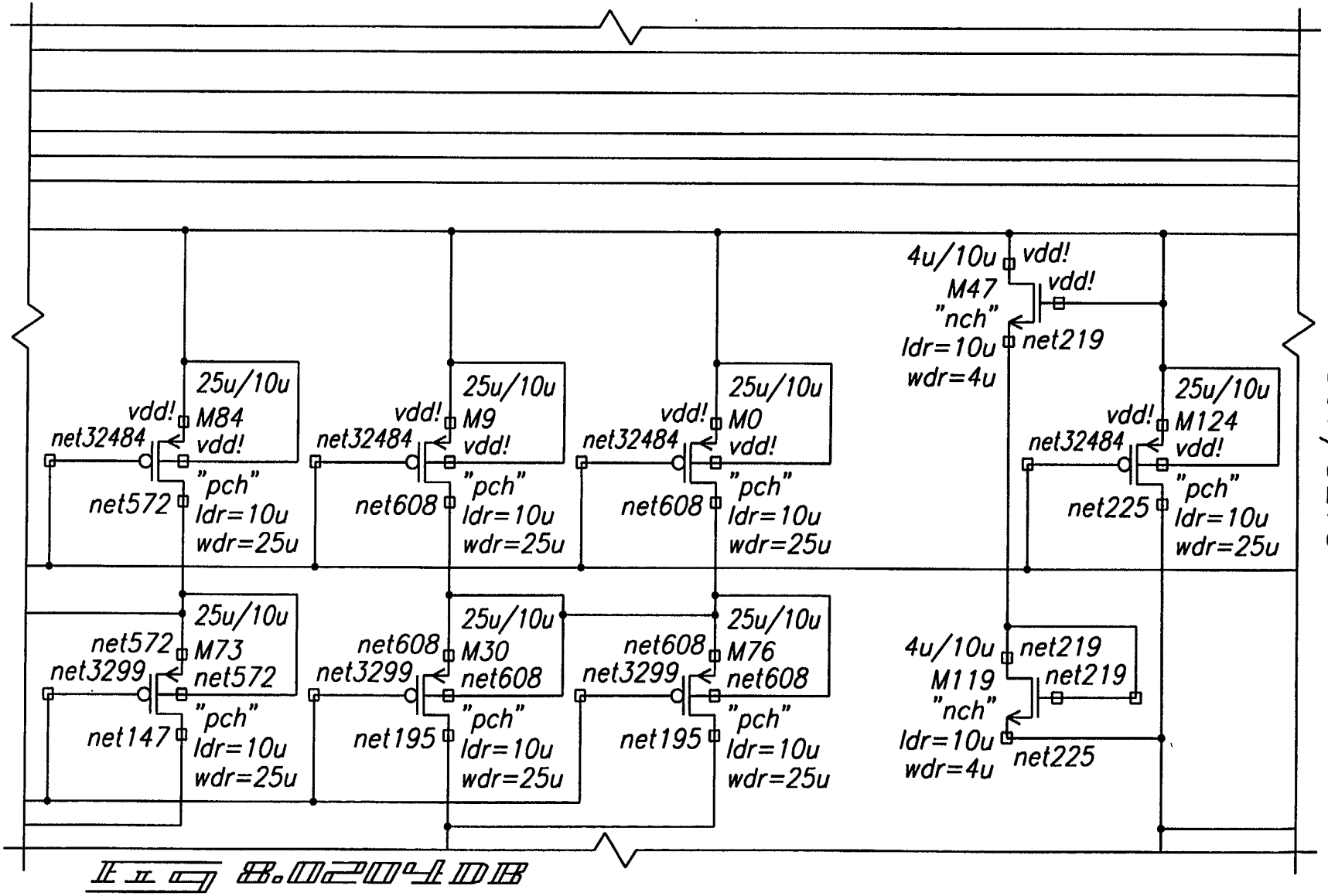
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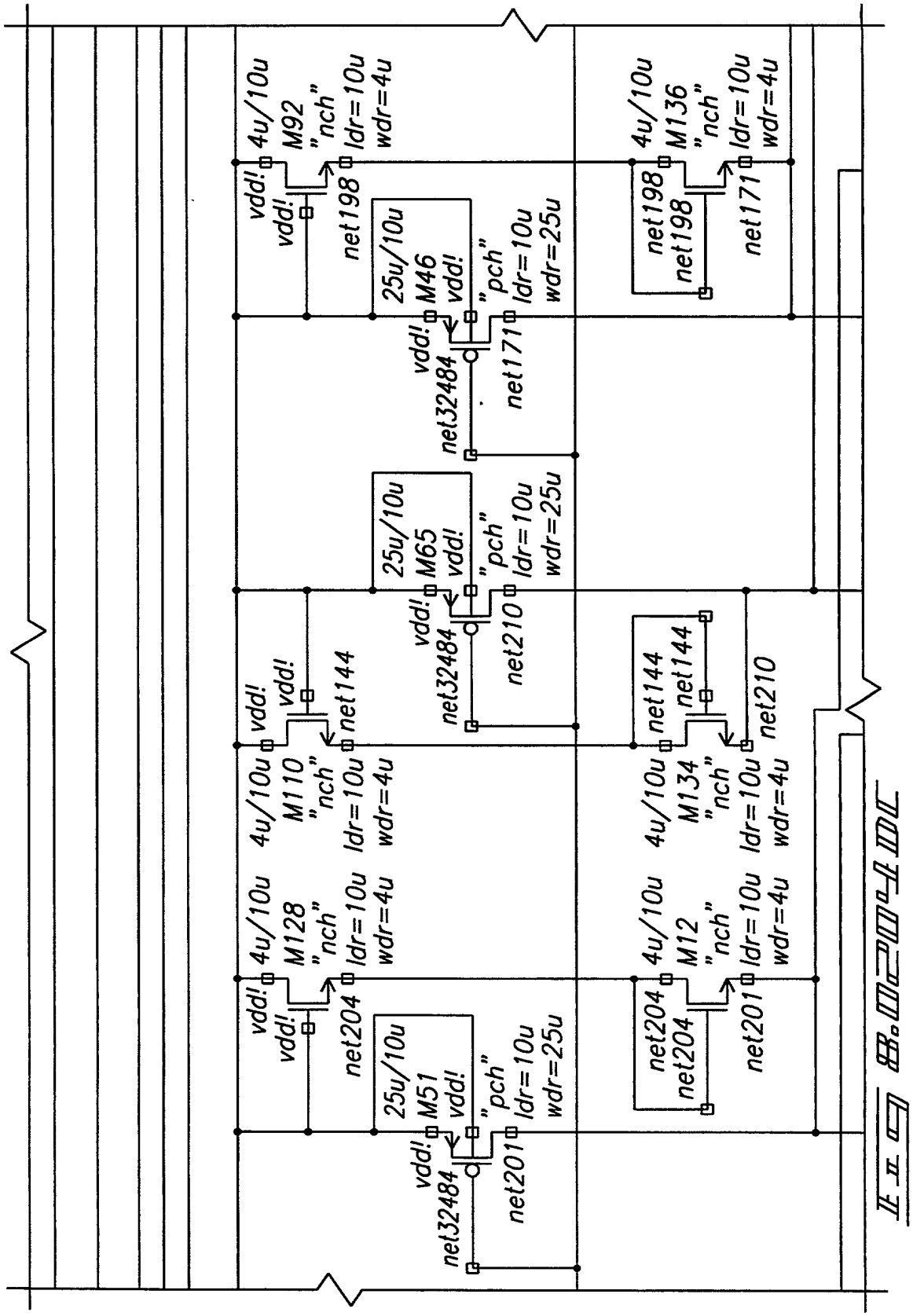
1365/3273



09/22/2005 05:41:01


Sel2
Sel4
Sel8
25u/10u
M104
vdd!
net32484
"pch"
ldr=10u
wdr=25u
net572
25u/10u
M3
net572
net3299
"pch"
ldr=10u
wdr=25u
net147
25u/10u
M225
vdd!
net32484
"pch"
ldr=10u
wdr=25u
net36609
25u/10u
M226
net36609
net3299
"pch"
ldr=10u
wdr=25u
net32484
25u/10u
M227
vdd!
net32484
"pch"
ldr=10u
wdr=25u
net36609
25u/10u
M228
net36609
net3299
"pch"
ldr=10u
wdr=25u
net32484


25u/10u
M84
vdd!
net32484
vdd!
"pch"
net572
ldr=10u
wdr=25u
25u/10u
M9
vdd!
net32484
vdd!
"pch"
net608
ldr=10u
wdr=25u
25u/10u
M0
vdd!
net32484
vdd!
"pch"
net608
ldr=10u
wdr=25u
4u/10u
M47
vdd!
"nch"
vdd!
net219
ldr=10u
wdr=4u
25u/10u
M124
vdd!
net32484
vdd!
"pch"
net225
ldr=10u
wdr=25u
25u/10u
M73
net572
net3299
net572
"pch"
net147
ldr=10u
wdr=25u
25u/10u
M30
net608
net3299
net608
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net195
ldr=10u
wdr=25u
25u/10u
M76
net608
net3299
net608
"pch"
net195
ldr=10u
wdr=25u
4u/10u
M119
net219
net219
"nch"
ldr=10u
wdr=4u
net225


4u/10u
M92
"nch"
ldr=10u
wdr=4u
vdd!
net198
25u/10u
M46
"pch"
ldr=10u
wdr=25u
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net171
net198
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M110
M128
net204
M51
net201
M134
M12
net201

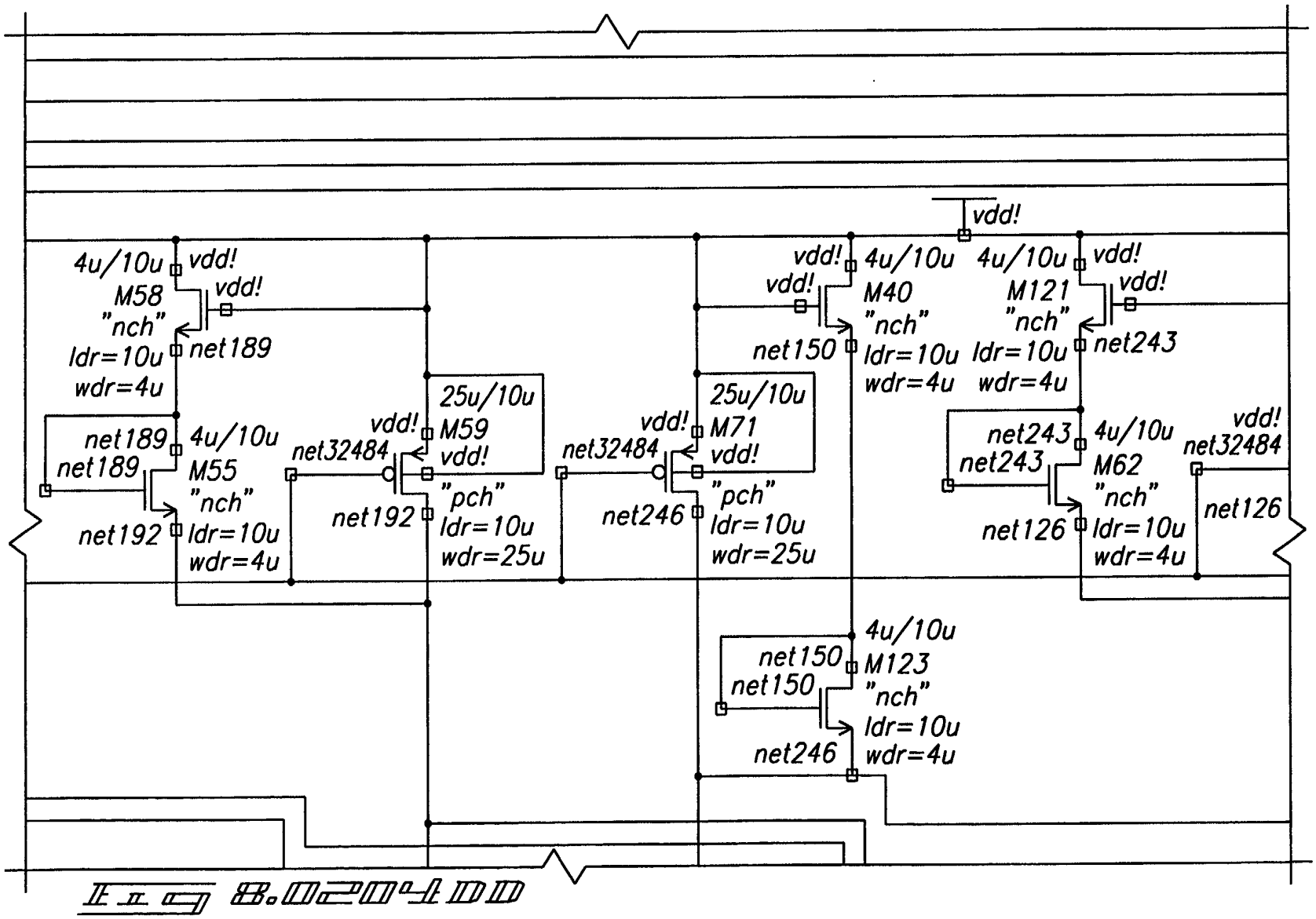


Fig 8.02004.000

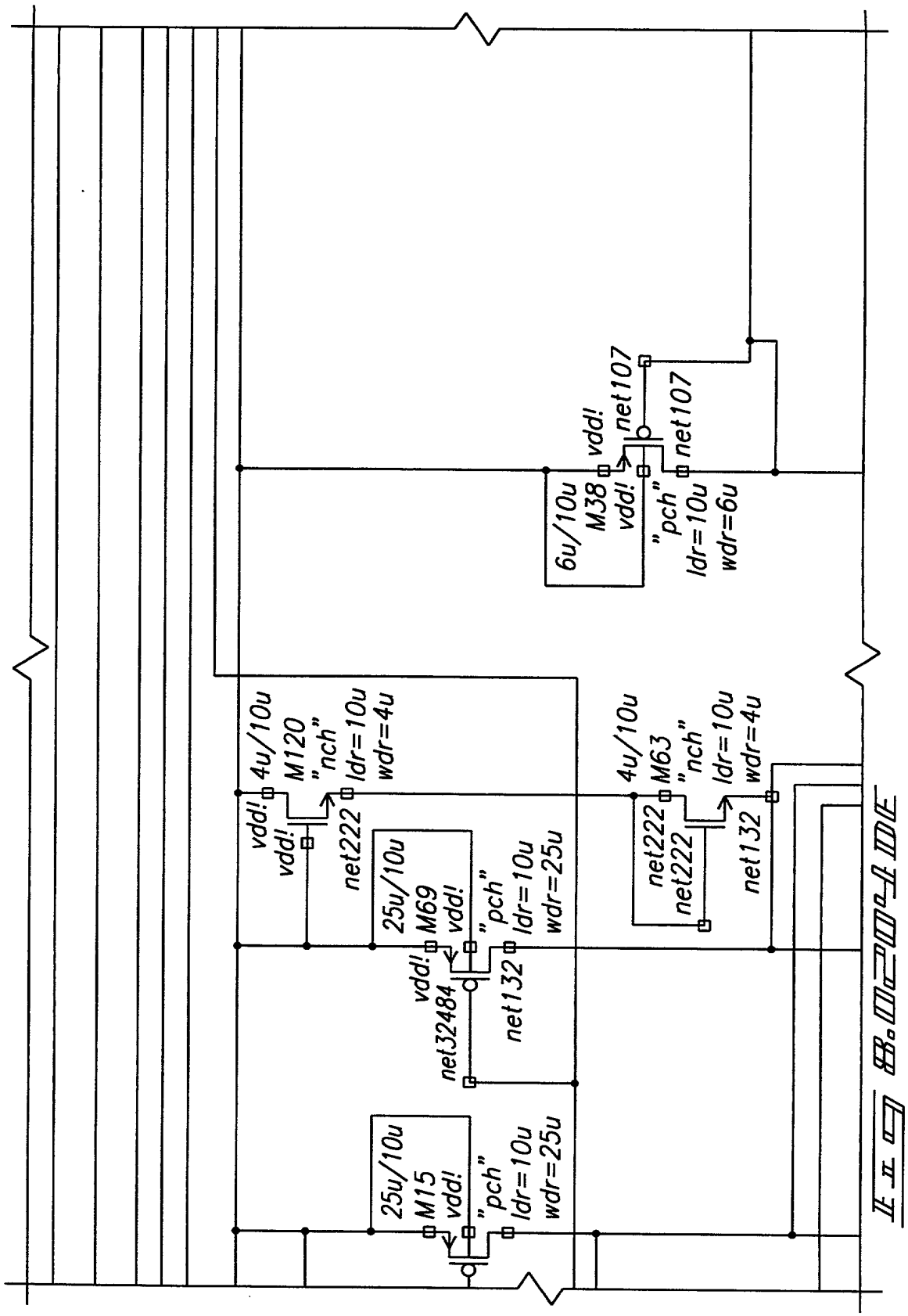


FIG 8. PRIOR ART

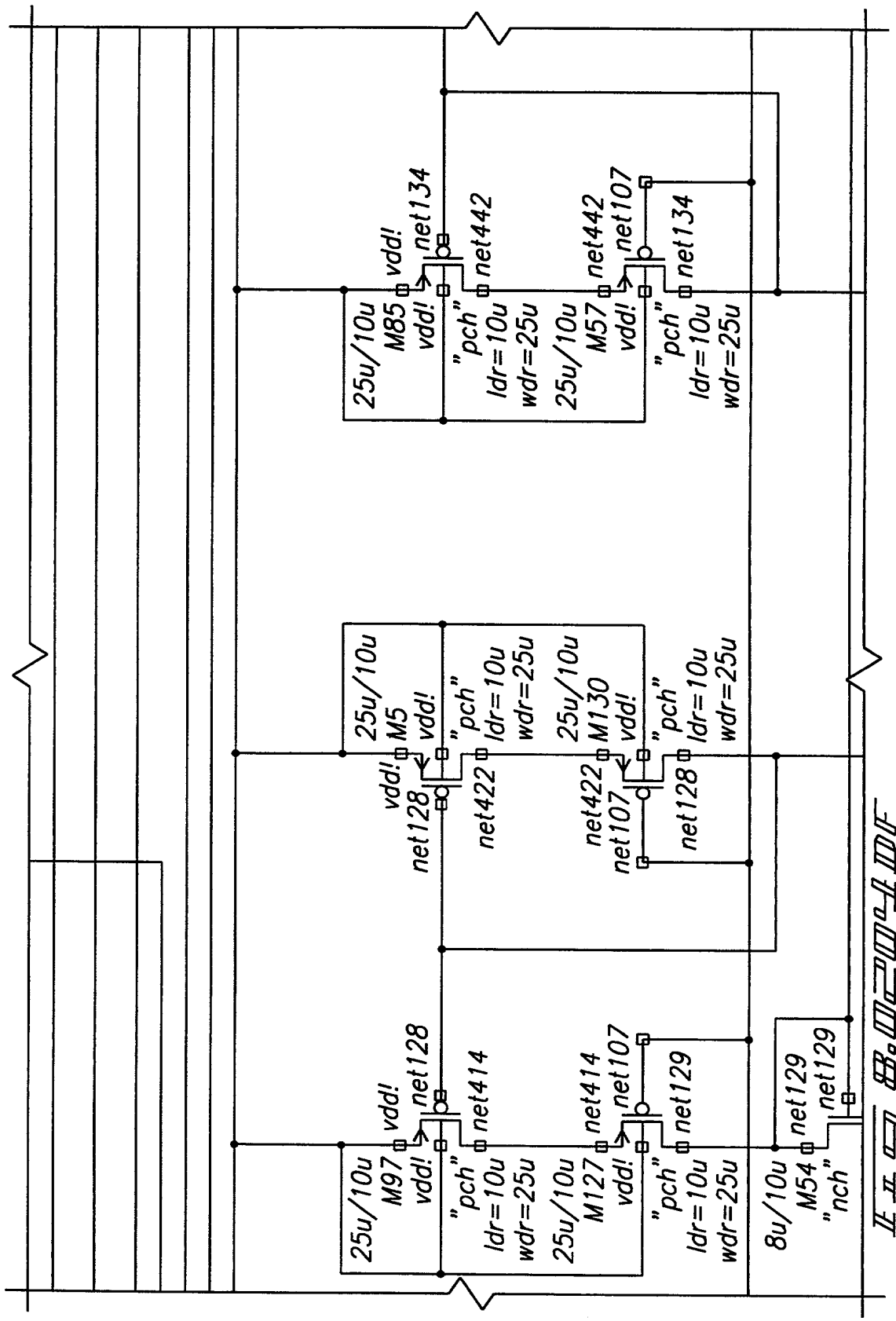
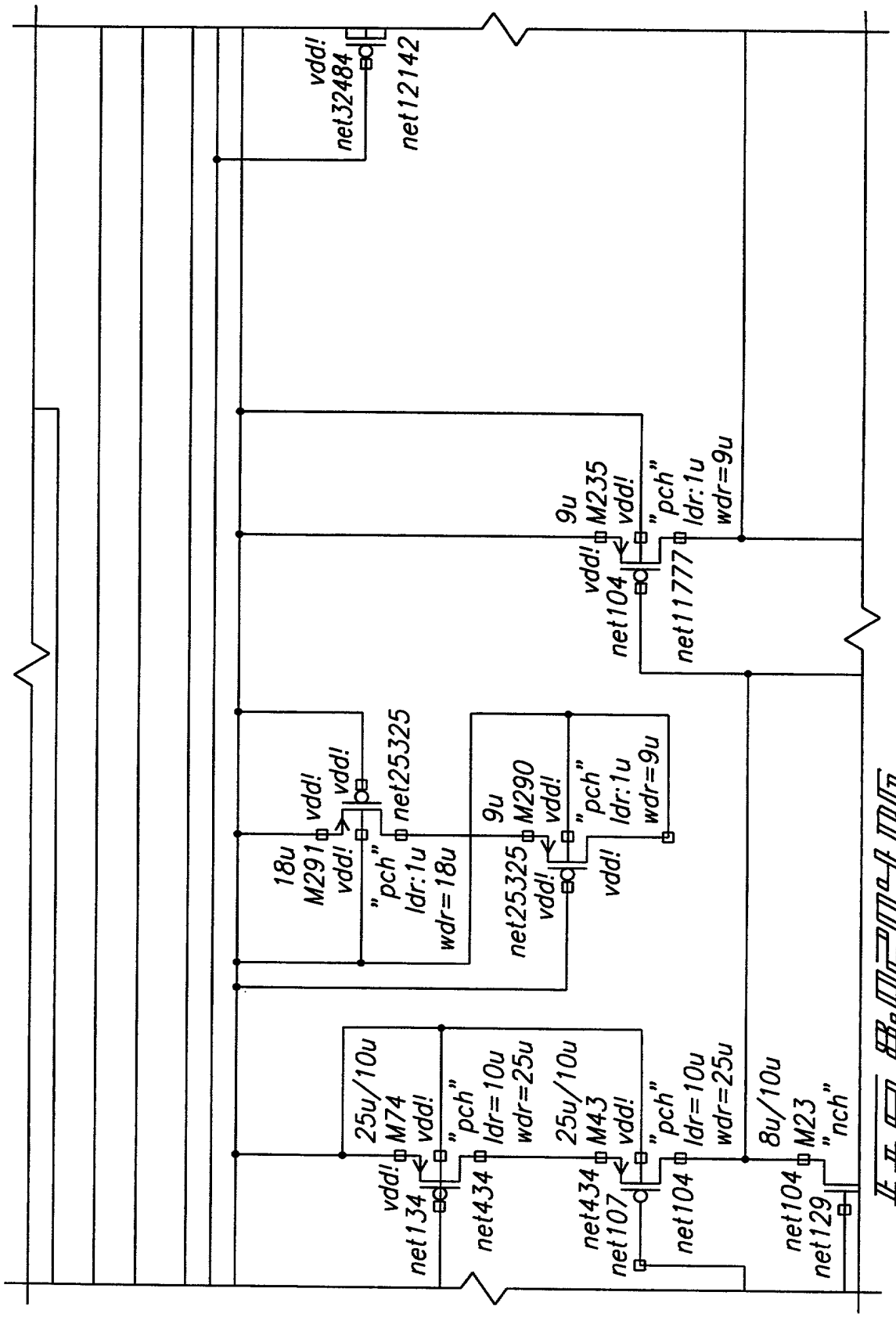
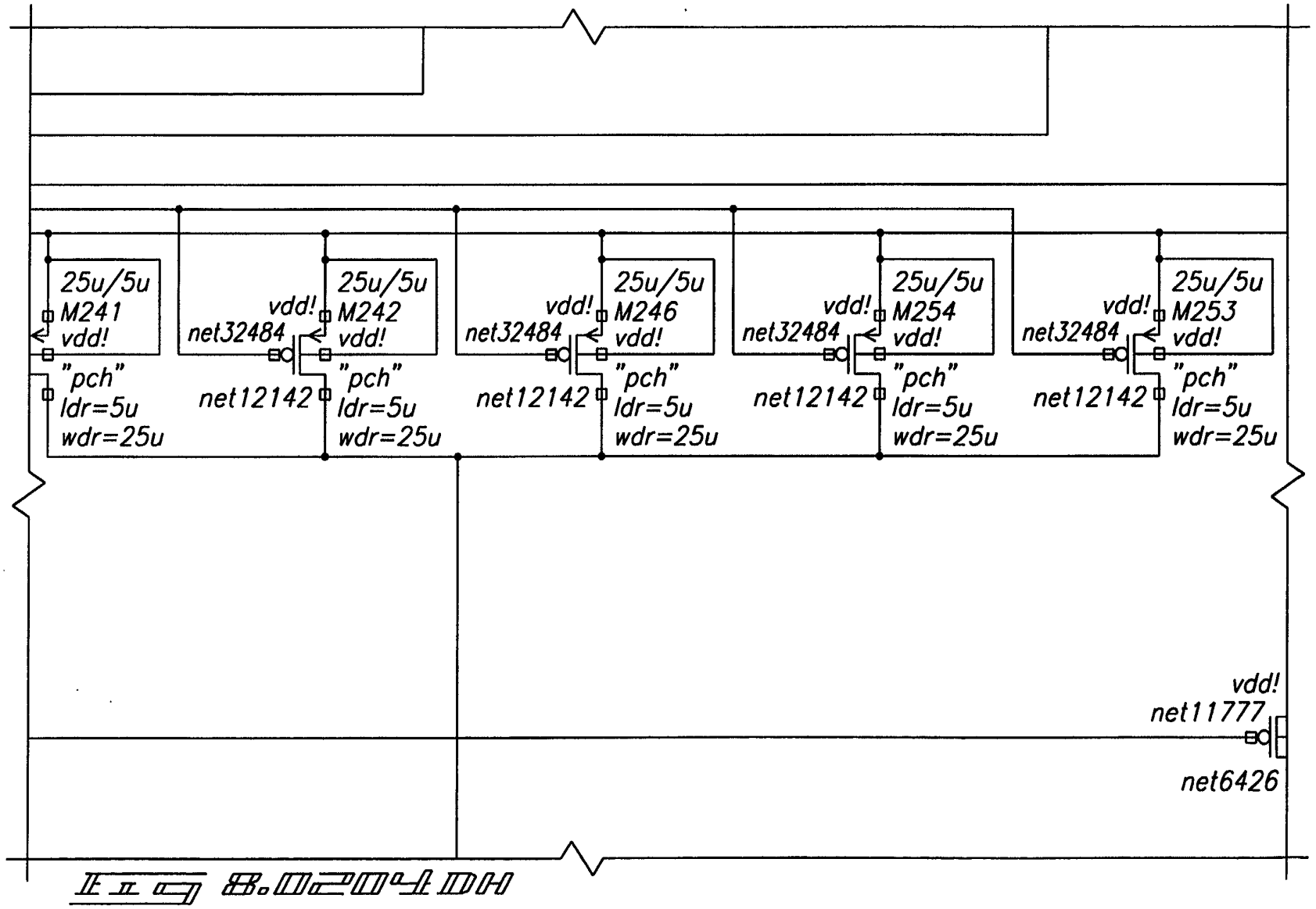
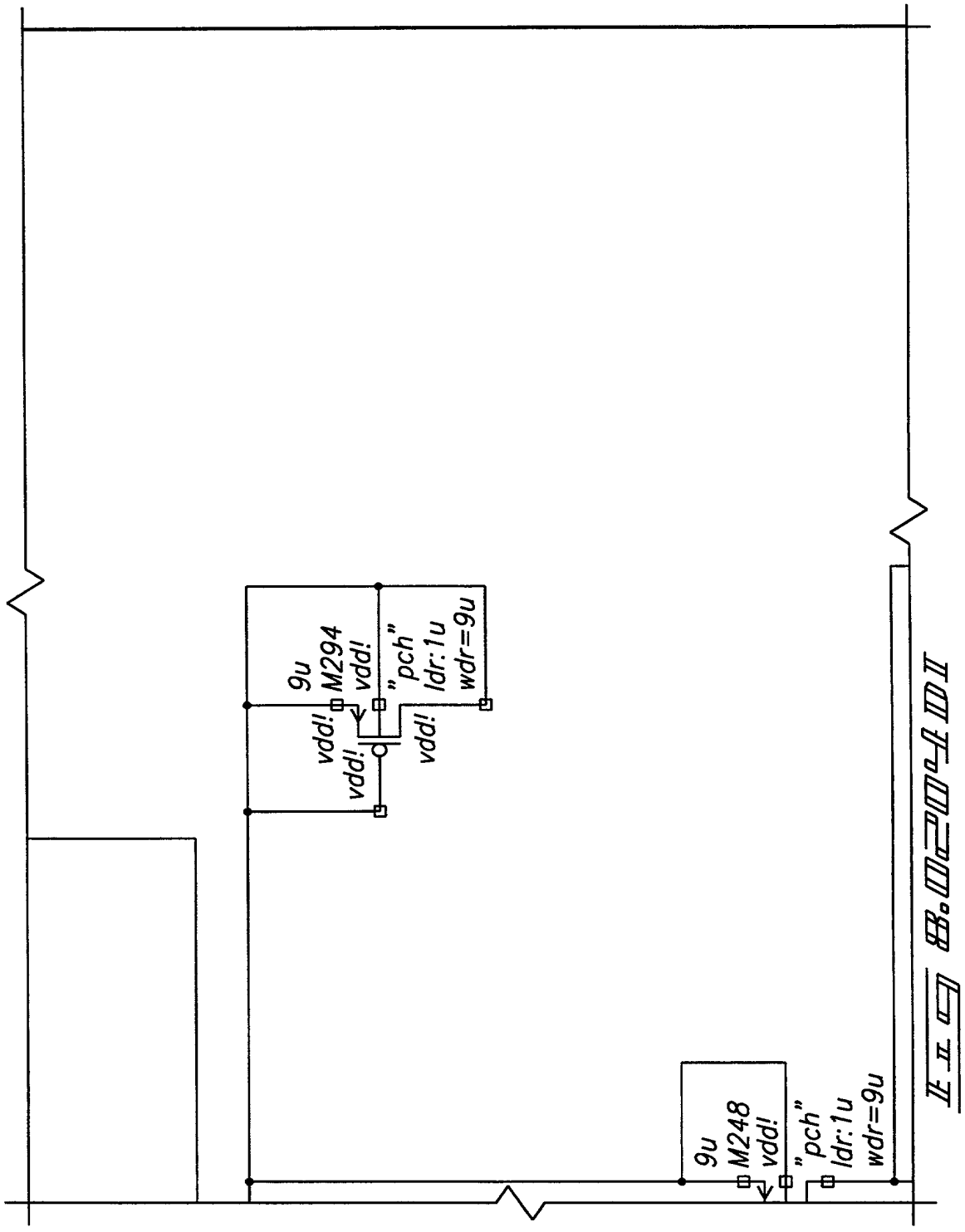
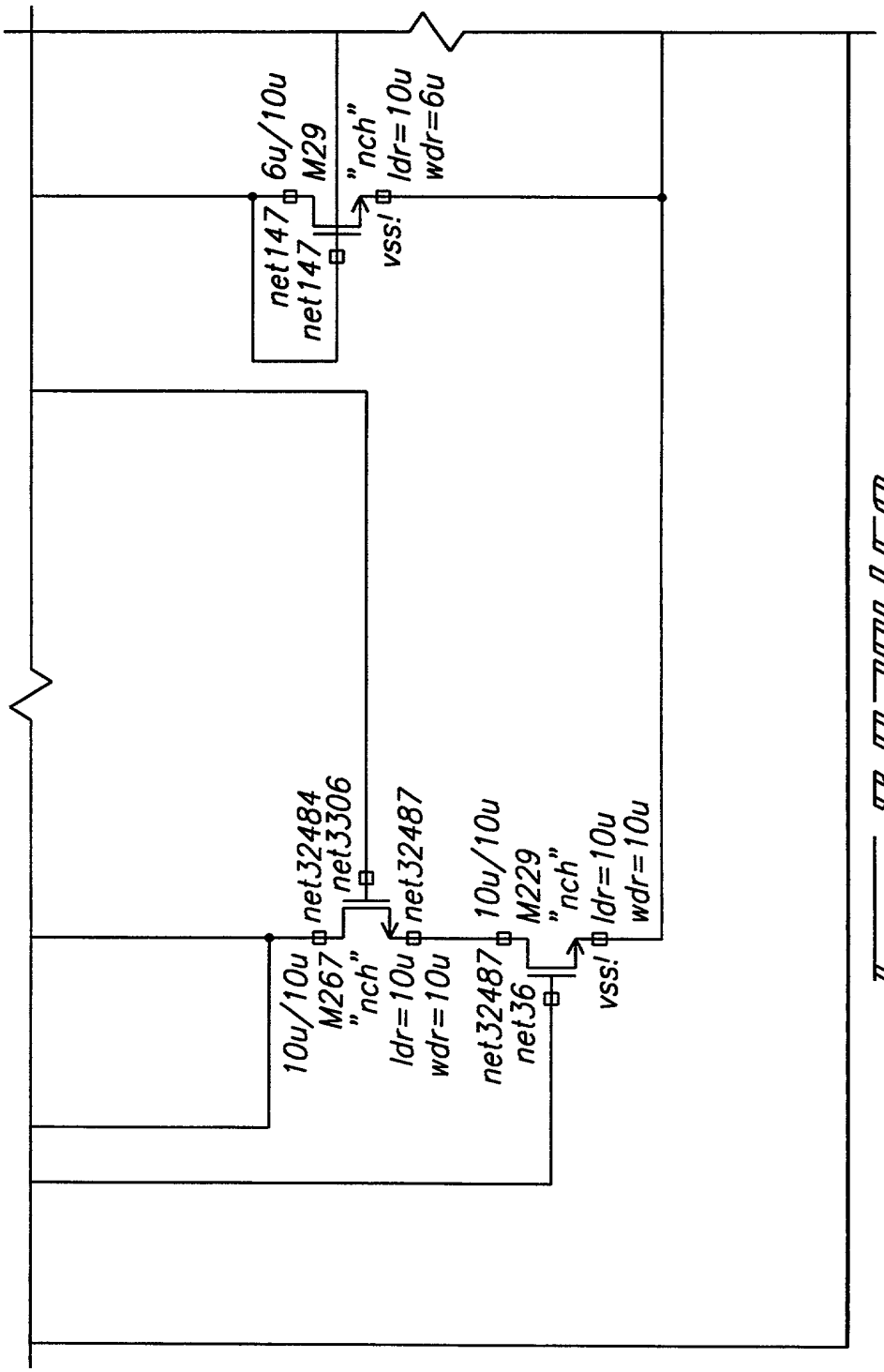


Fig 88.00-4.pdf


vdd!
net32484
net12142
9u
M235
vdd!
"pch"
ldr:1u
wdr=9u
vdd!
net104
net11777
18u
M291
vdd!
vdd!
"pch"
ldr:1u
wdr=18u
net25325
9u
M290
vdd!
"pch"
ldr:1u
wdr=9u
net25325
vdd!
vdd!
25u/10u
M74
vdd!
"pch"
ldr=10u
wdr=25u
vdd!
net134
net434
25u/10u
M43
vdd!
"pch"
ldr=10u
wdr=25u
net434
net107
net104
8u/10u
M23
"nch"
net104
net129


25u/5u
M241
vdd!
"pch"
ldr=5u
wdr=25u
net32484
vdd!
25u/5u
M242
vdd!
net12142
"pch"
ldr=5u
wdr=25u
net32484
vdd!
25u/5u
M246
vdd!
net12142
"pch"
ldr=5u
wdr=25u
net32484
vdd!
25u/5u
M254
vdd!
net12142
"pch"
ldr=5u
wdr=25u
net32484
vdd!
25u/5u
M253
vdd!
net12142
"pch"
ldr=5u
wdr=25u
vdd!
net11777
net6426


9u
M294
vdd!
"pch"
ldr:1u
wdr=9u
vdd!
vdd!
vdd!
9u
M248
vdd!
"pch"
ldr:1u
wdr=9u


net147
net147
6u/10u
M29
"nch"
ldr=10u
wdr=6u
vss!
net32484
net3306
net32487
10u/10u
M267
"nch"
ldr=10u
wdr=10u
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net36
10u/10u
M229
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ldr=10u
wdr=10u
vss!

Фиг. 8.00200A

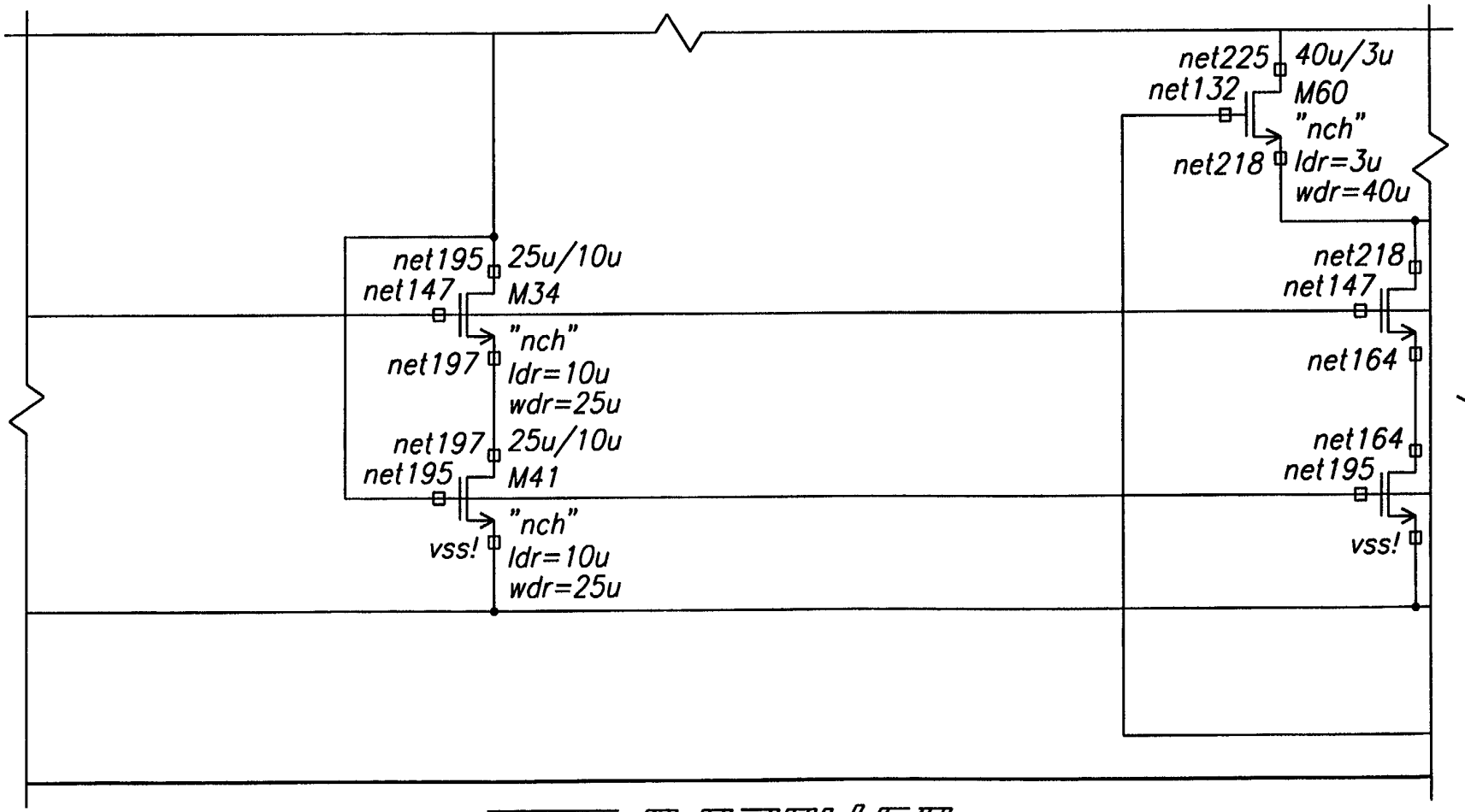


Fig 8.02048E8

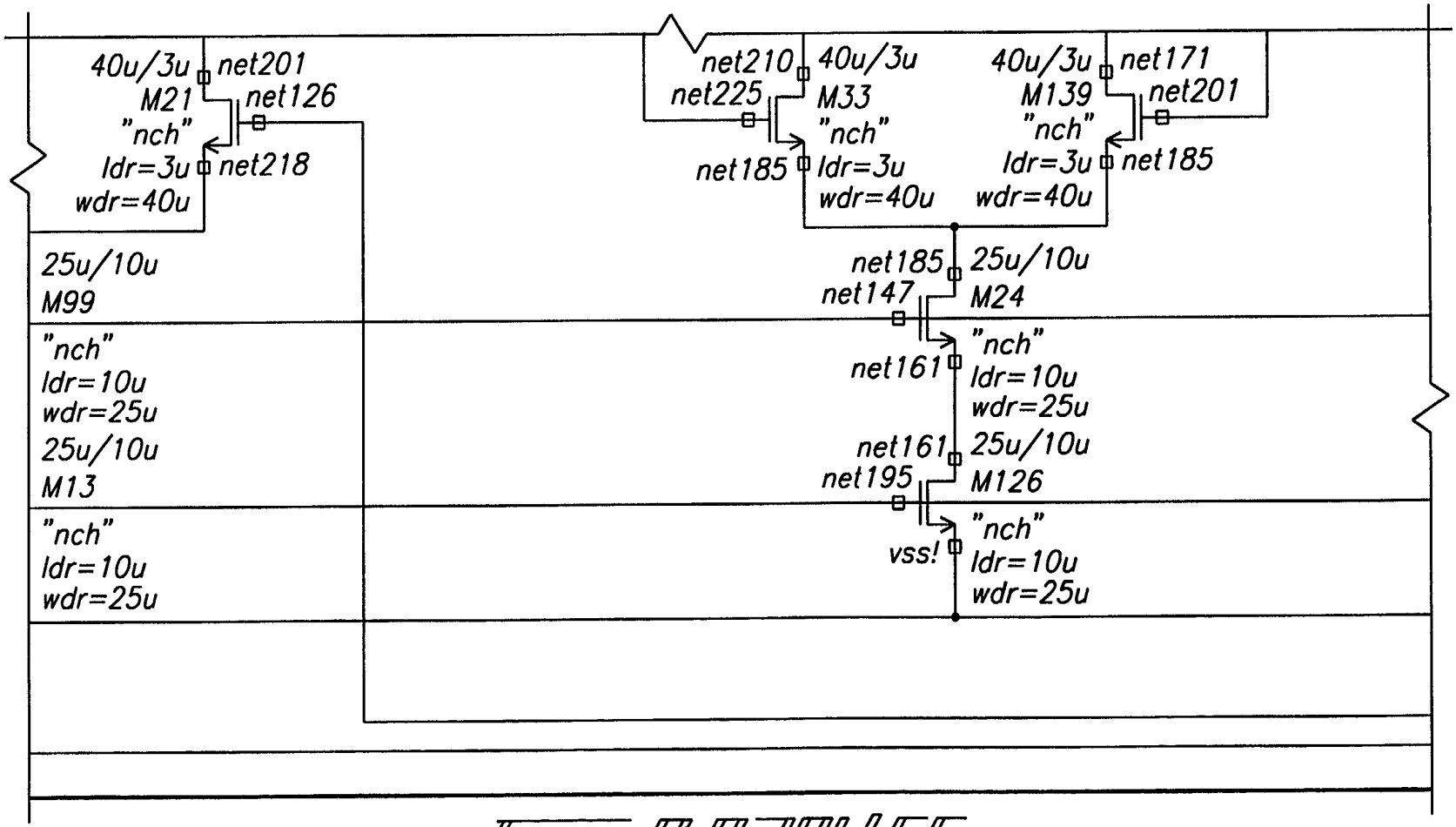
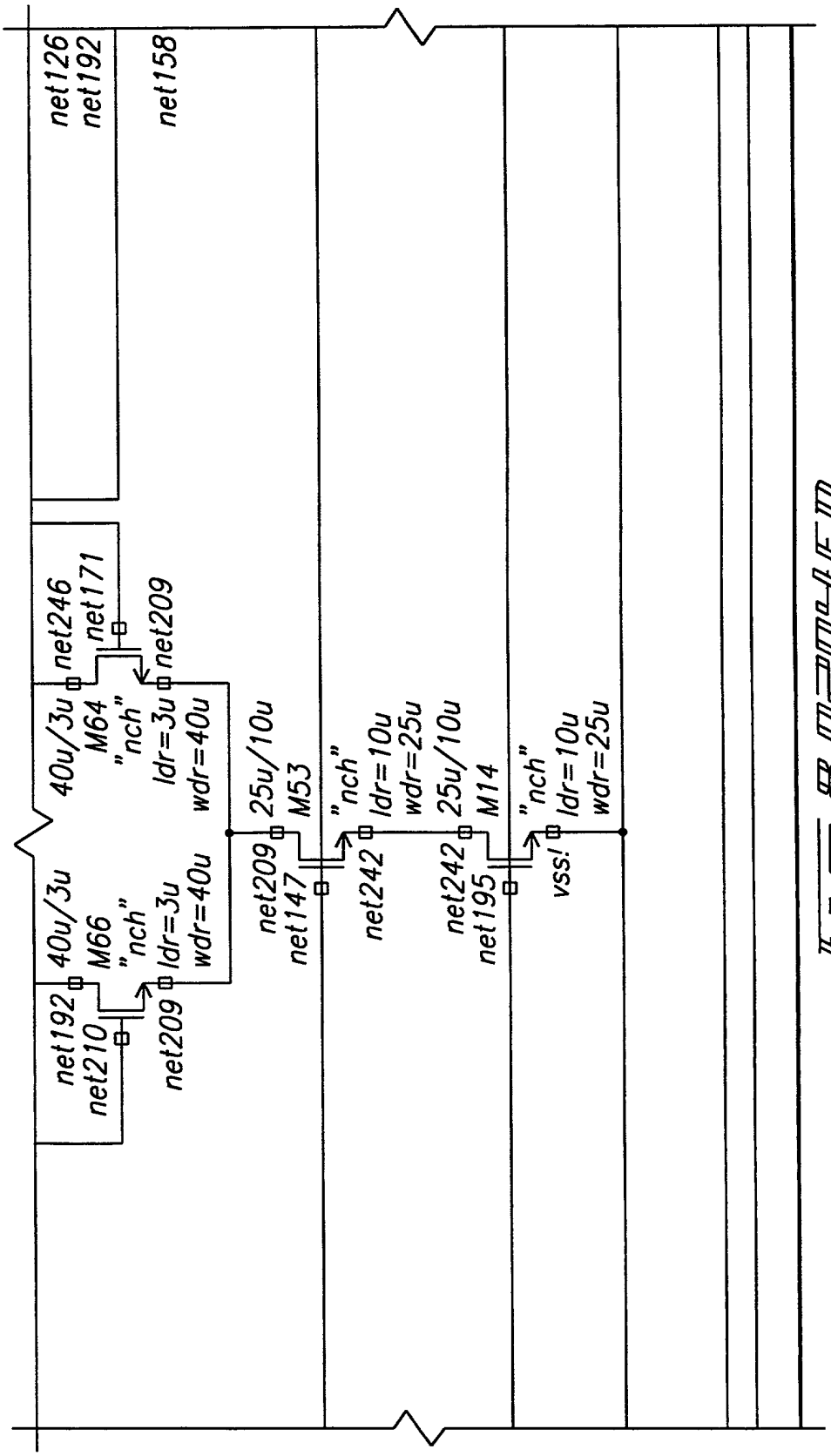

40u/3u
M21
"nch"
ldr=3u
wdr=40u
net201
net126
net218
net210
net225
net185
40u/3u
M33
"nch"
ldr=3u
wdr=40u
40u/3u
M139
"nch"
ldr=3u
wdr=40u
net171
net201
net185
25u/10u
M99
"nch"
ldr=10u
wdr=25u
25u/10u
M13
"nch"
ldr=10u
wdr=25u
net185
net147
25u/10u
M24
net161
"nch"
ldr=10u
wdr=25u
net161
net195
25u/10u
M126
vss!
"nch"
ldr=10u
wdr=25u
1377/3273

Fig 8.0204EC



ФИГ. 88.00204ED

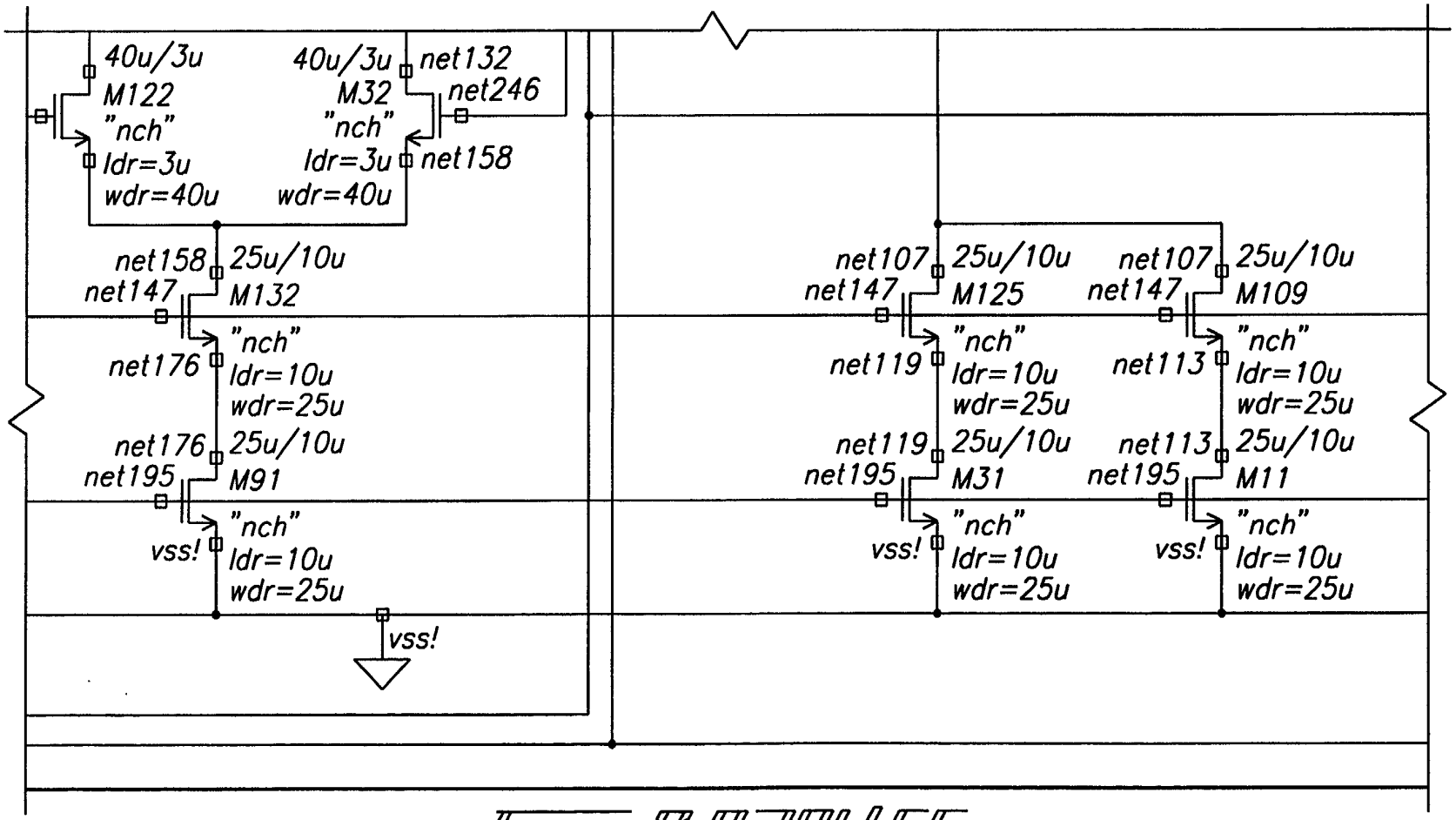

40u/3u
M122
"nch"
ldr=3u
wdr=40u
40u/3u
M32
"nch"
ldr=3u
wdr=40u
net132
net246
net158
net158
25u/10u
M132
net147
"nch"
ldr=10u
wdr=25u
net176
net176
25u/10u
M91
net195
"nch"
ldr=10u
wdr=25u
vss!
vss!
net107
25u/10u
M125
net147
"nch"
ldr=10u
wdr=25u
net119
net119
25u/10u
M31
net195
"nch"
ldr=10u
wdr=25u
vss!
net107
25u/10u
M109
net147
"nch"
ldr=10u
wdr=25u
net113
net113
25u/10u
M11
net195
"nch"
ldr=10u
wdr=25u
vss!

Fig 8.02045E

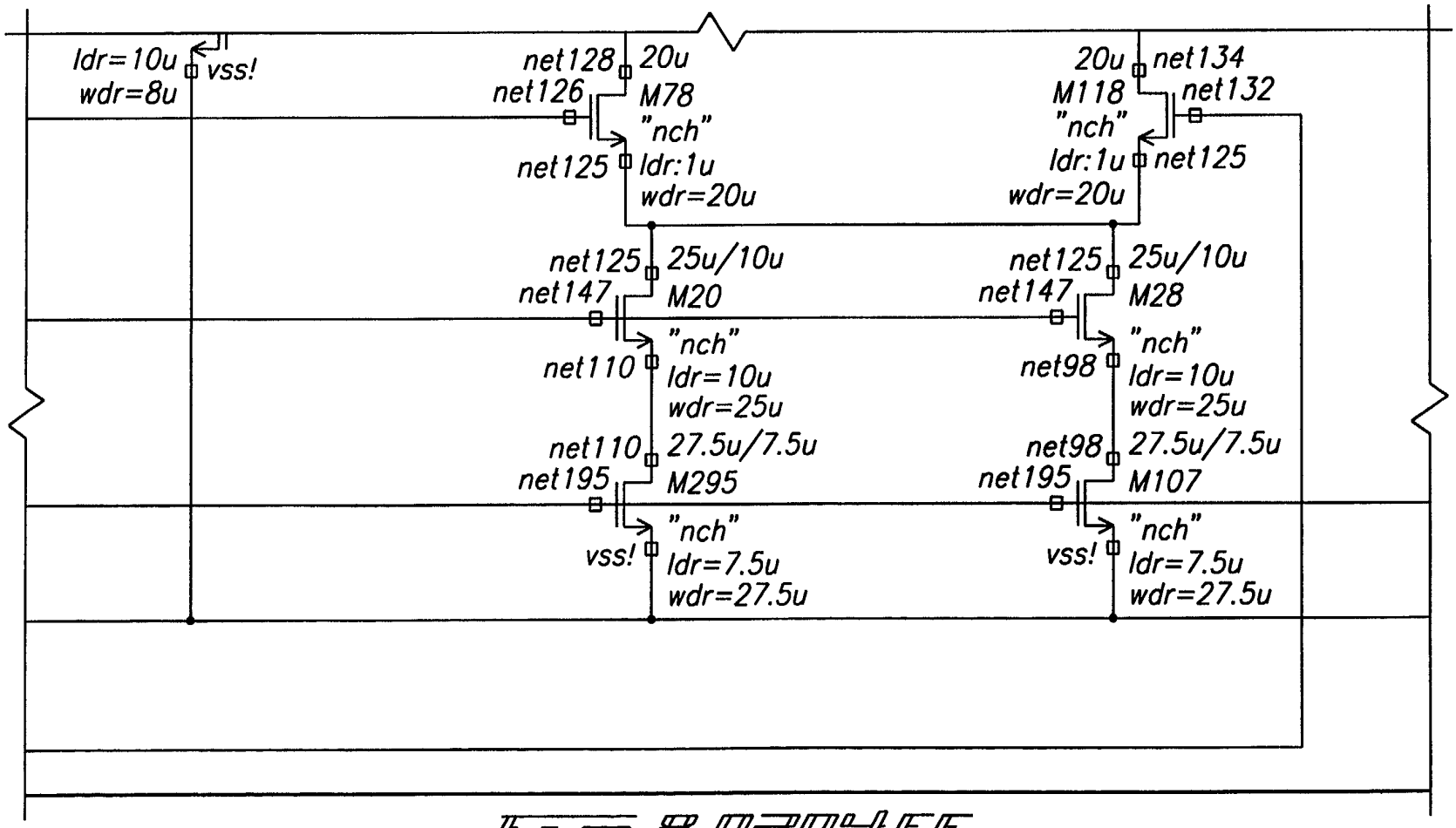

ldr=10u
wdr=8u
vss!
net128
net126
20u
M78
"nch"
ldr:1u
wdr=20u
net125
20u
M118
"nch"
ldr:1u
wdr=20u
net134
net132
net125
net125
25u/10u
M20
net147
"nch"
ldr=10u
wdr=25u
net110
25u/10u
M28
net147
"nch"
ldr=10u
wdr=25u
net98
net110
27.5u/7.5u
M295
net195
"nch"
ldr=7.5u
wdr=27.5u
vss!
net98
27.5u/7.5u
M107
net195
"nch"
ldr=7.5u
wdr=27.5u
vss!
1380/3273

Fig 8.0204EF

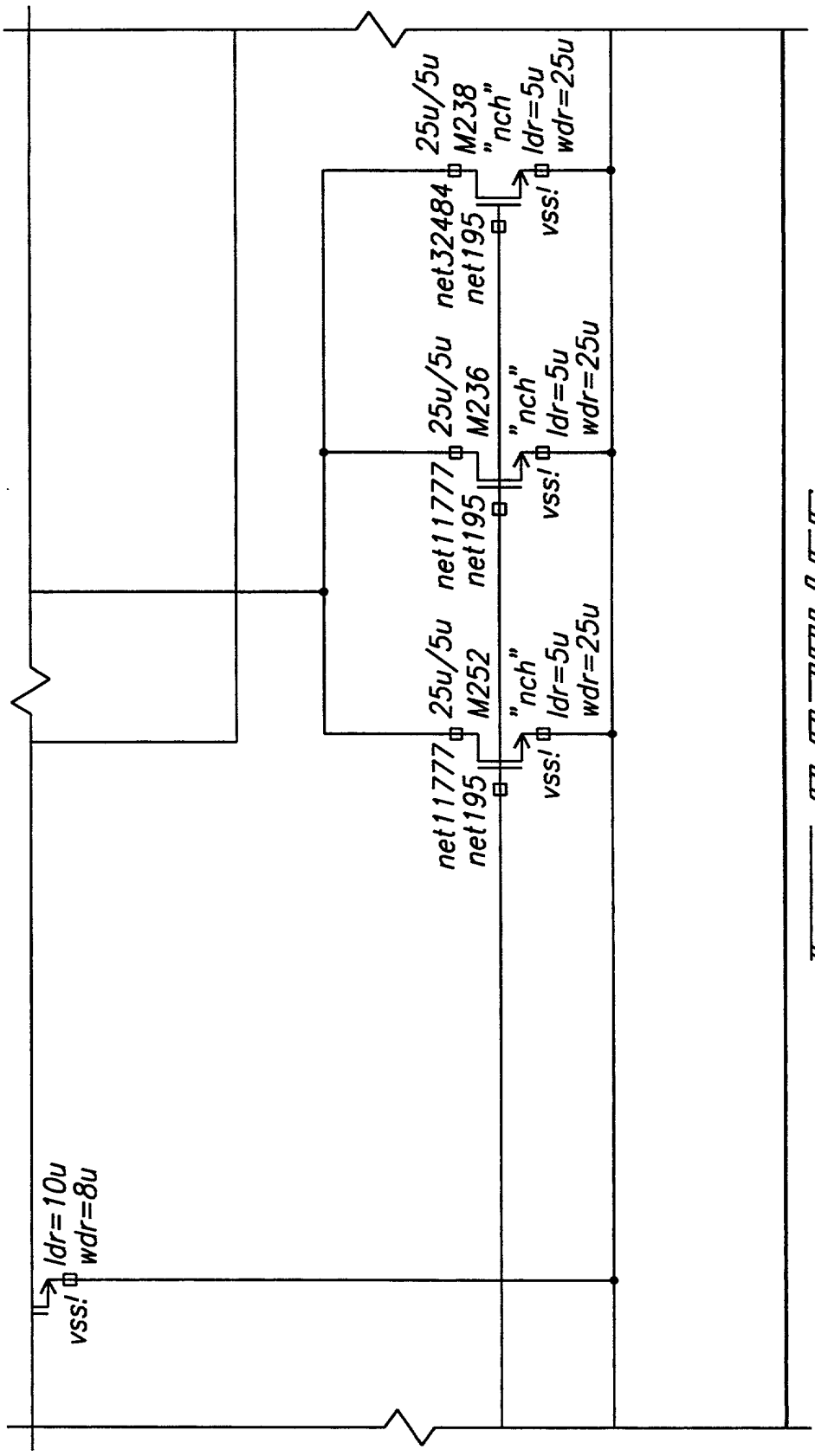
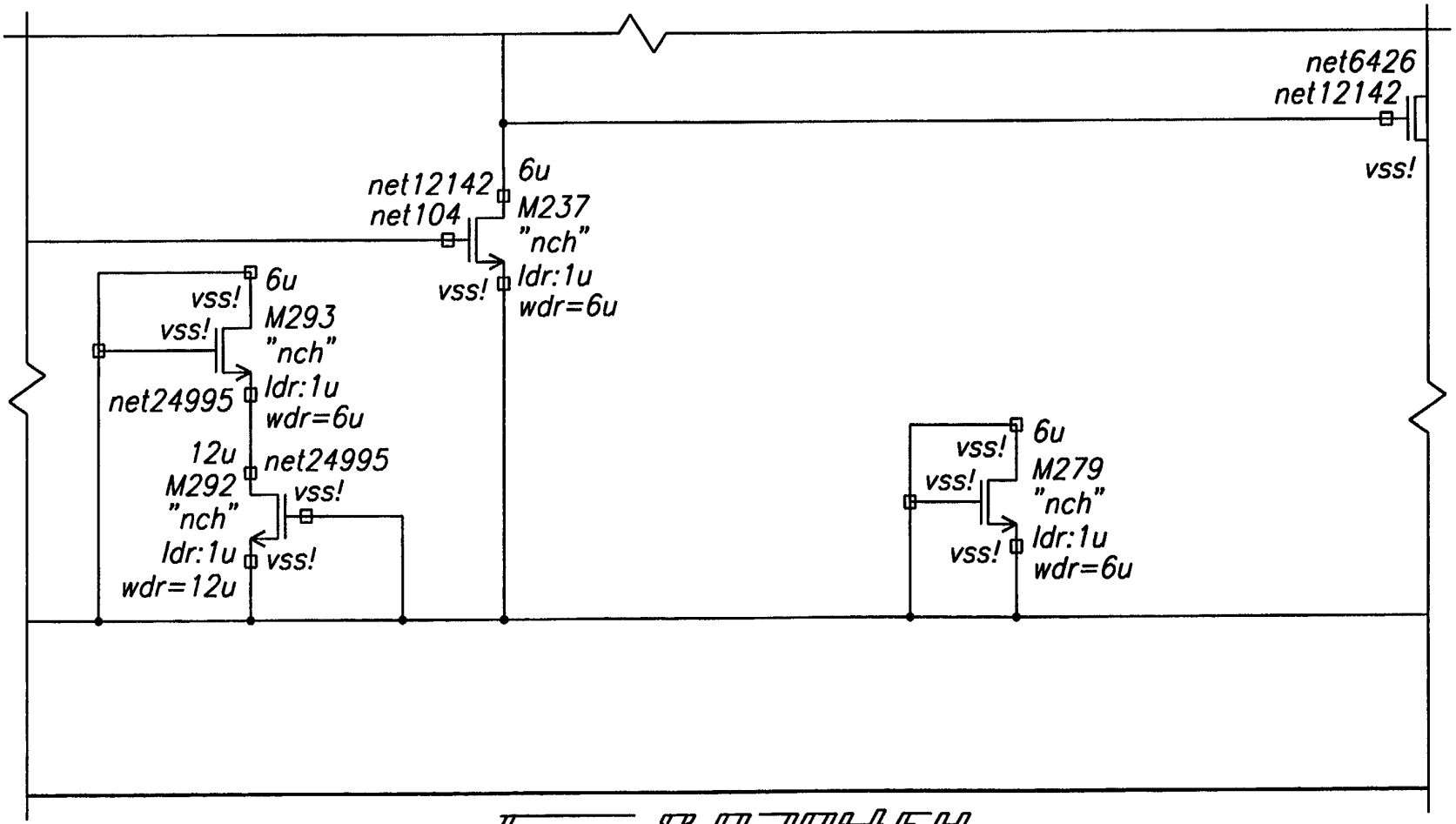
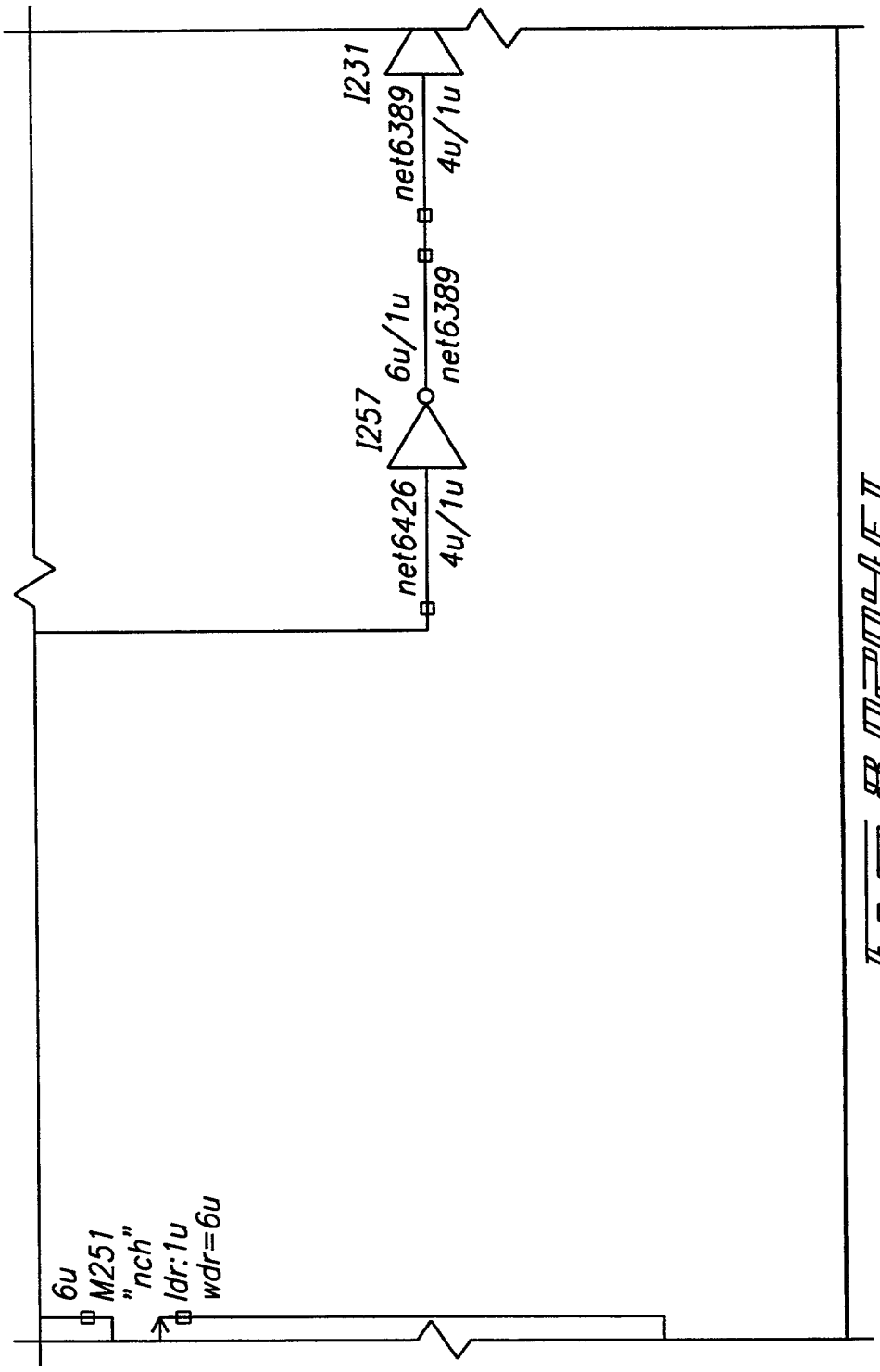

25u/5u
M238
"nch"
ldr=5u
wdr=25u
net32484
net195
vss!
25u/5u
M236
"nch"
ldr=5u
wdr=25u
net11777
net195
vss!
25u/5u
M252
"nch"
ldr=5u
wdr=25u
net11777
net195
vss!
ldr=10u
wdr=8u
vss!

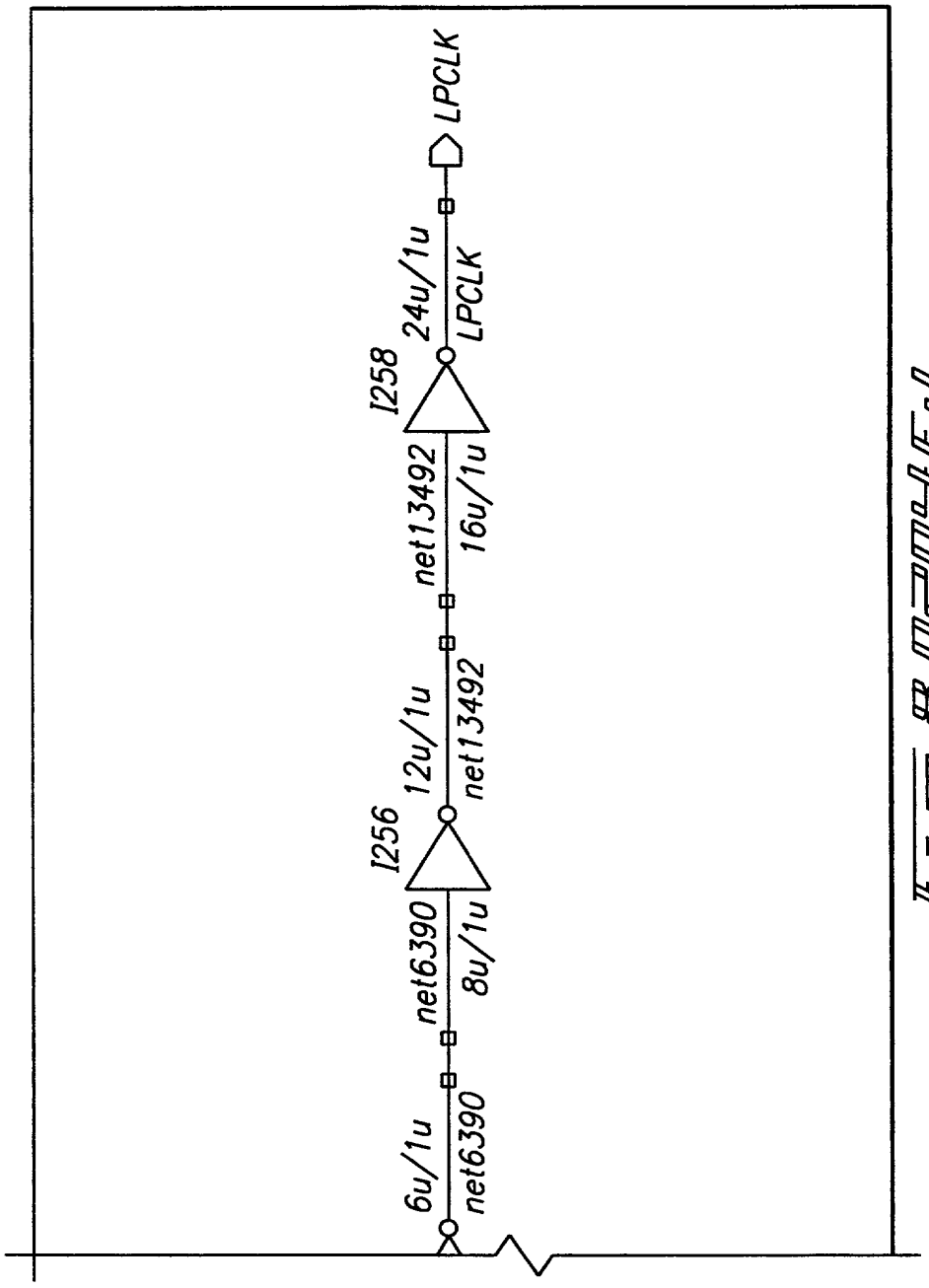
FIG 8.00E+00



Фиг 8.00204EH



Фиг. 8.02004ЕП



Фиг. 8.00204

1015450-20060650

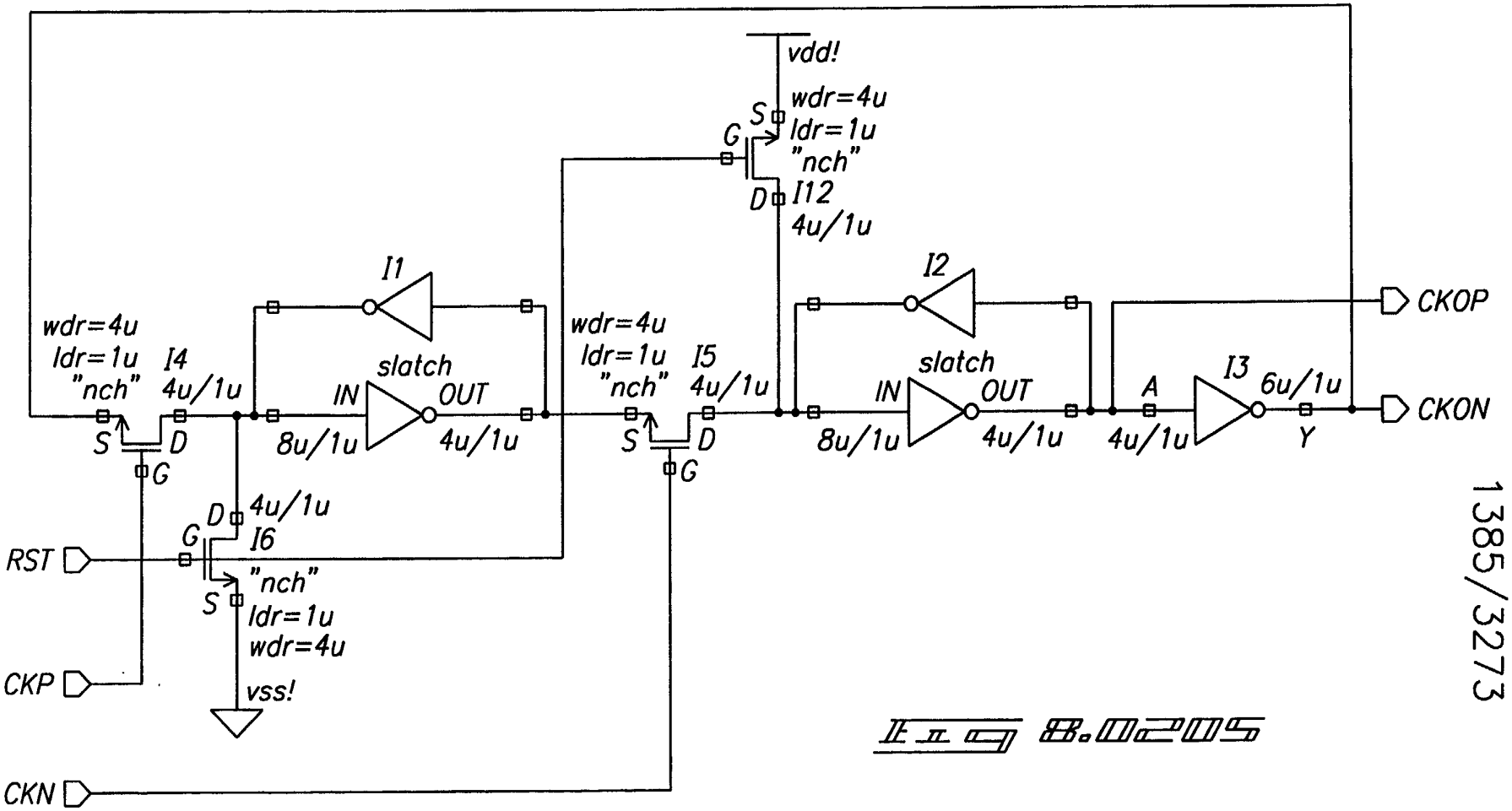
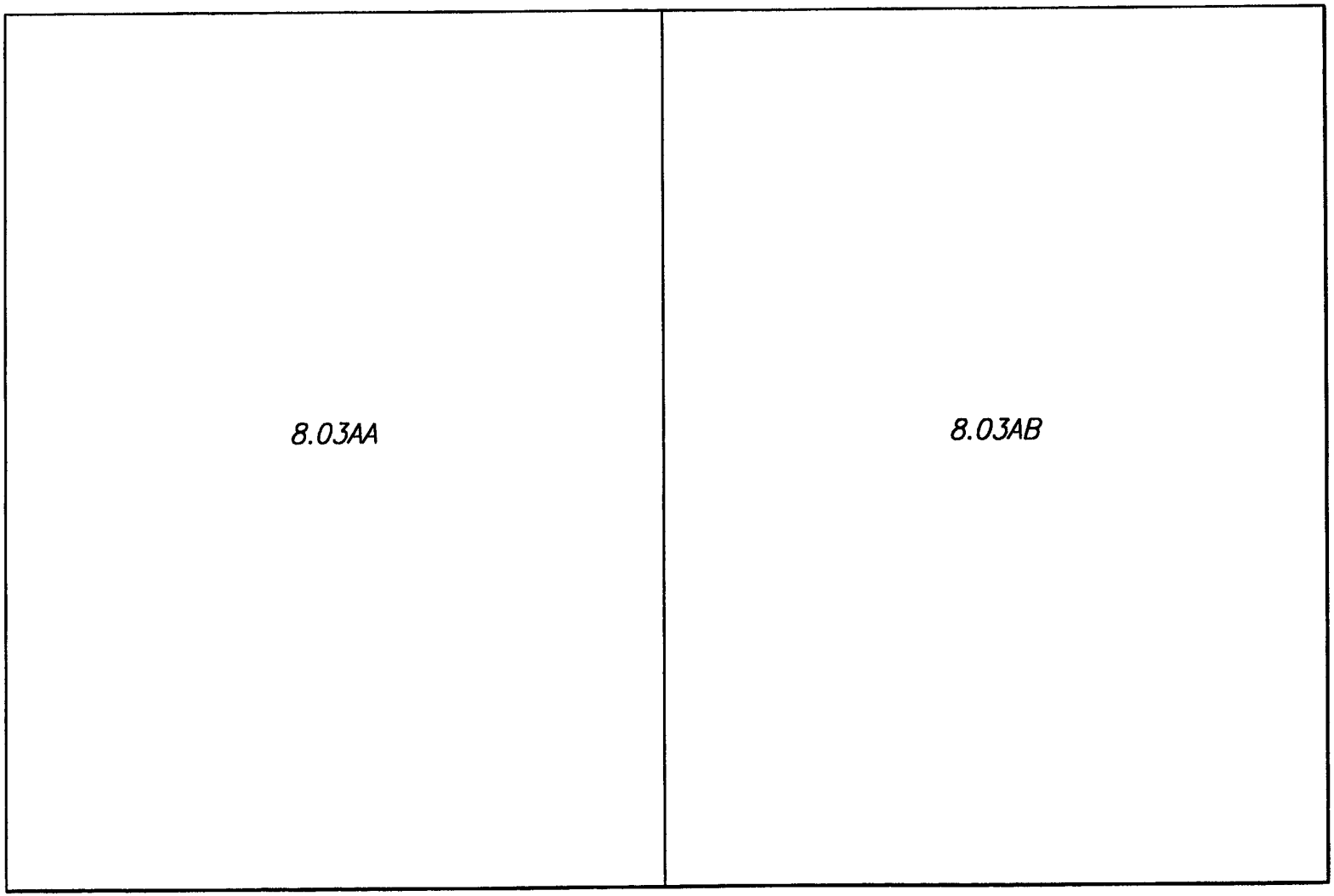
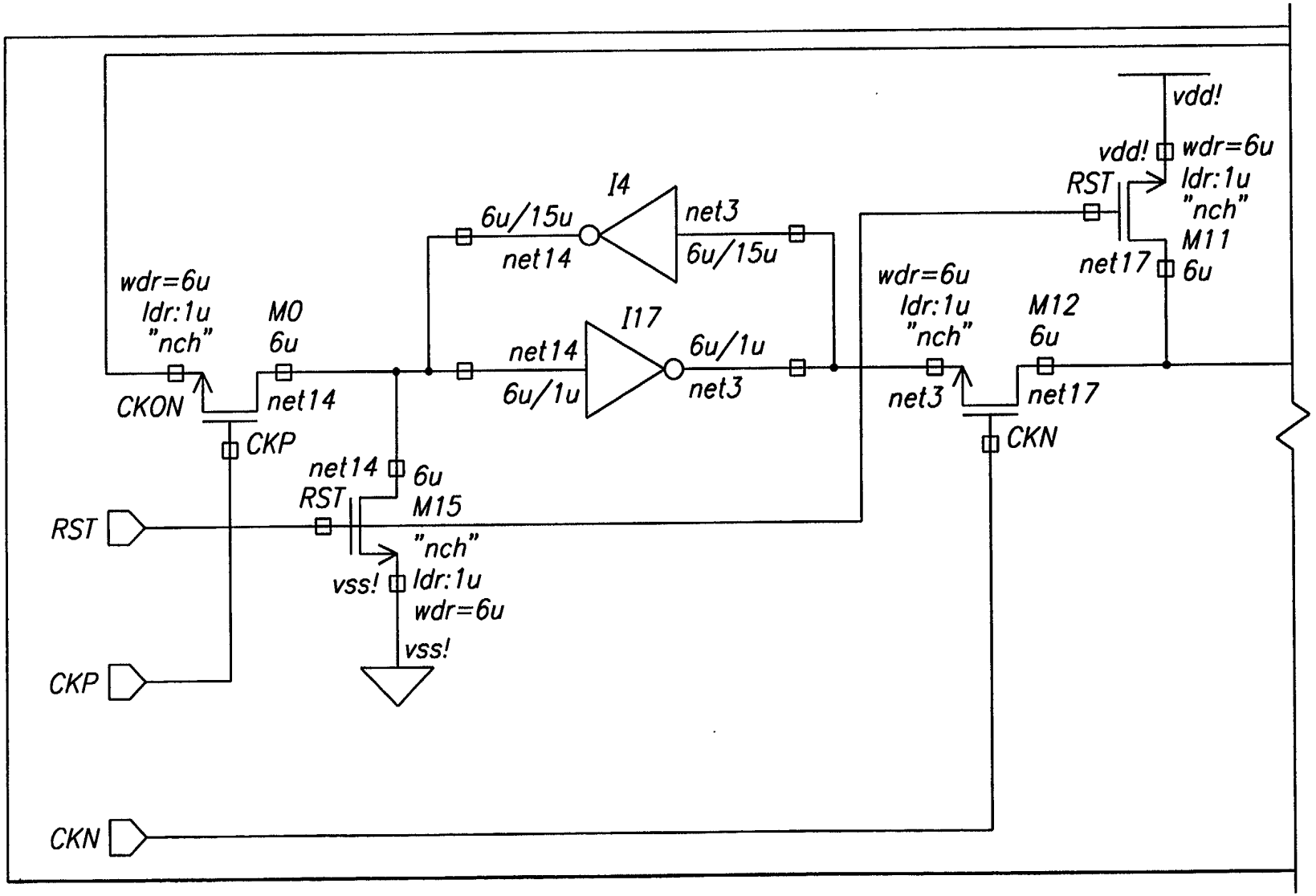

vdd!
wdr=4u
ldr=1u
"nch"
I12
4u/1u
S
G
D
I1
I2
wdr=4u
ldr=1u
"nch"
I4
4u/1u
slatch
IN
OUT
8u/1u
4u/1u
wdr=4u
ldr=1u
"nch"
I5
4u/1u
slatch
IN
OUT
8u/1u
4u/1u
A
I3
6u/1u
Y
CKOP
CKON
D
4u/1u
G
I6
"nch"
S
ldr=1u
wdr=4u
vss!
RST
CKP
CKN

Fig 8.0205

T0T190 E9023860

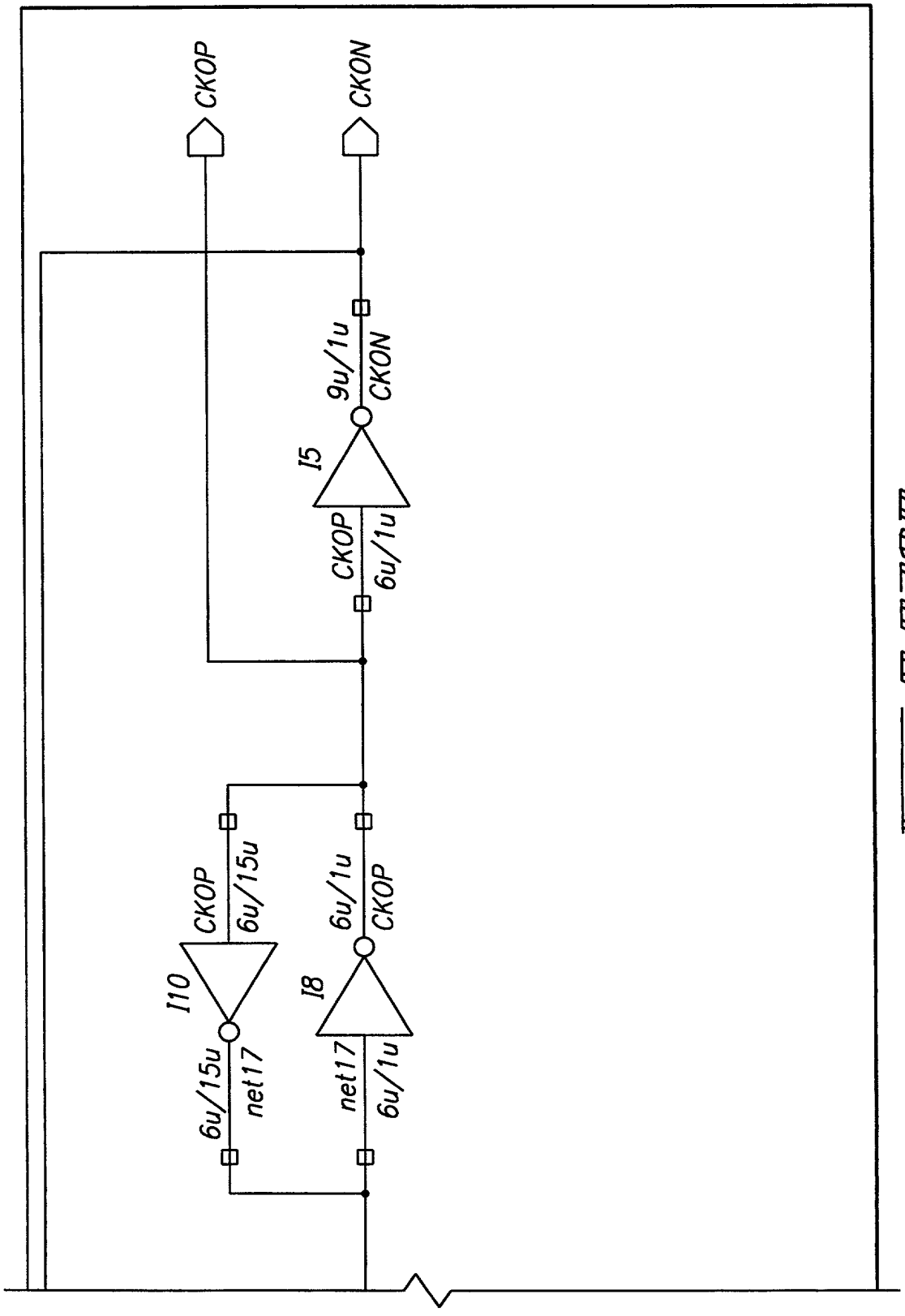


Lot 8.03



1387/3273

Fig 8.03AA

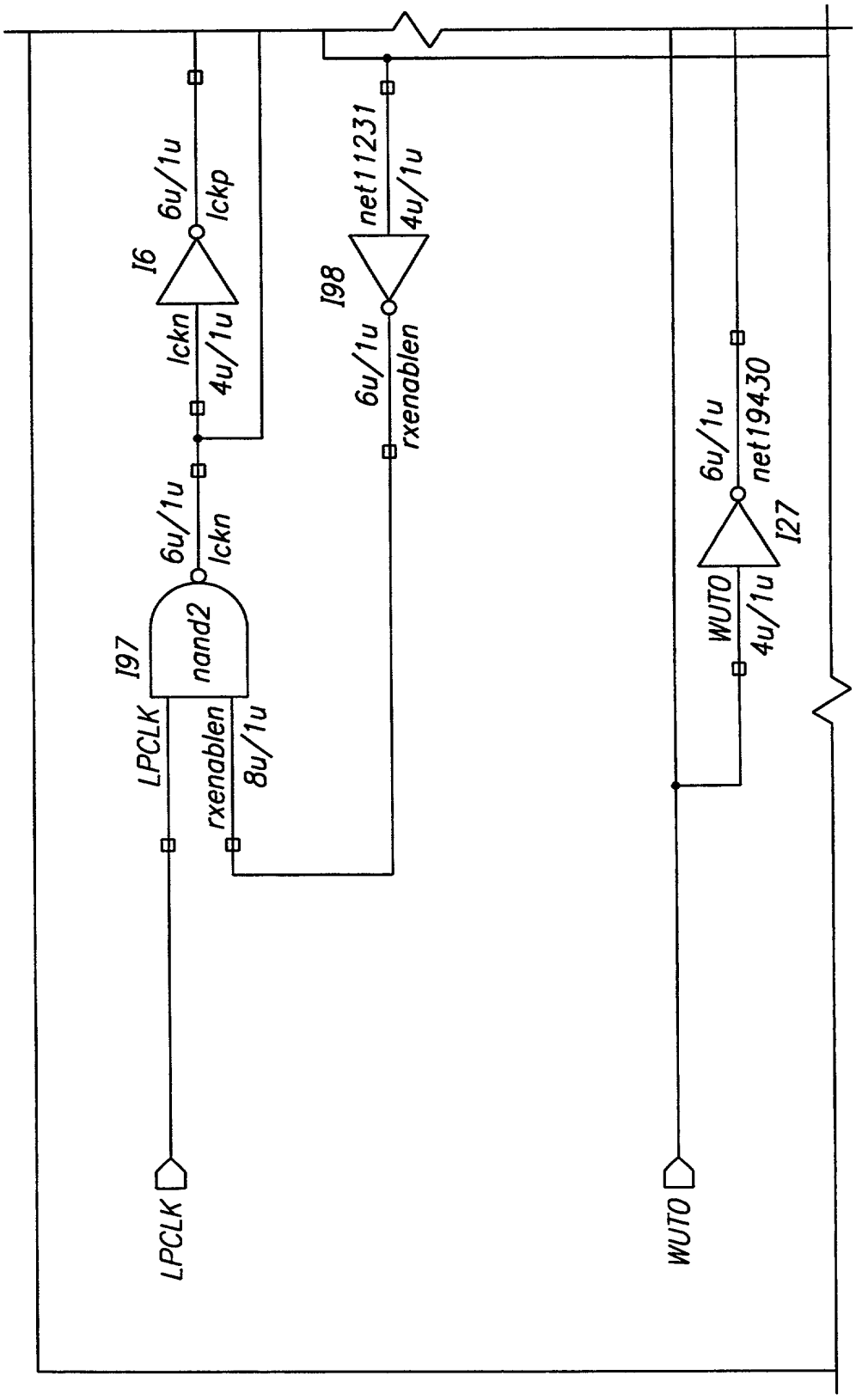


ФИГ 11

ТОЛЬКО РЕФЕРАТ

8.04AA	8.04AB	8.04AC	8.04AD	8.04AE	8.04AF
8.04BA	8.04BB	8.04BC	8.04BD	8.04BE	8.04BF
8.04CA	8.04CB	8.04CC	8.04CD	8.04CE	8.04CF
8.04DA	8.04DB	8.04DC	8.04DD	8.04DE	
8.04EA	8.04EB	8.04EC	8.04ED	8.04EE	

Fig 8.04



Фиг. 8в. Предшествующее

1011150-20020501

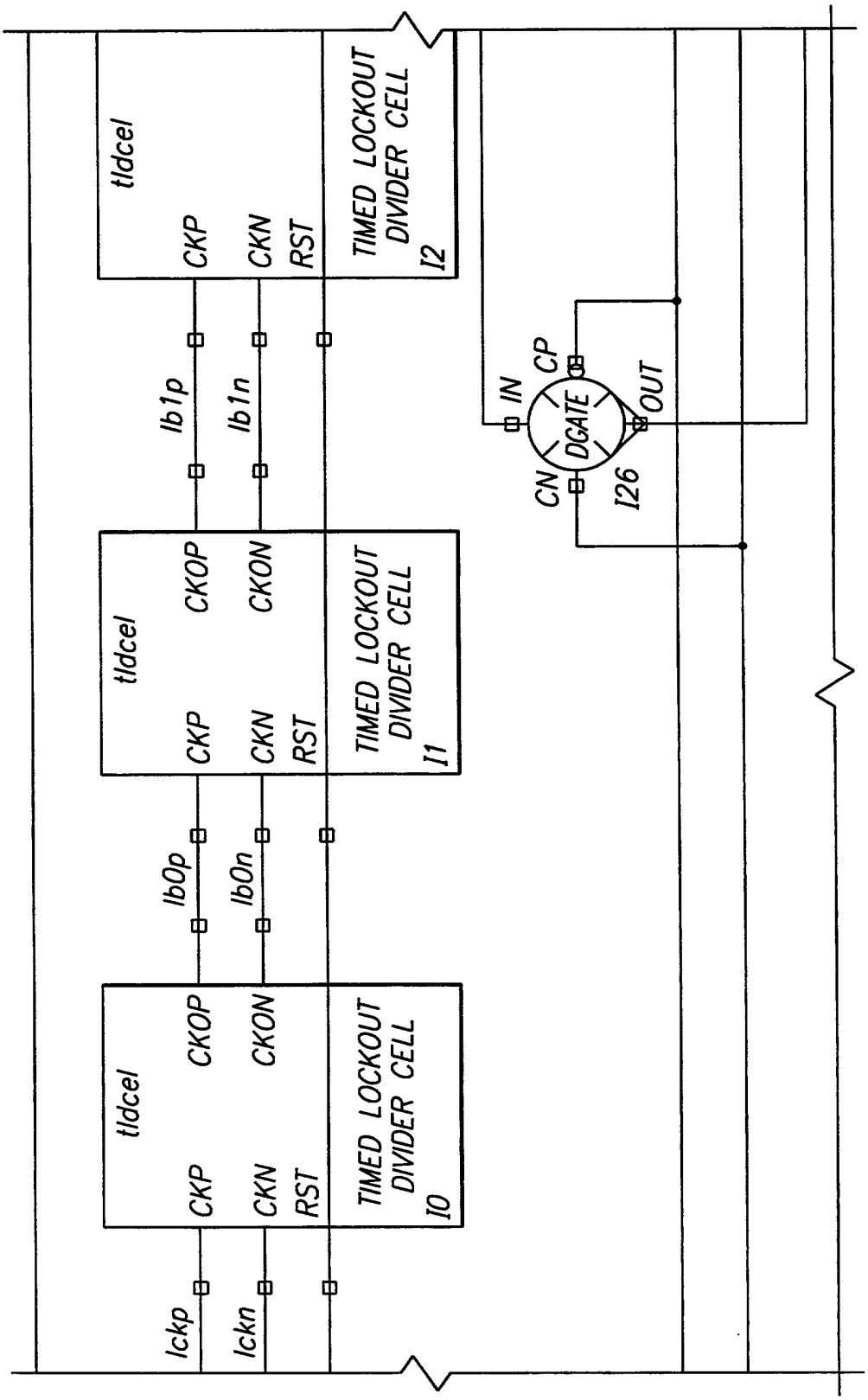
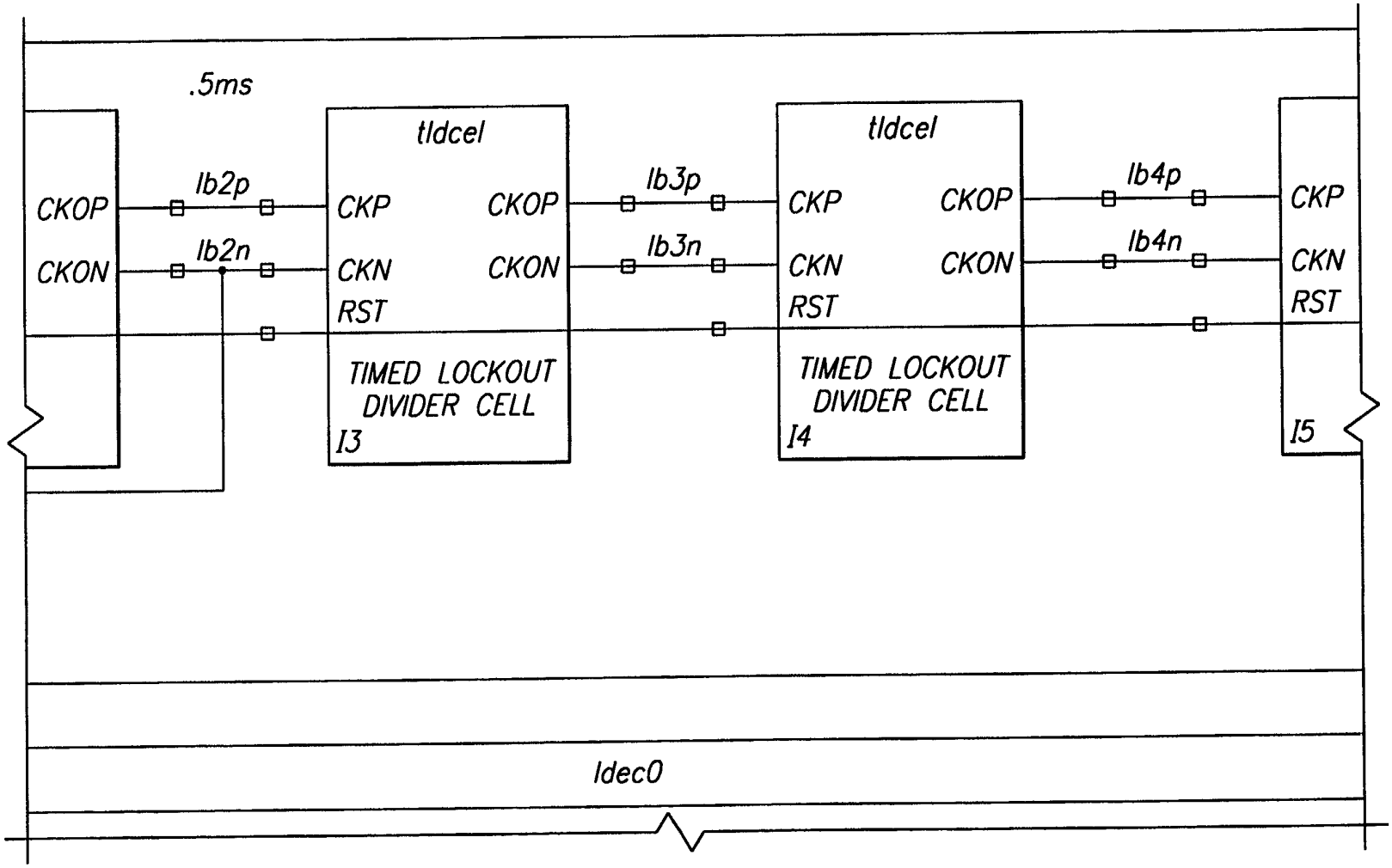

tldcel
CKP
CKN
RST
TIMED LOCKOUT DIVIDER CELL
I2
lb1p
lb1n
tldcel
CKOP
CKON
CKP
CKN
RST
TIMED LOCKOUT DIVIDER CELL
I1
lb0p
lb0n
tldcel
CKOP
CKON
CKP
CKN
RST
TIMED LOCKOUT DIVIDER CELL
I0
lckp
lckn
IN
CP
DGATE
OUT
CN
I26

FIG. 8.04A



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Fig 8.04AC

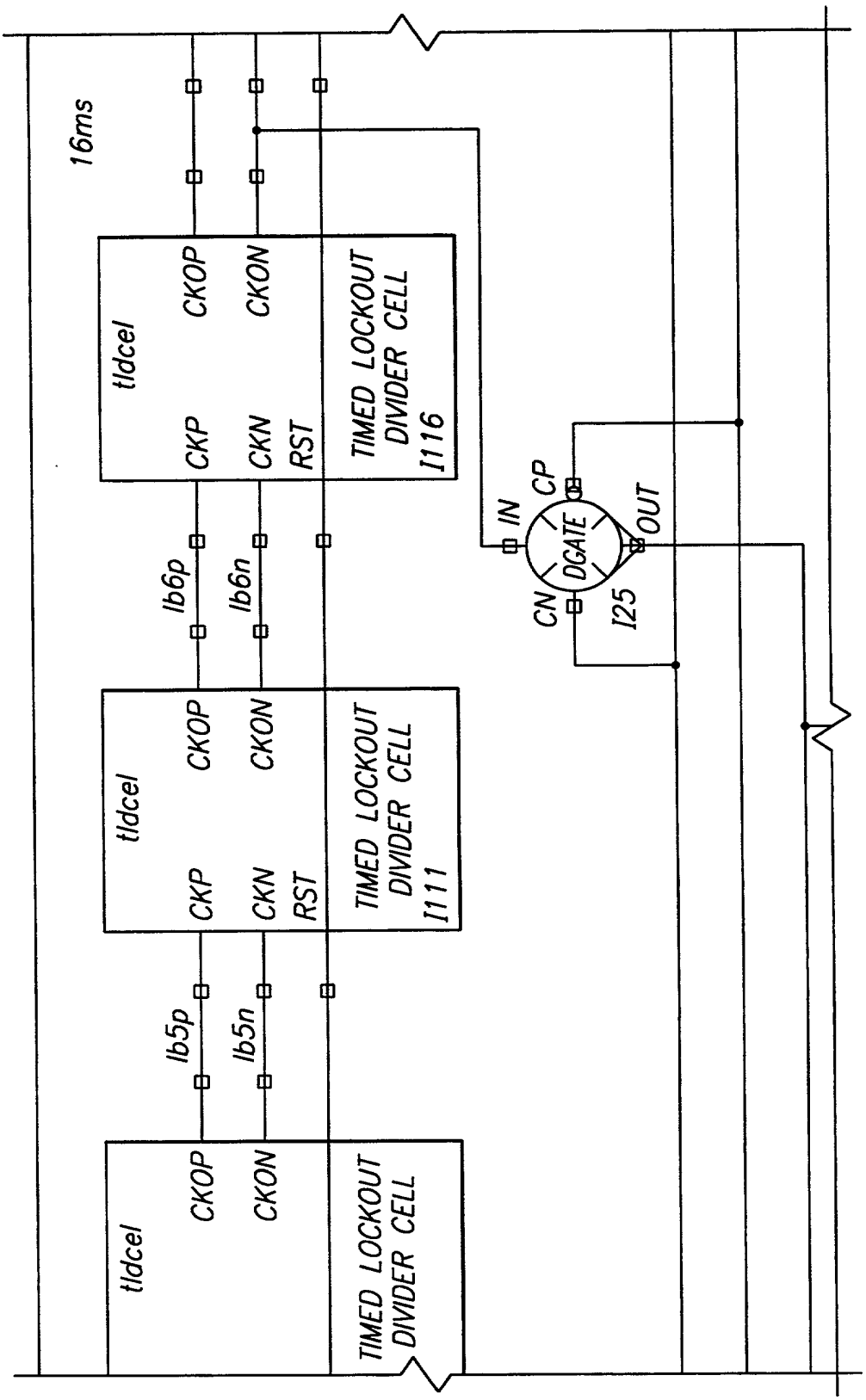
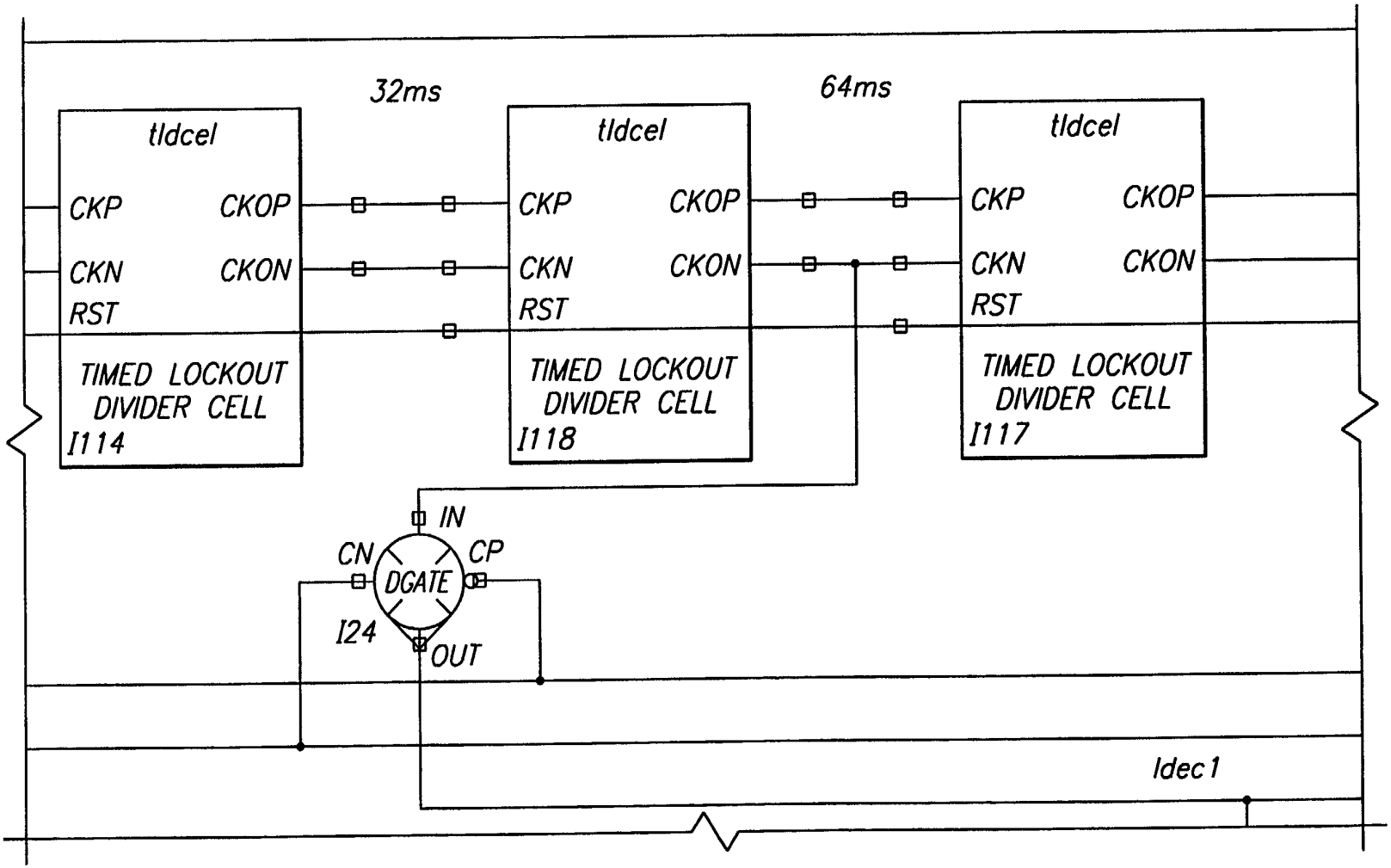

16ms
tldcel
CKOP
CKON
CKP
CKN
RST
TIMED LOCKOUT DIVIDER CELL I116
lb6p
lb6n
TIMED LOCKOUT DIVIDER CELL I111
lb5p
lb5n
TIMED LOCKOUT DIVIDER CELL
IN
CP
DGATE
OUT
CN
I25

FIG 98.04A/B



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Fig 8.04AE

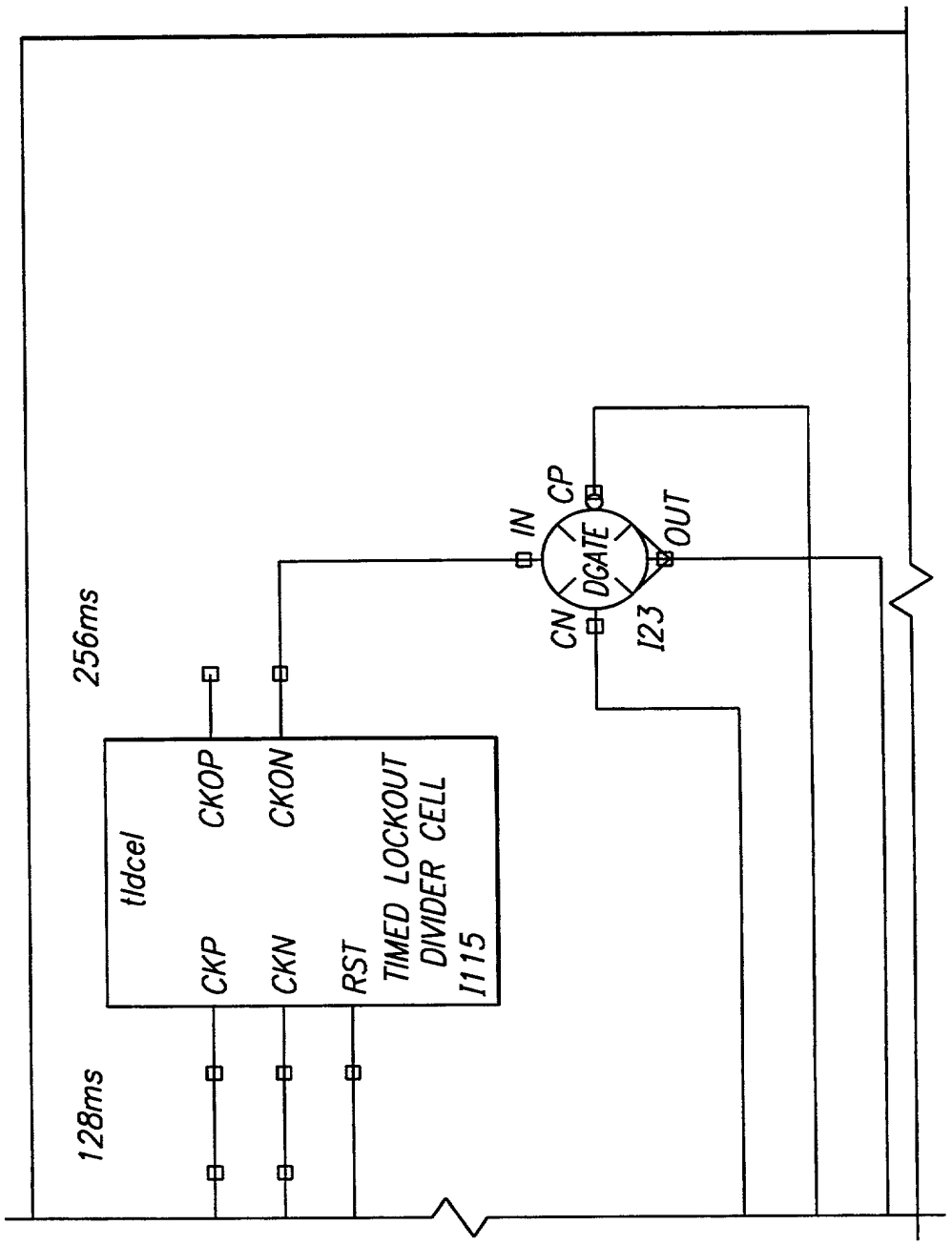


FIG 88.00 SHEET

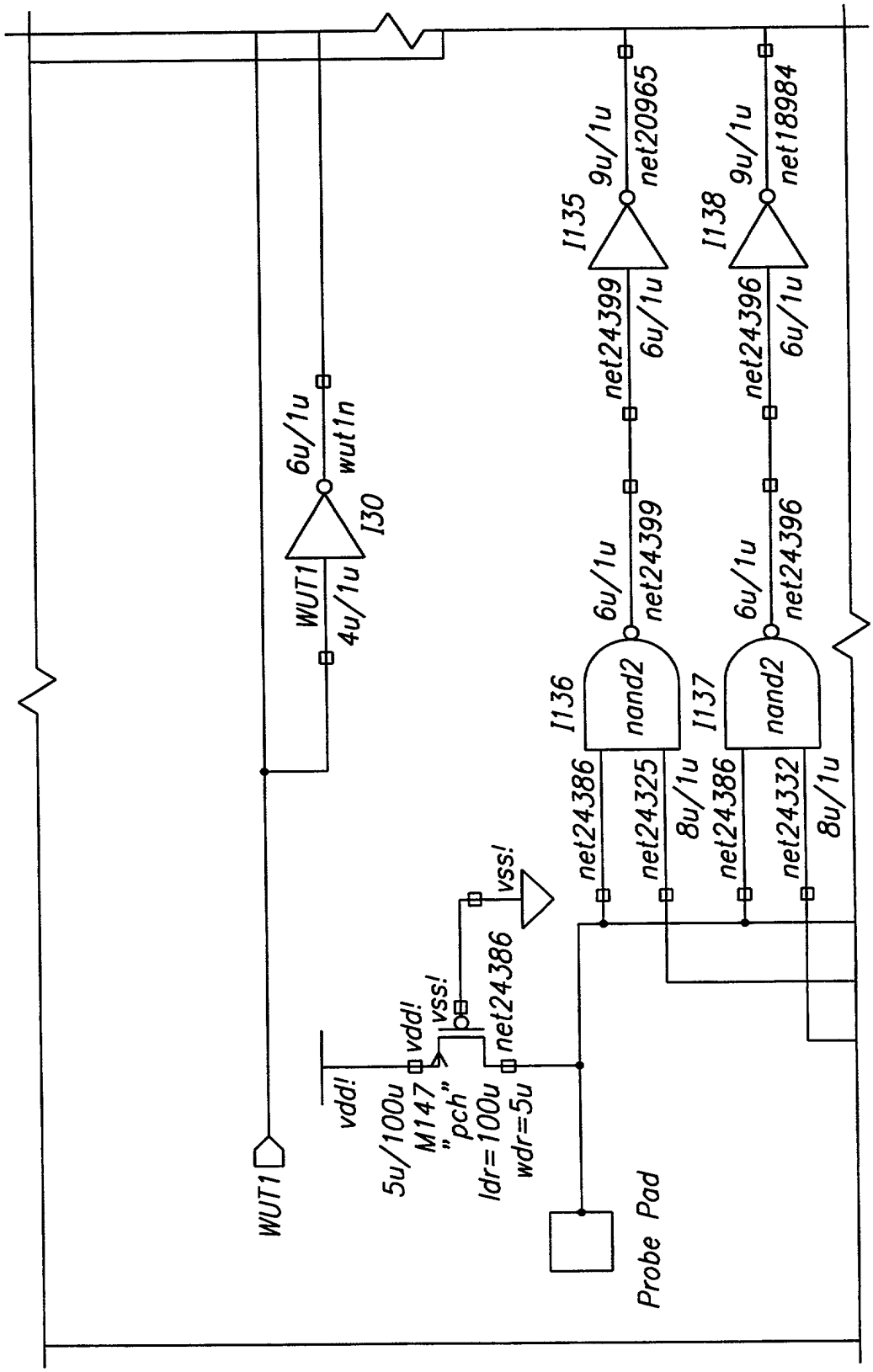
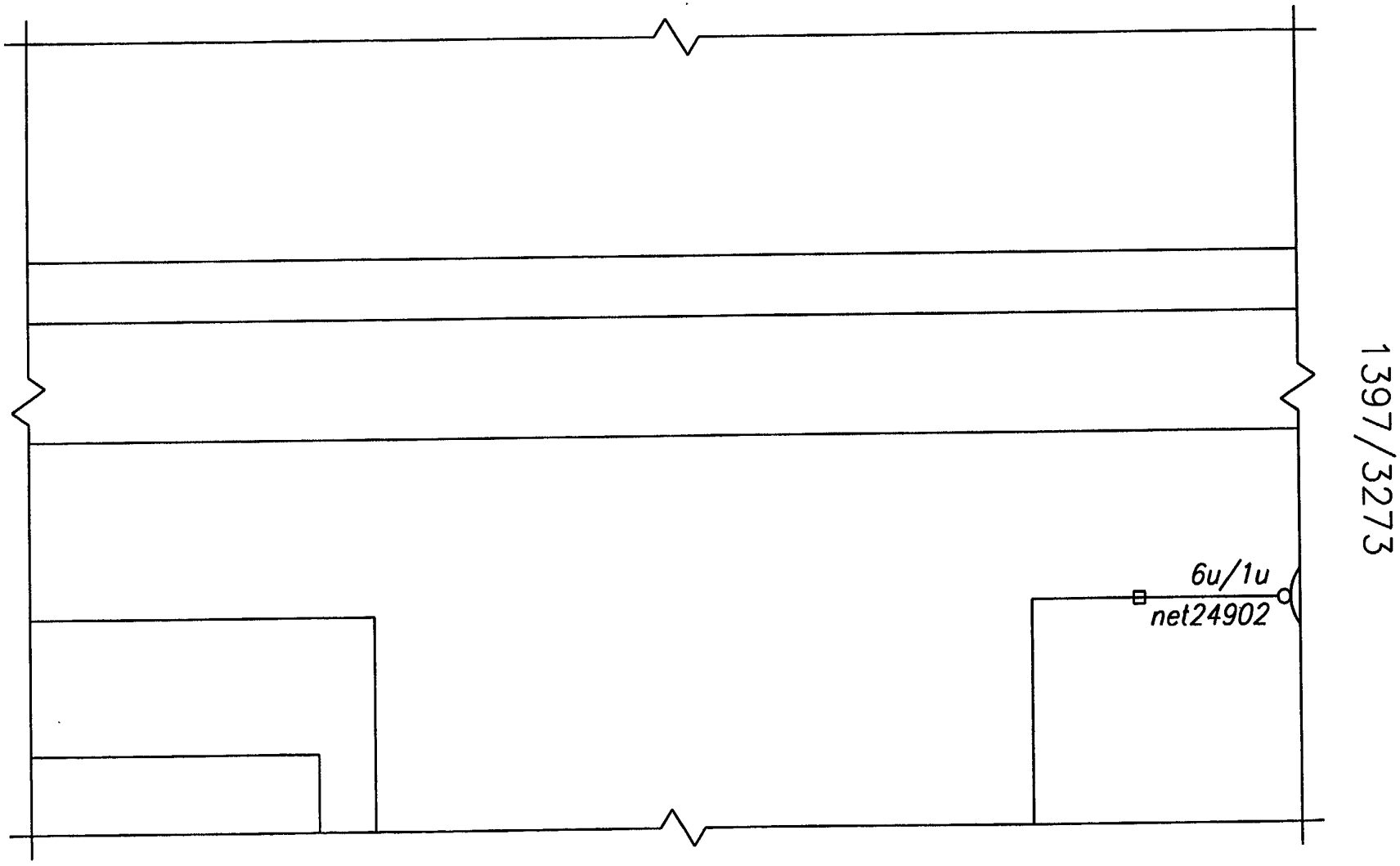


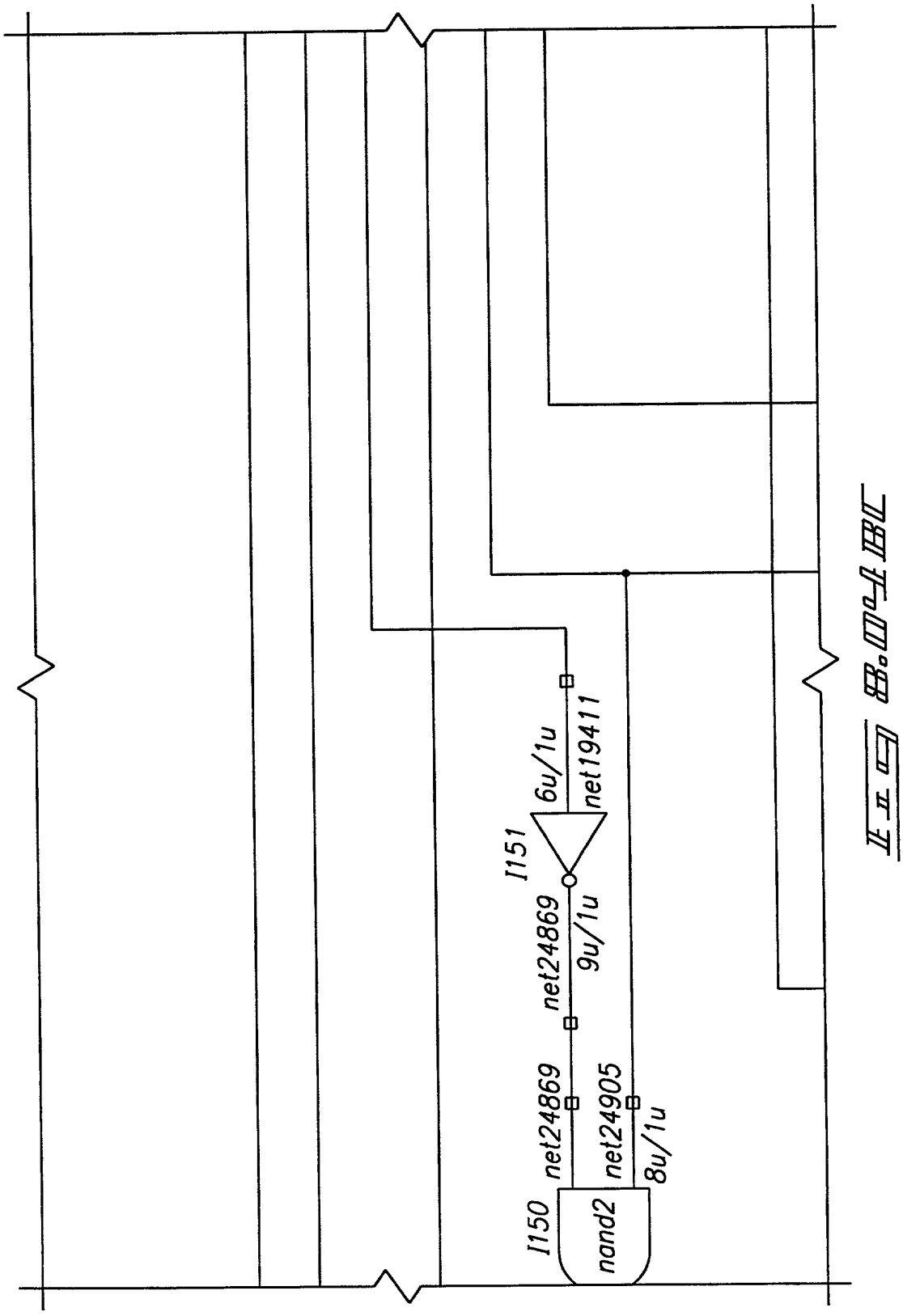
Fig. 88.1

FC1450-20020890

TOTTSO" ES0232860



Фиг. 8.04 ВВ



Патент США

US 9,594,095 B2

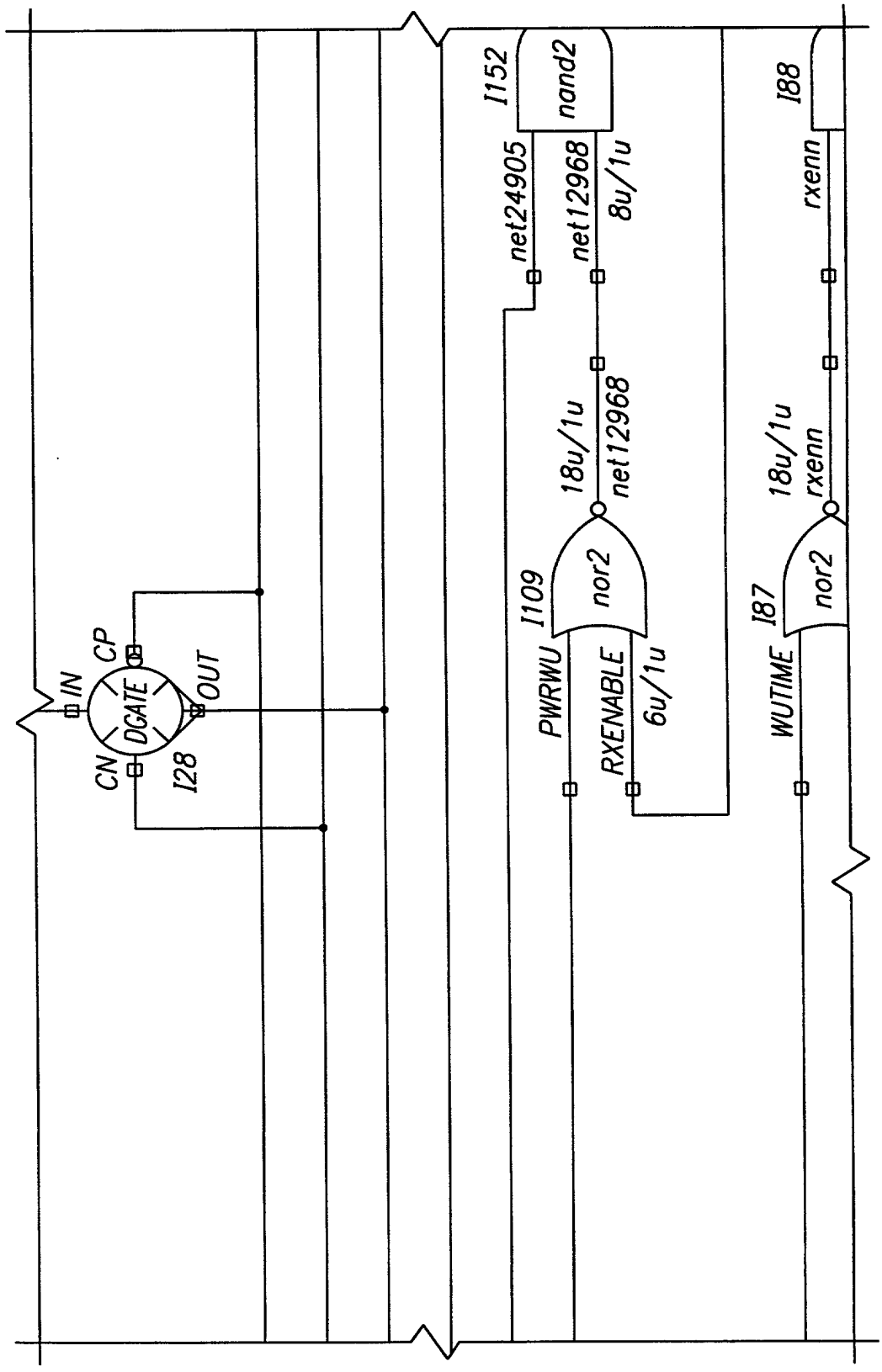
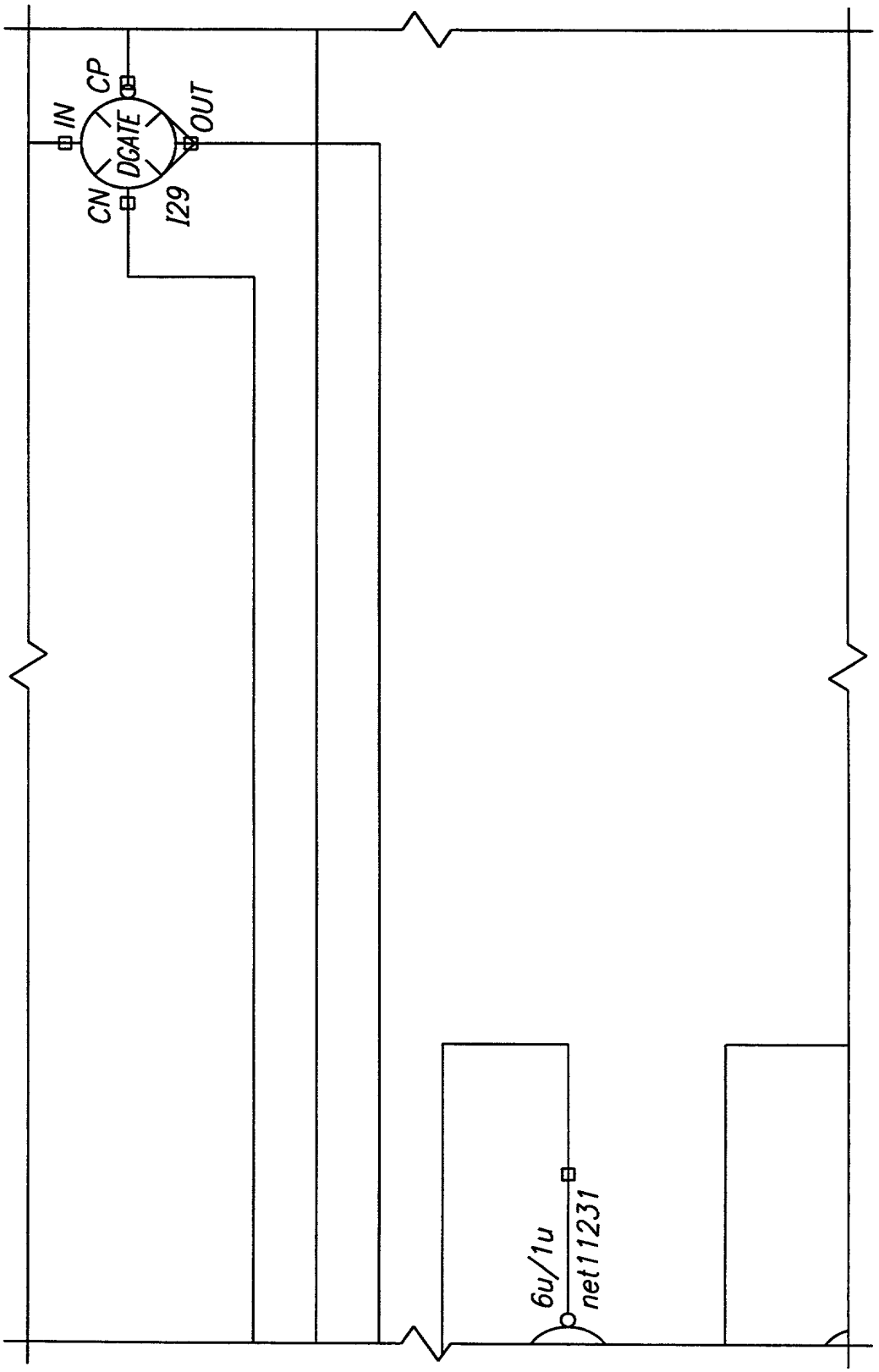


FIG. 88

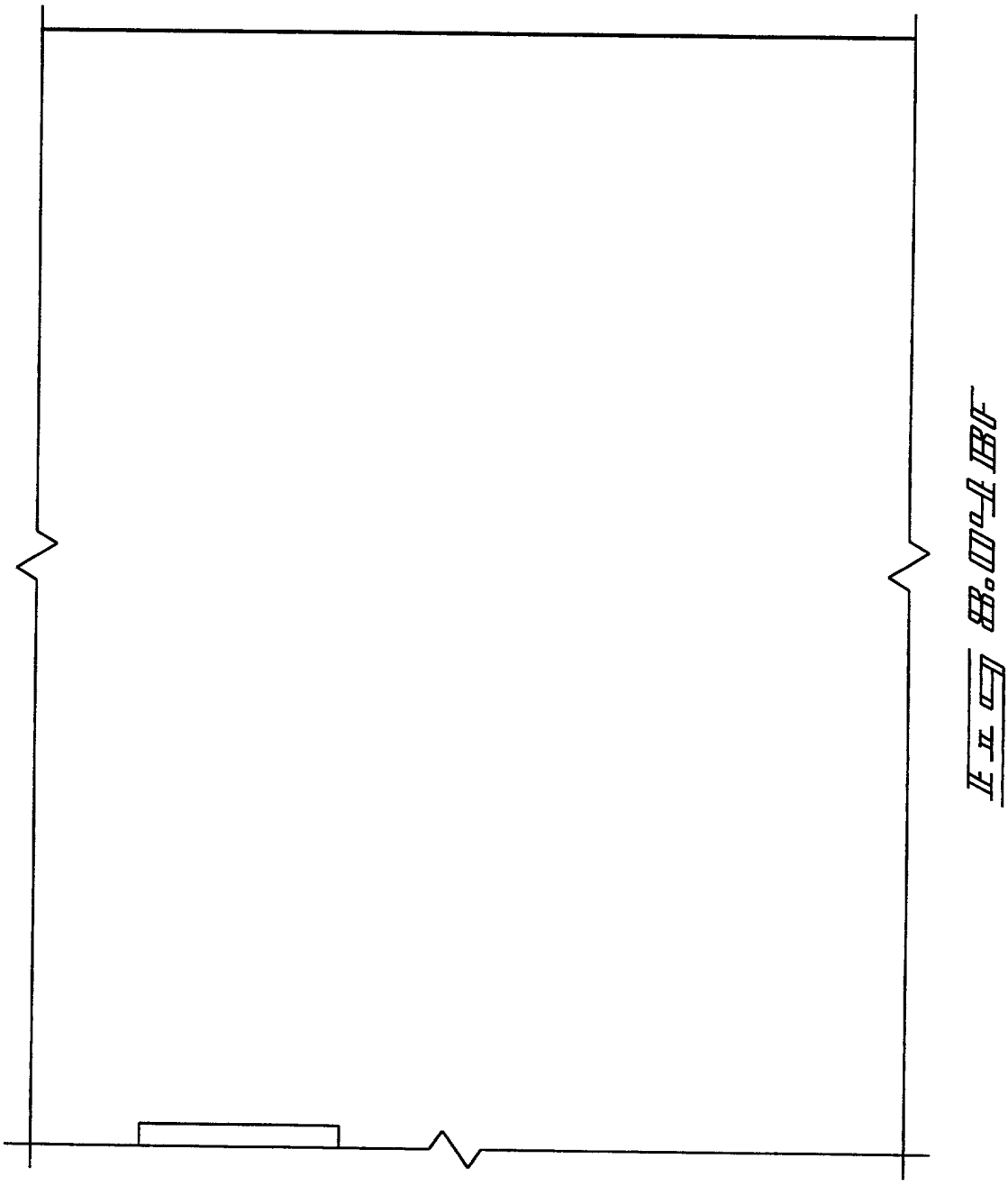
US 6,594,799 B1

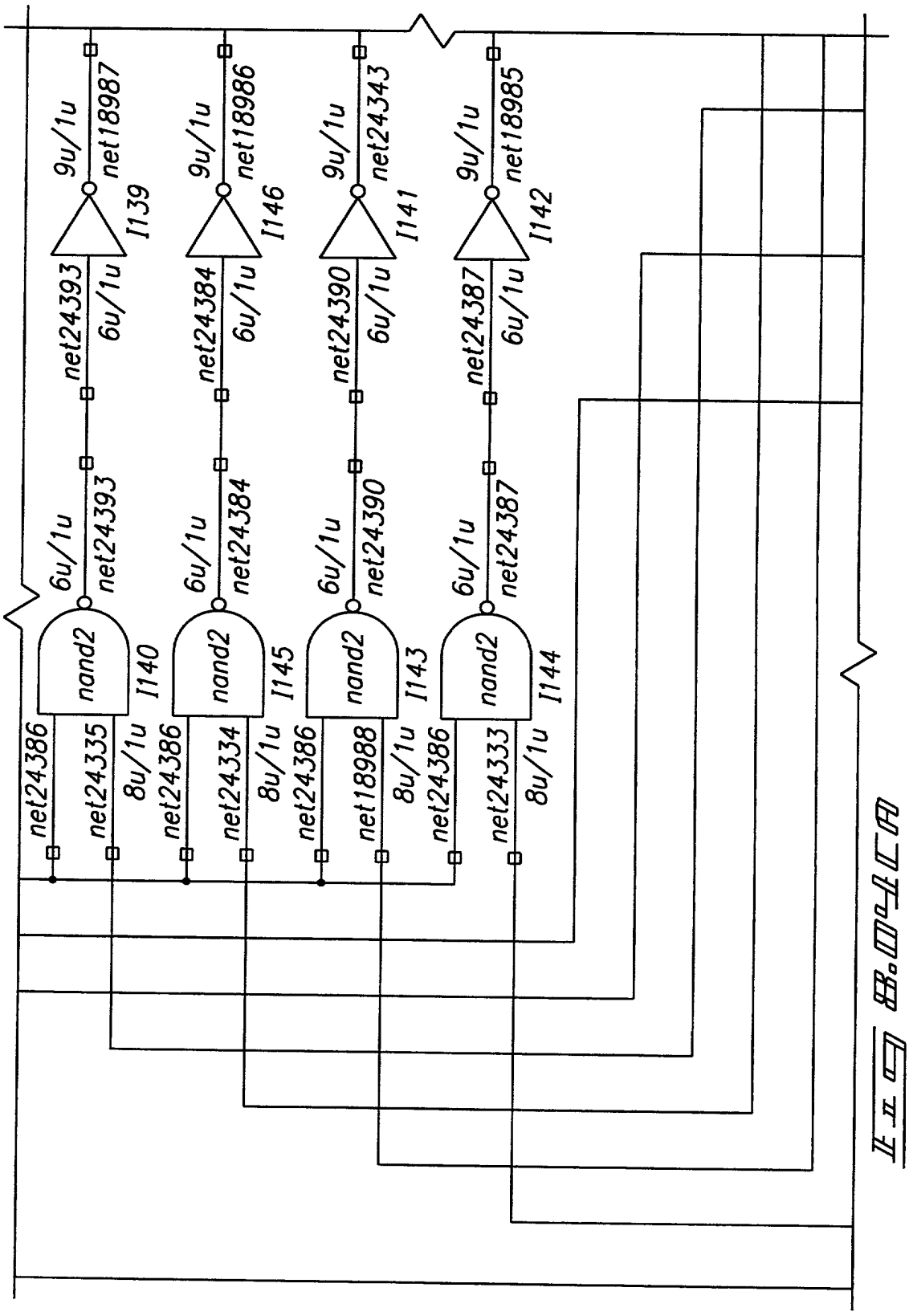


ЭЛЕМЕНТ 88.00

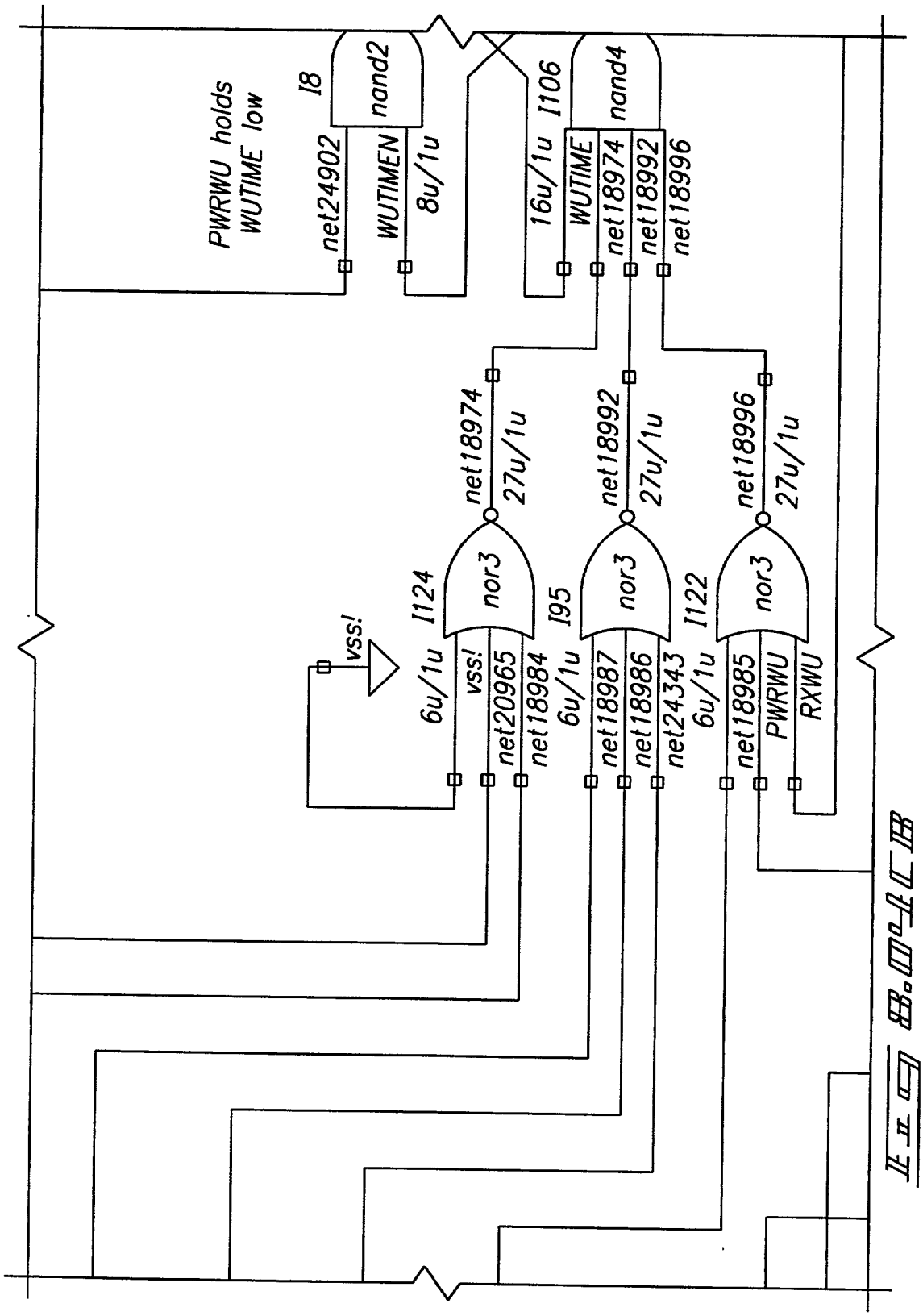
patent-2595995

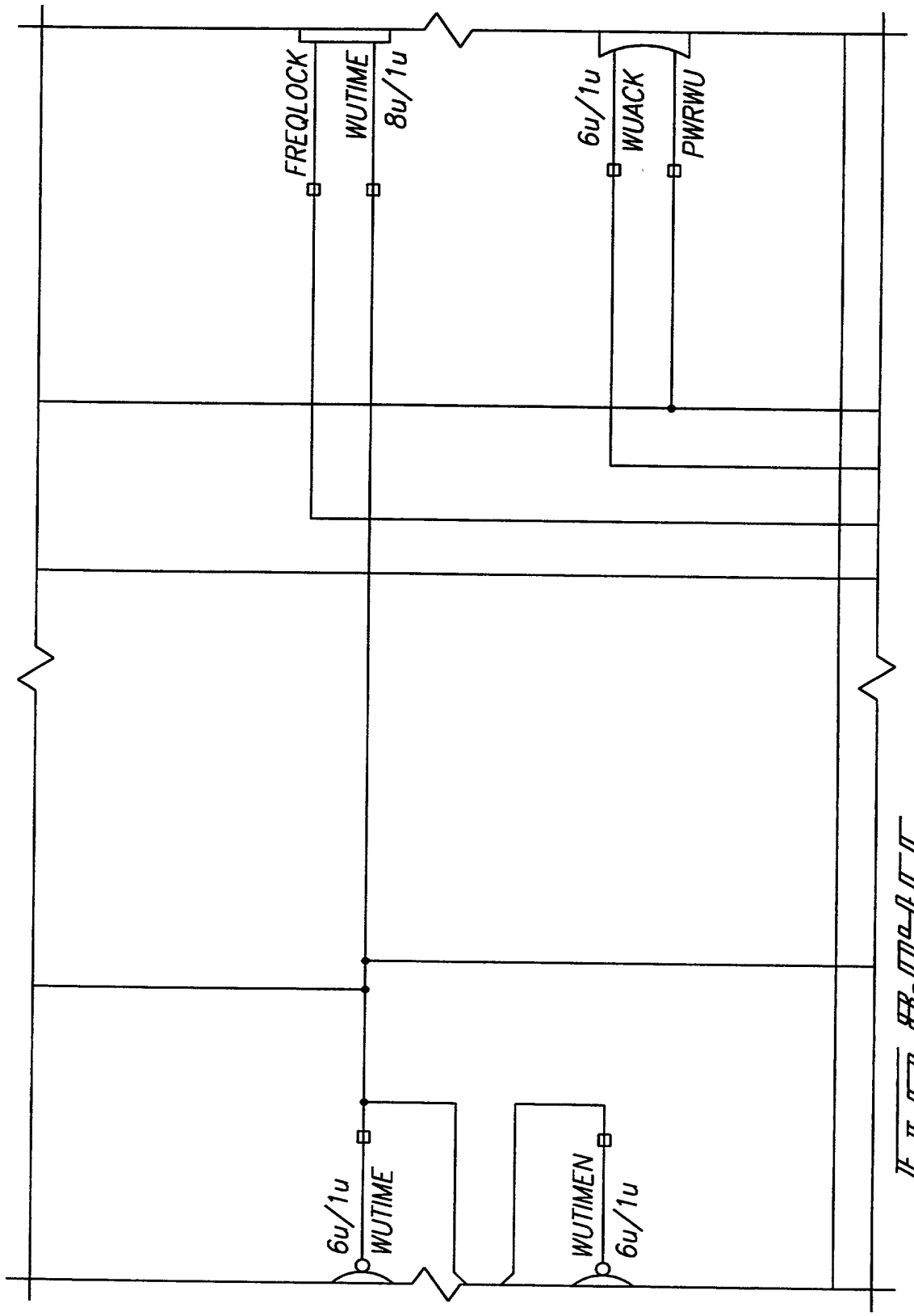
1401/3273




net24386
net24335
8u/1u
net24386
net24334
8u/1u
net24386
net18988
8u/1u
net24386
net24333
8u/1u
6u/1u
net24393
6u/1u
net24384
6u/1u
net24390
6u/1u
net24387
6u/1u
nand2
I140
nand2
I145
nand2
I143
nand2
I144
9u/1u
net24393
net18987
I139
9u/1u
net24384
net18986
I146
9u/1u
net24390
net24343
I141
9u/1u
net24387
net18985
I142

Фиг.8а


PWRWU holds
WUTIME low
I8
nand2
net24902
WUTIMEN
8u/1u
I106
nand4
16u/1u
WUTIME
net18974
net18992
net18996
net18974
27u/1u
net18992
27u/1u
net18996
27u/1u
I124
nor3
I95
nor3
I122
nor3
vss!
6u/1u
vss!
net20965
net18984
6u/1u
net18987
net18986
net24343
6u/1u
net18985
PWRWU
RXWU



Фиг. 88.004

EP 0 954 765 B1

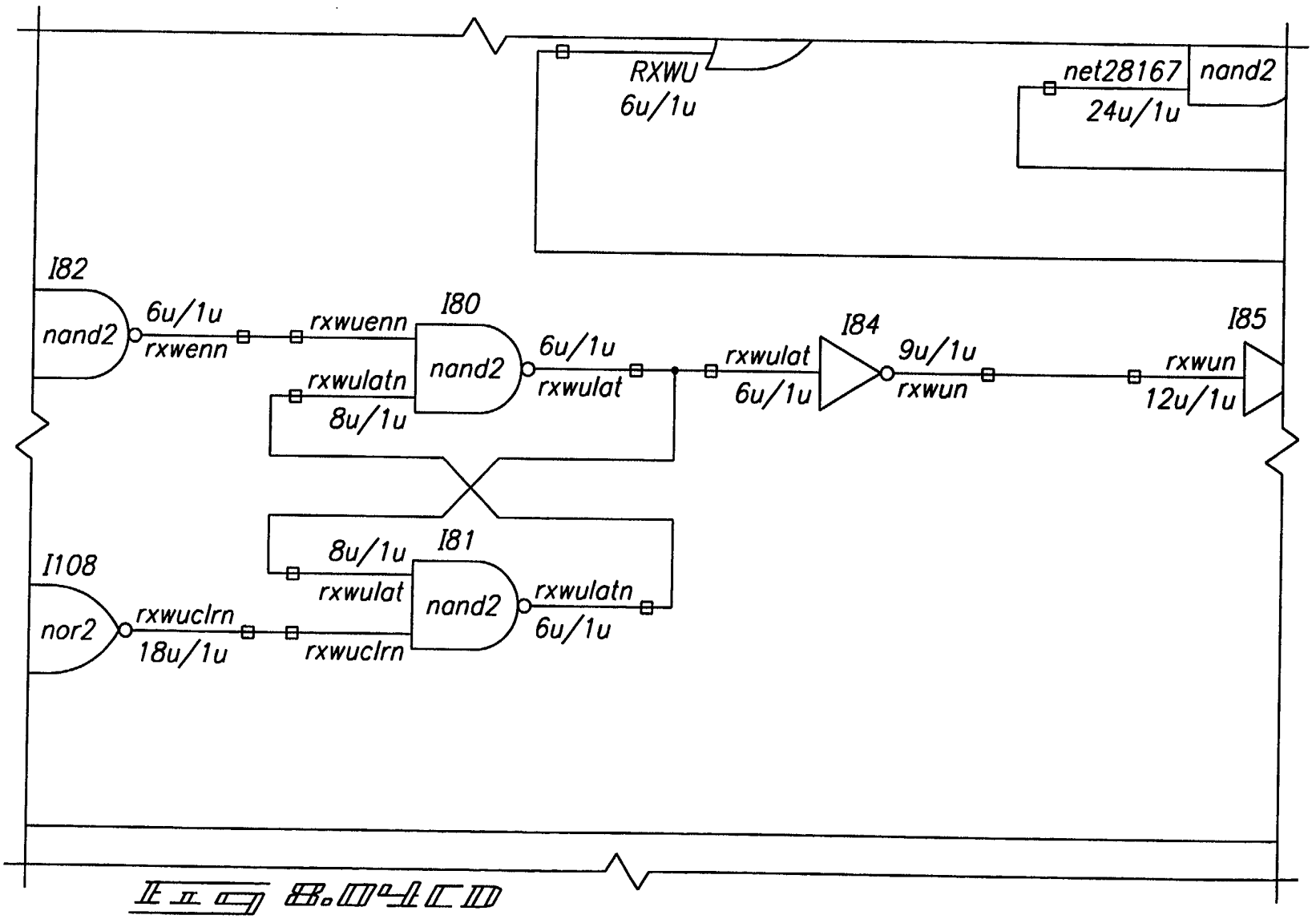
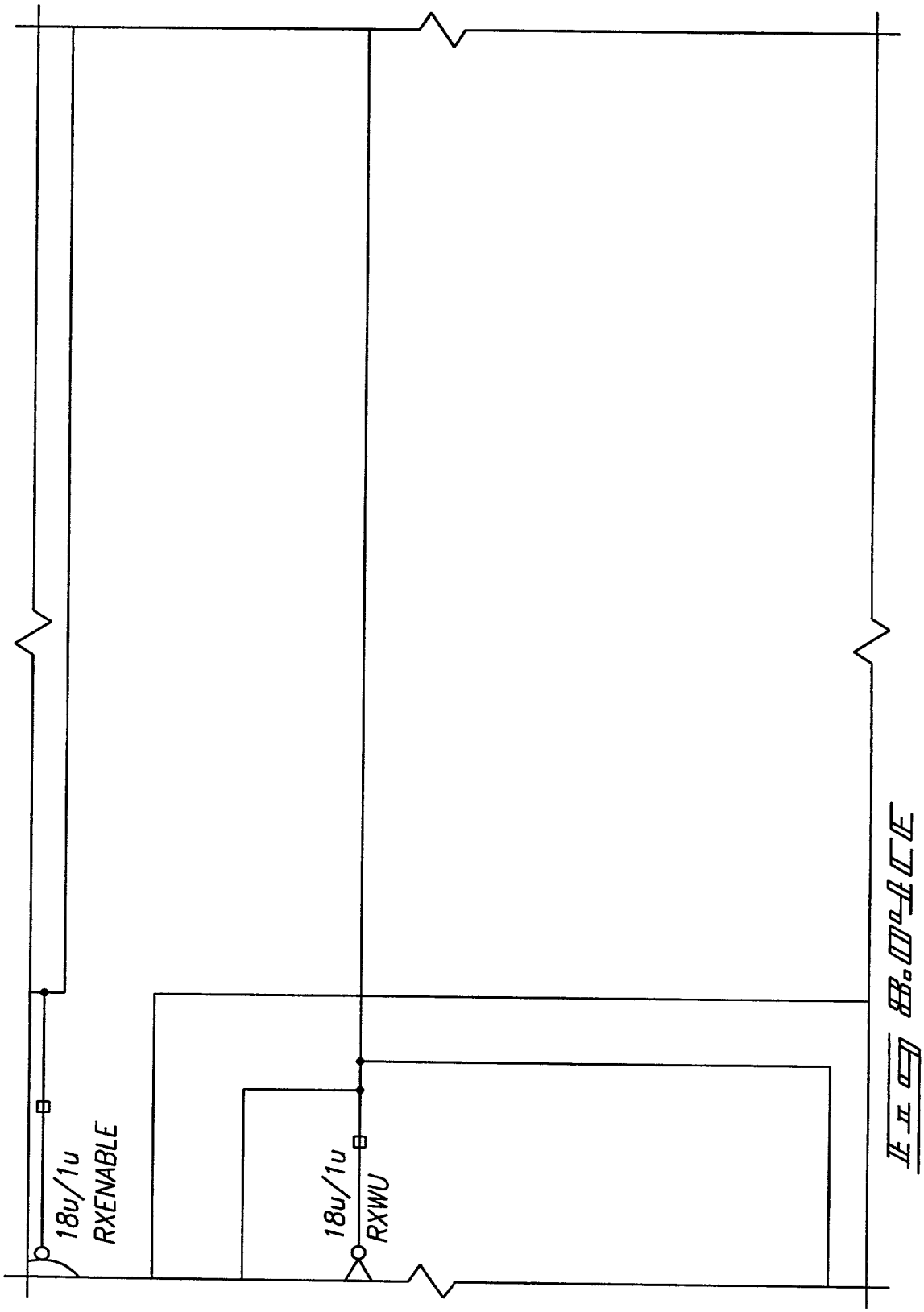


Fig 8.0410

1405/3273



Approved for Public Release

TOTTOD"E9028060

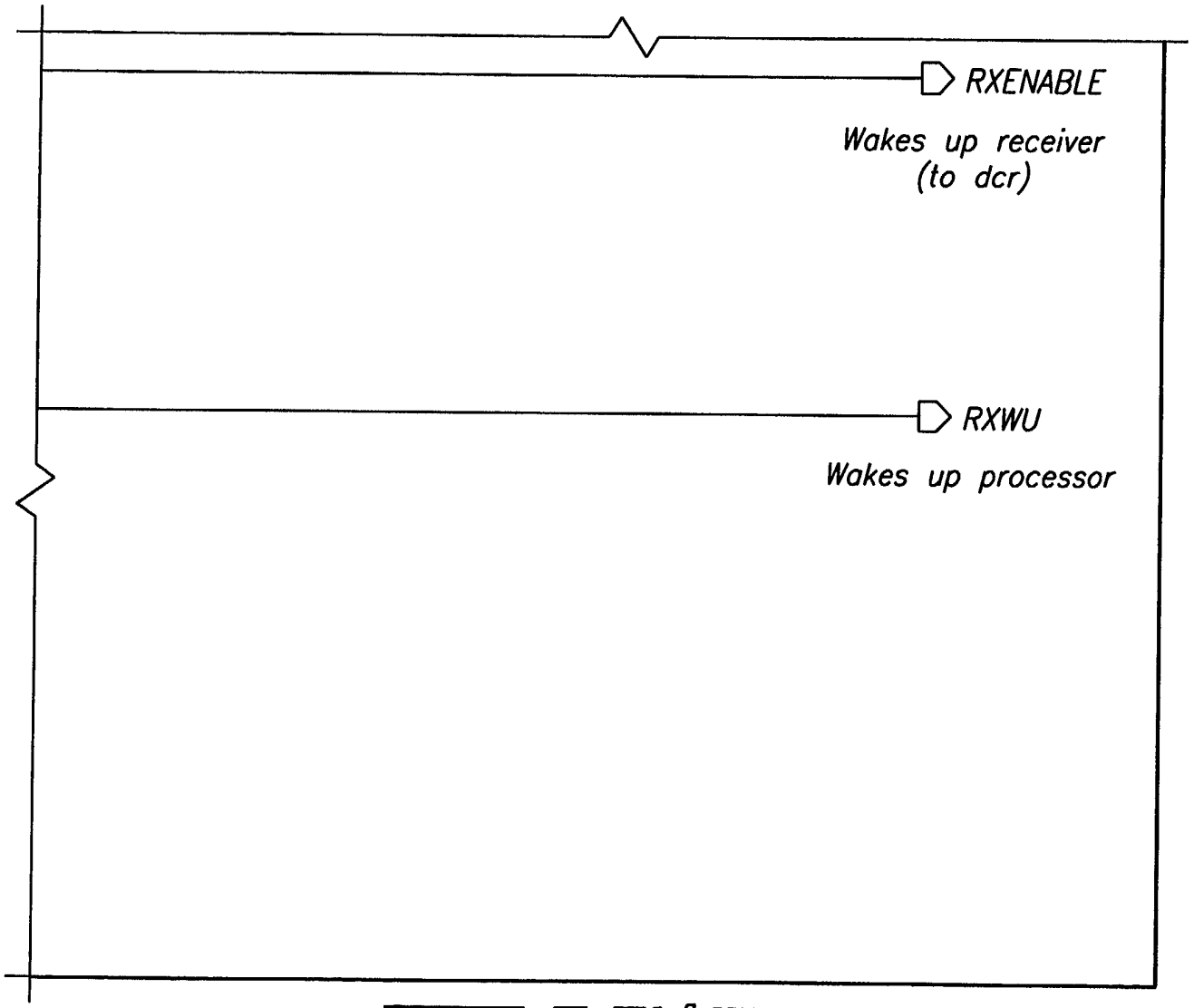
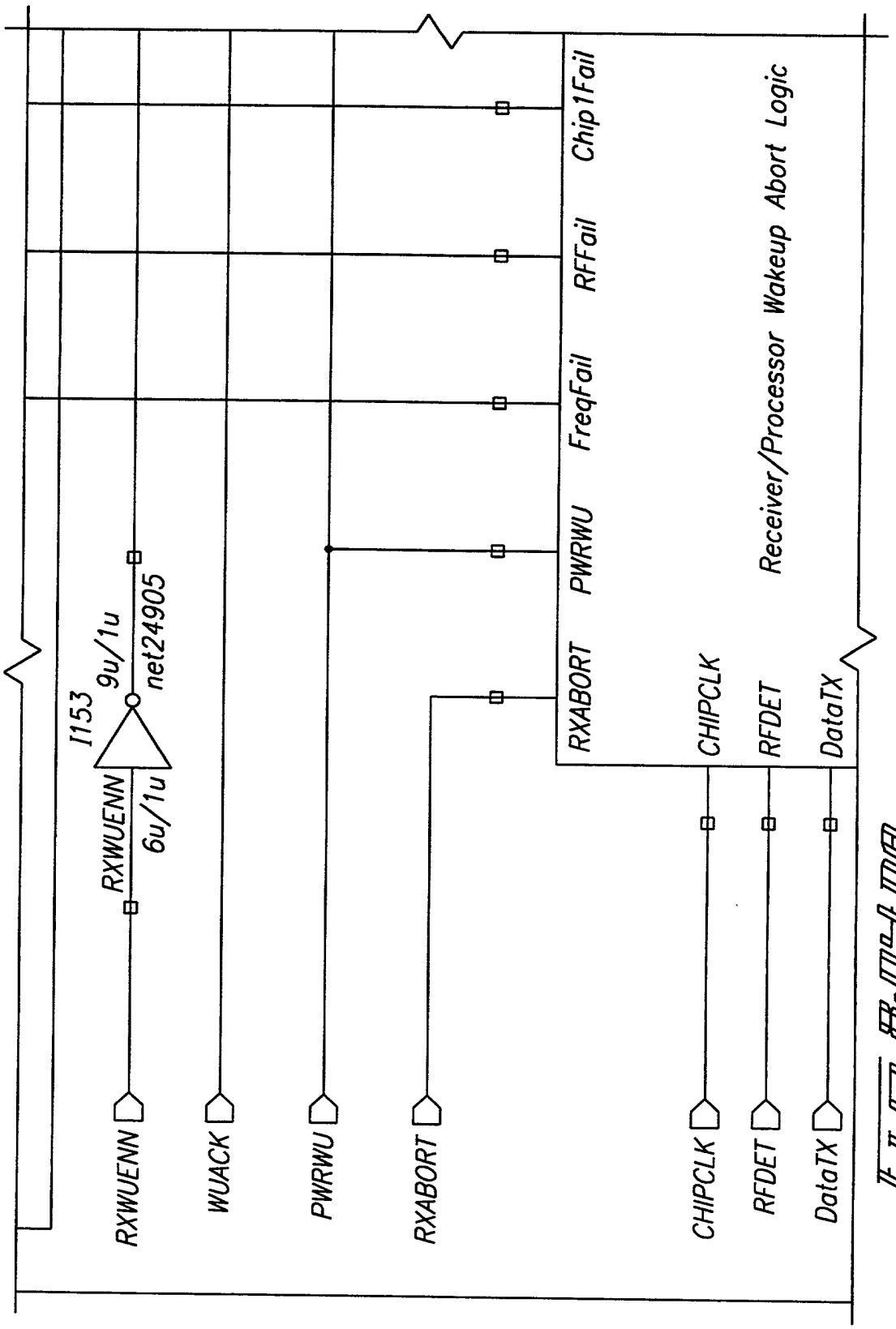


Fig 8.04CF

1407/3273


RXWUENN
WUACK
PWRWU
RXABORT
CHIPCLK
RFDET
DataTX
I153
9u/1u
net24905
6u/1u
RXWUENN
RXABORT
PWRWU
FreqFail
RFFail
Chip1Fail
CHIPCLK
RFDET
DataTX
Receiver/Processor Wakeup Abort Logic

Фиг. 8

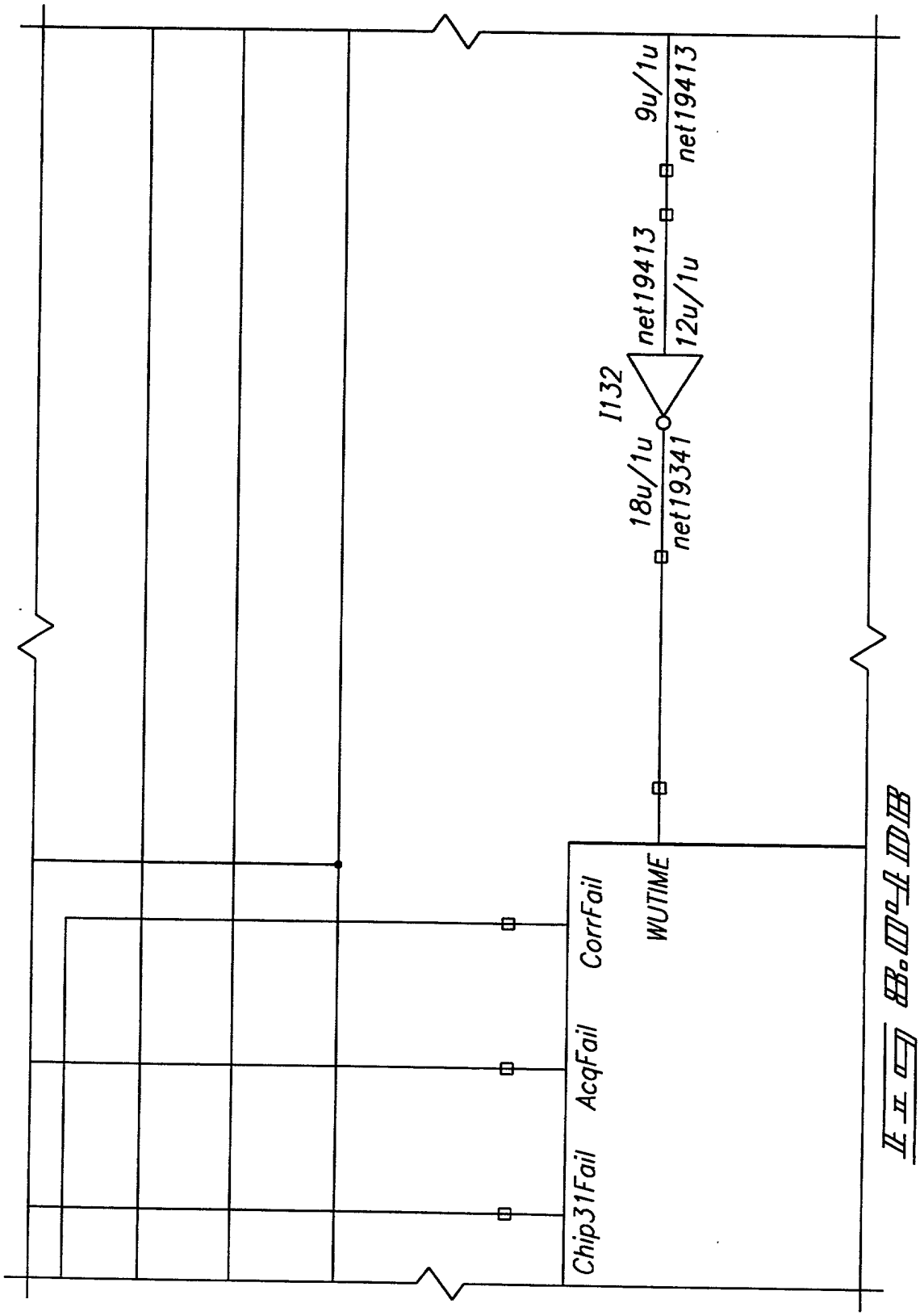
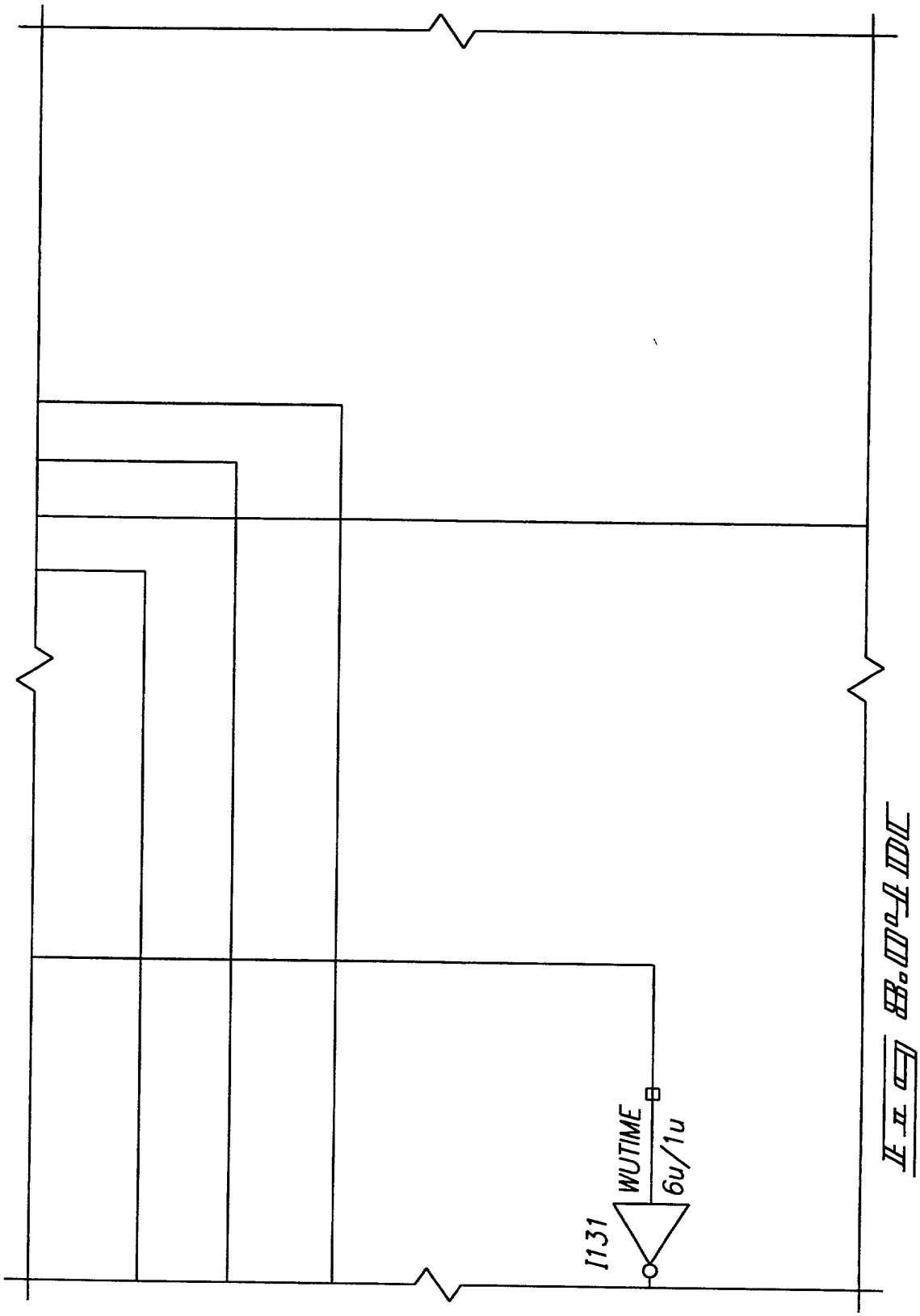

Chip31Fail
AcqFail
CorrFail
WUTIME
I132
18u/1u
net19341
net19413
12u/1u
net19413
9u/1u

Fig. 8.04 DB

1410/3273



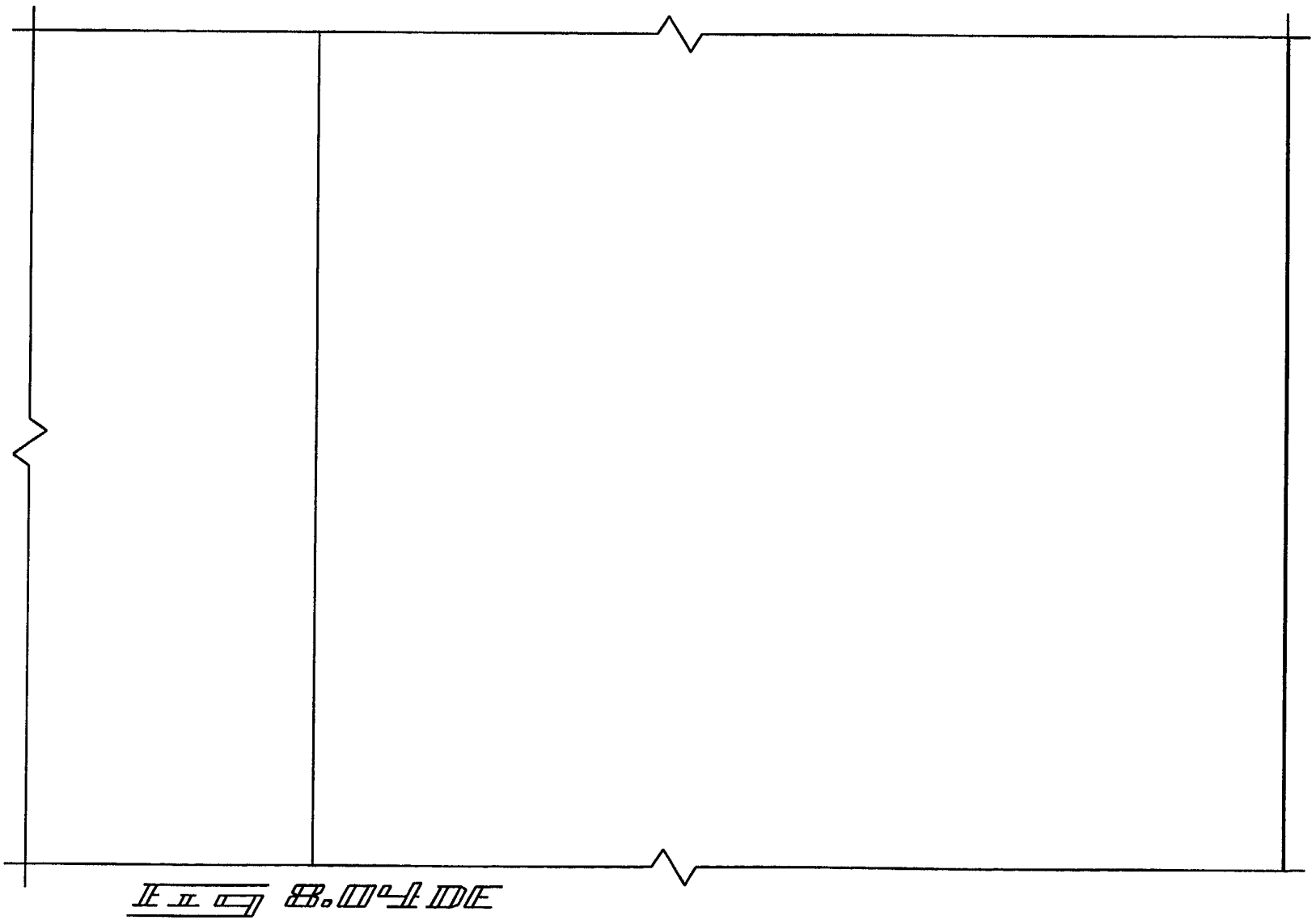
US6222895 - 05-24-2001

TOTTOD"E90228bO

Note: could use pnlock if pnlockdet were enabled by SDD. Then check freqlock after message is received to ensure good transmit clock.

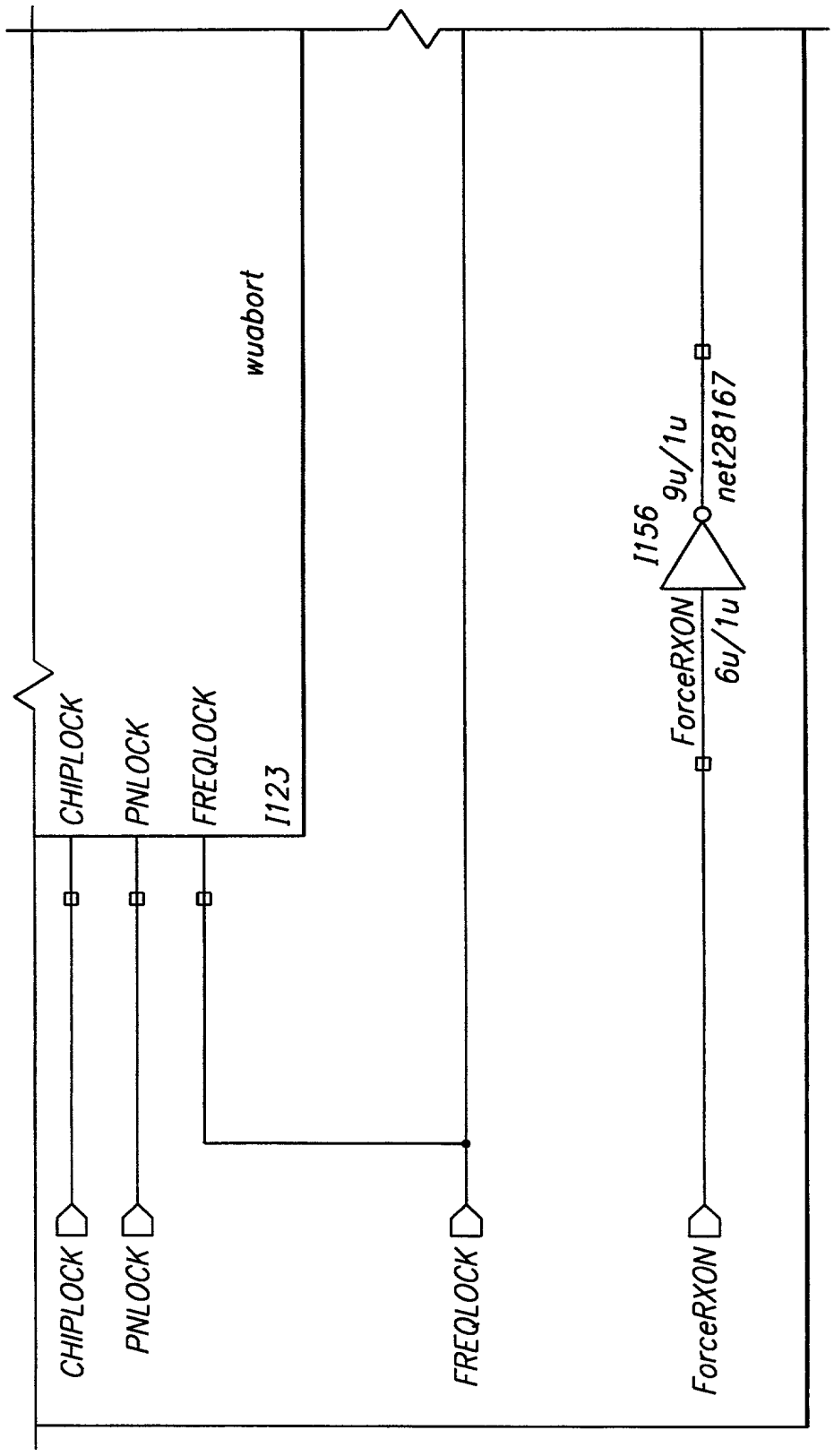
Fig 8.04DD

DOCID: 0002286



1412/3273

Fig 8.04DE


CHIPLOCK
PNLOCK
FREQLOCK
I123
wuabort
I156
9u/1u
net28167
ForceRXON
6u/1u
CHIPLOCK
PNLOCK
FREQLOCK
ForceRXON

Фиг. 8.04EA

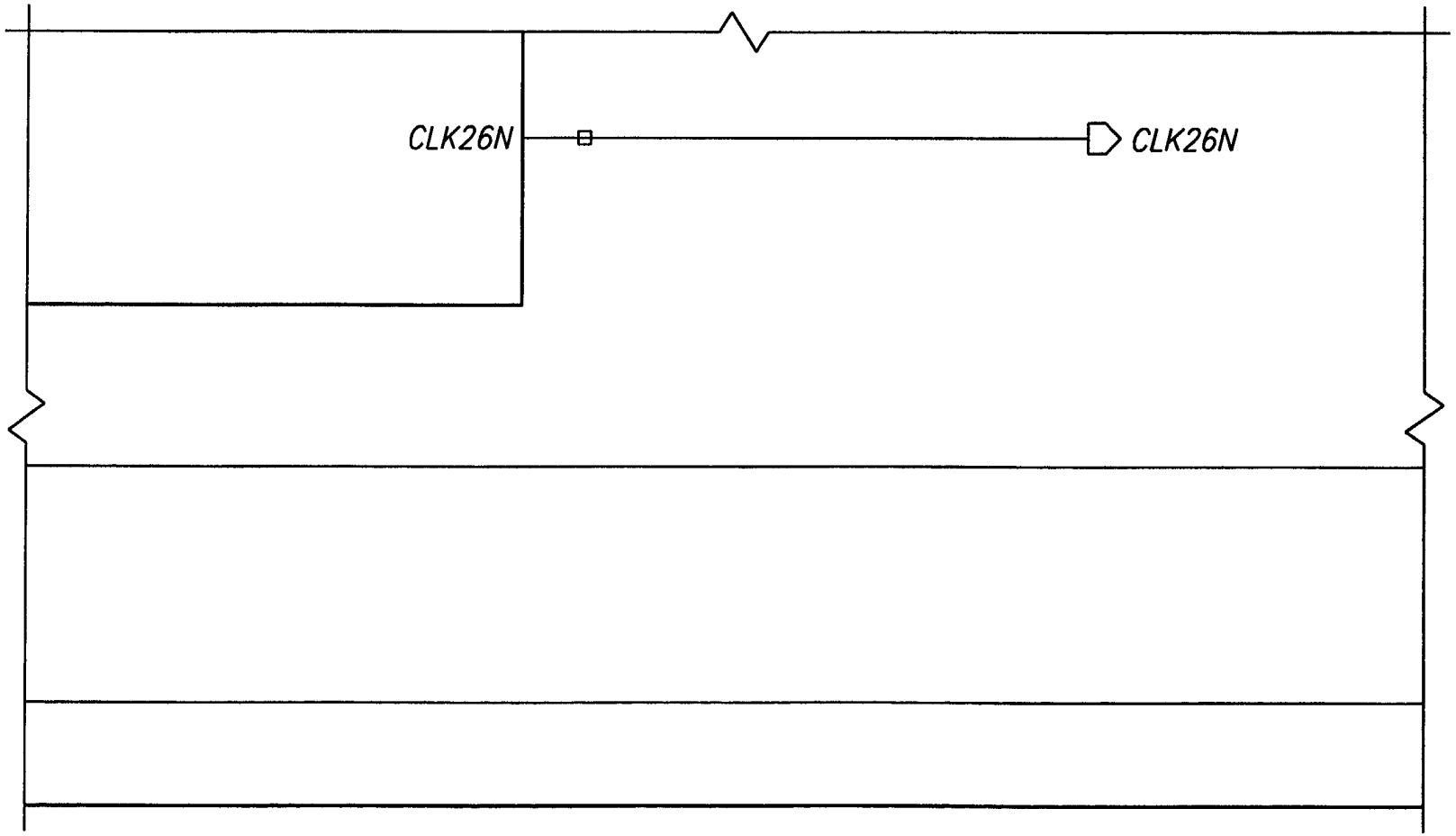
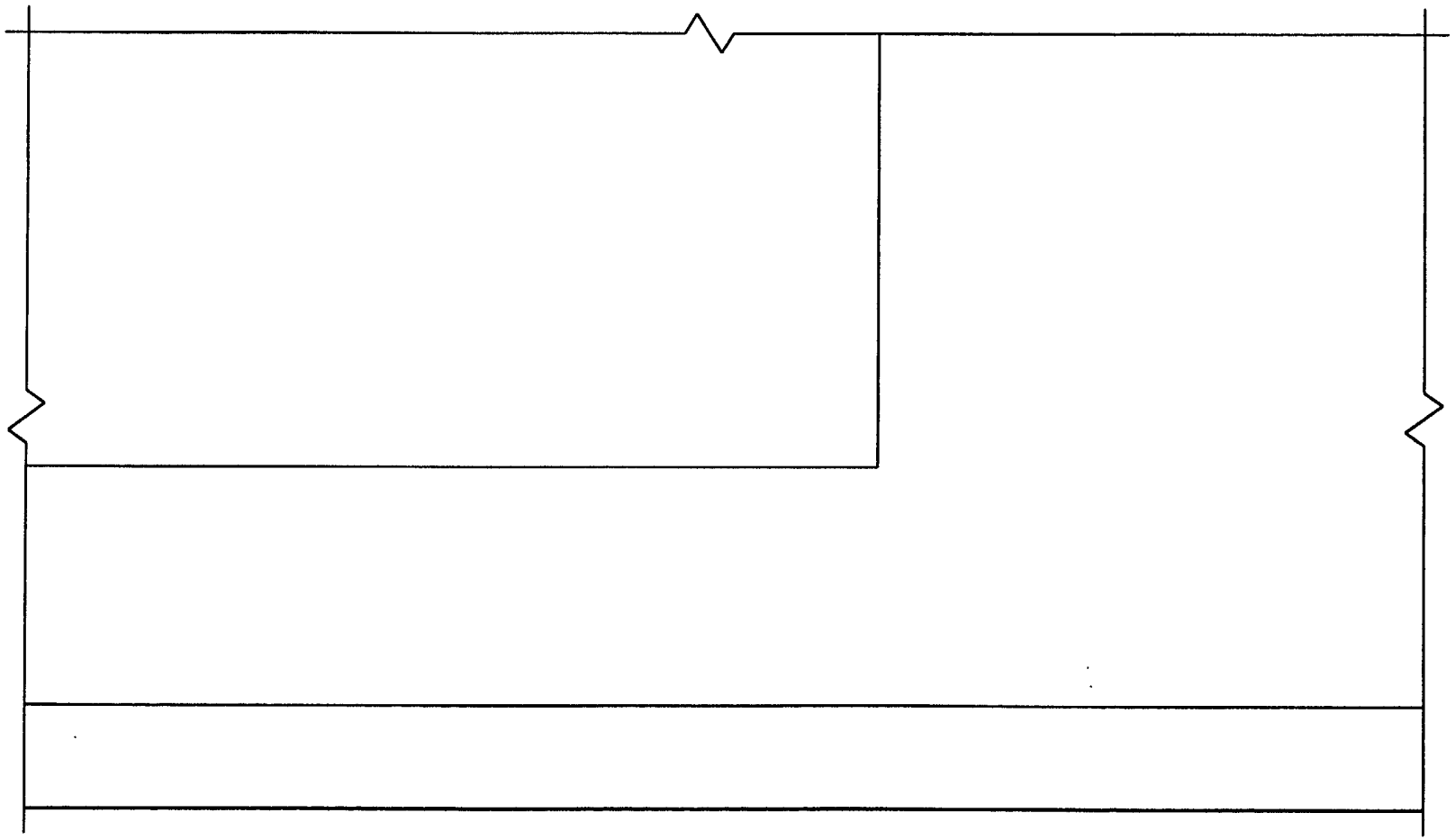


Fig 8.04EB

ГОСТ 2.902-2006



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Ex 8.045EC

1416/3273

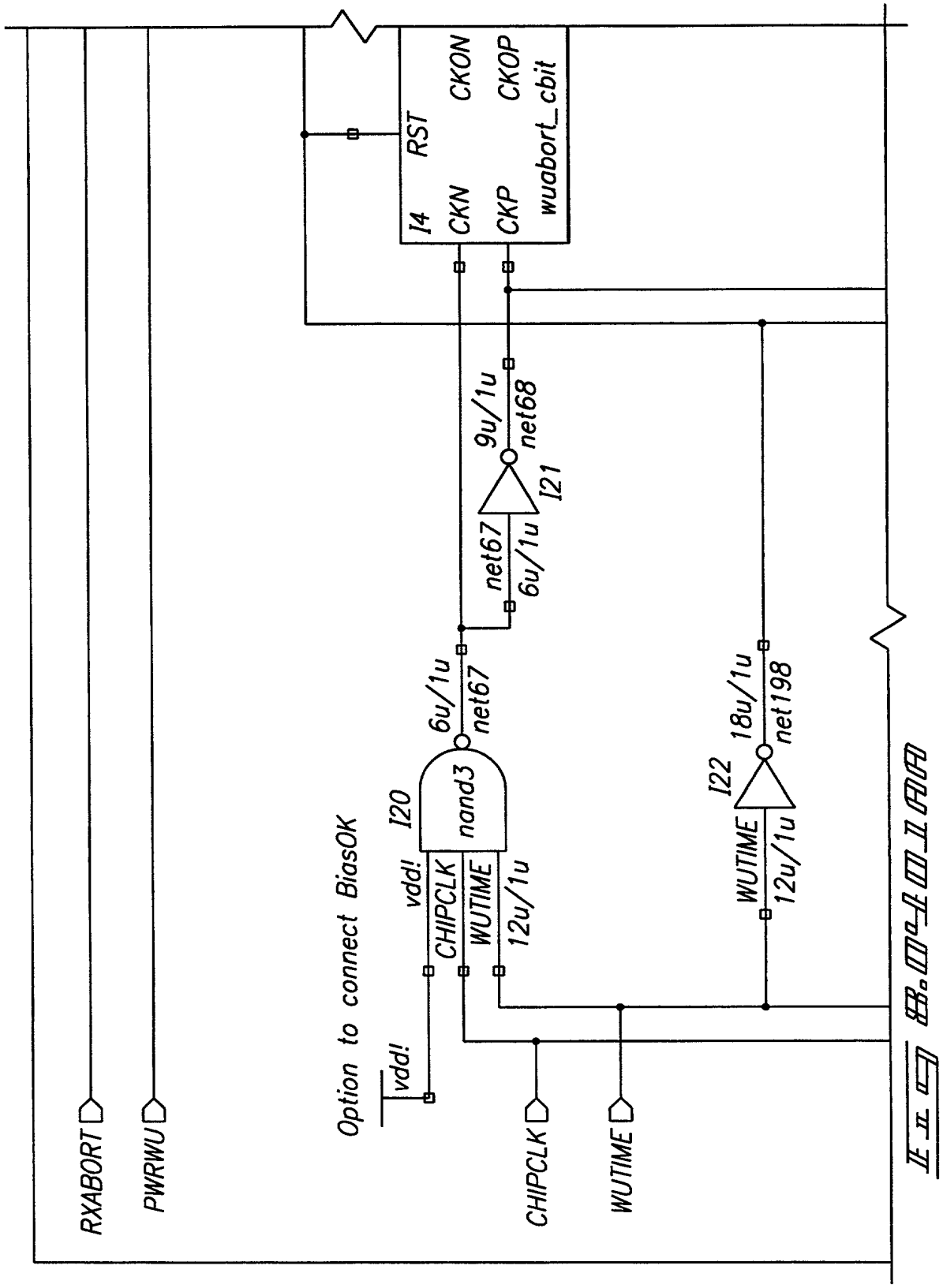
Document: 1416/3273

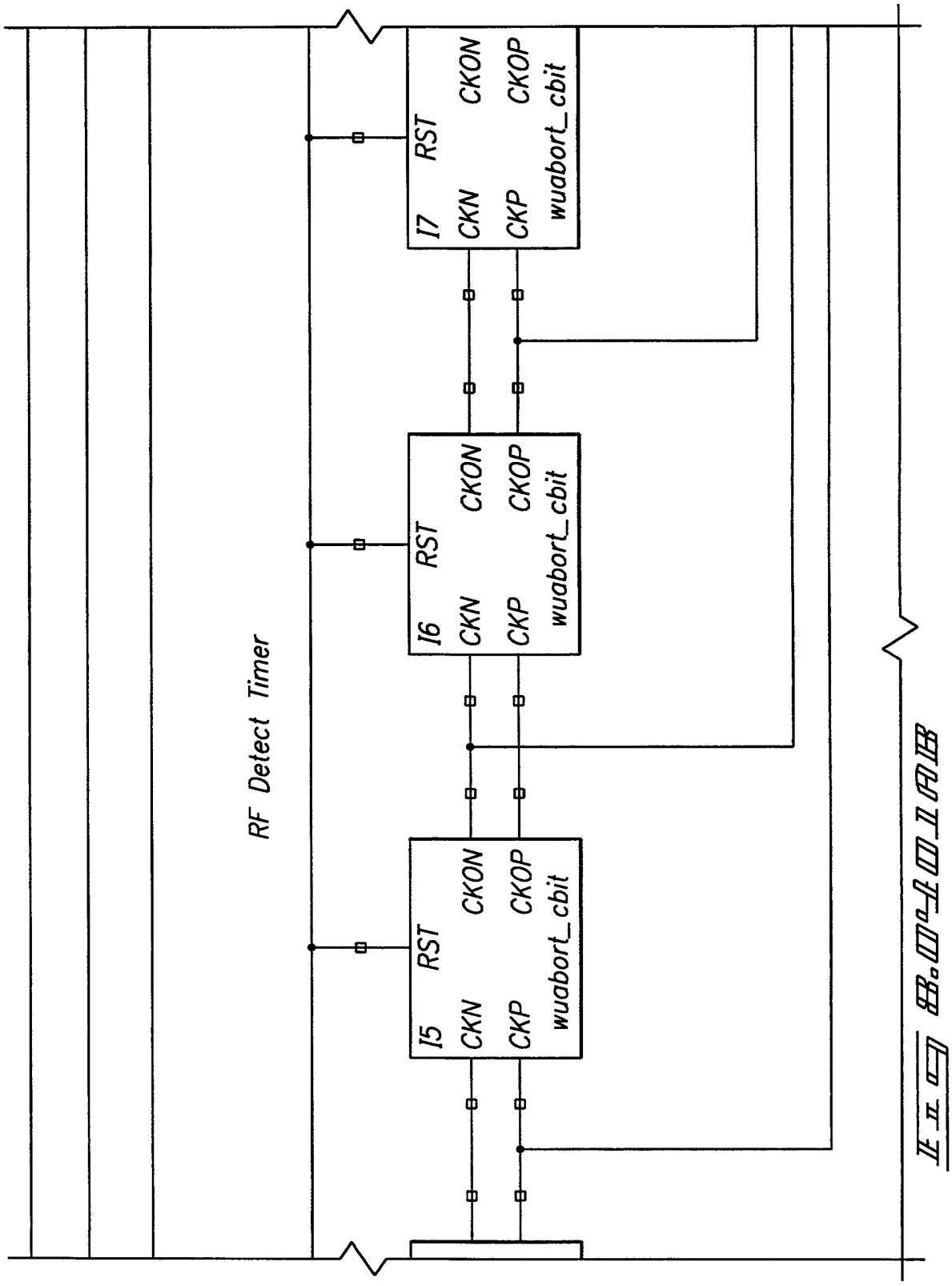
1417/3273

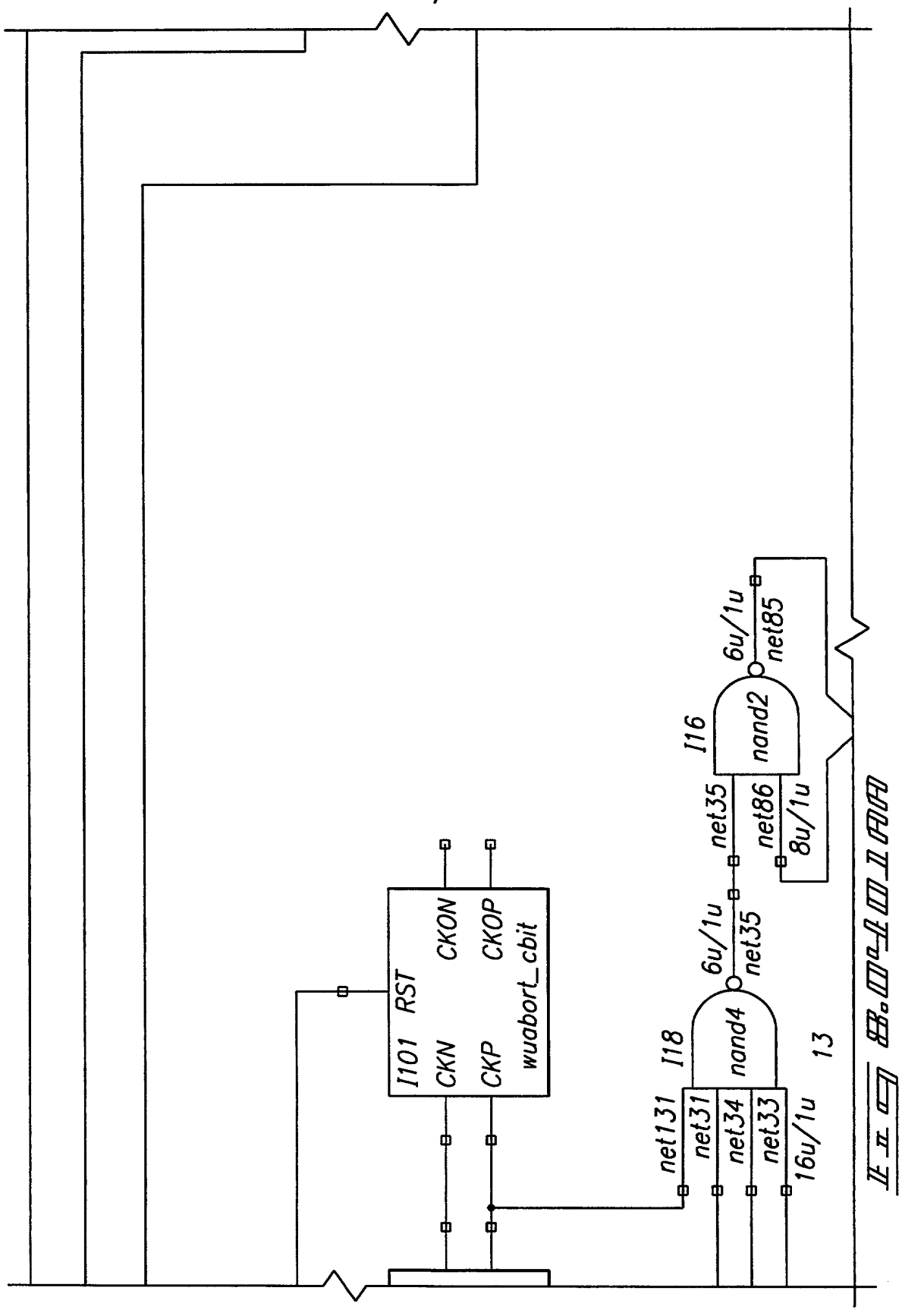
Document: 1417/3273

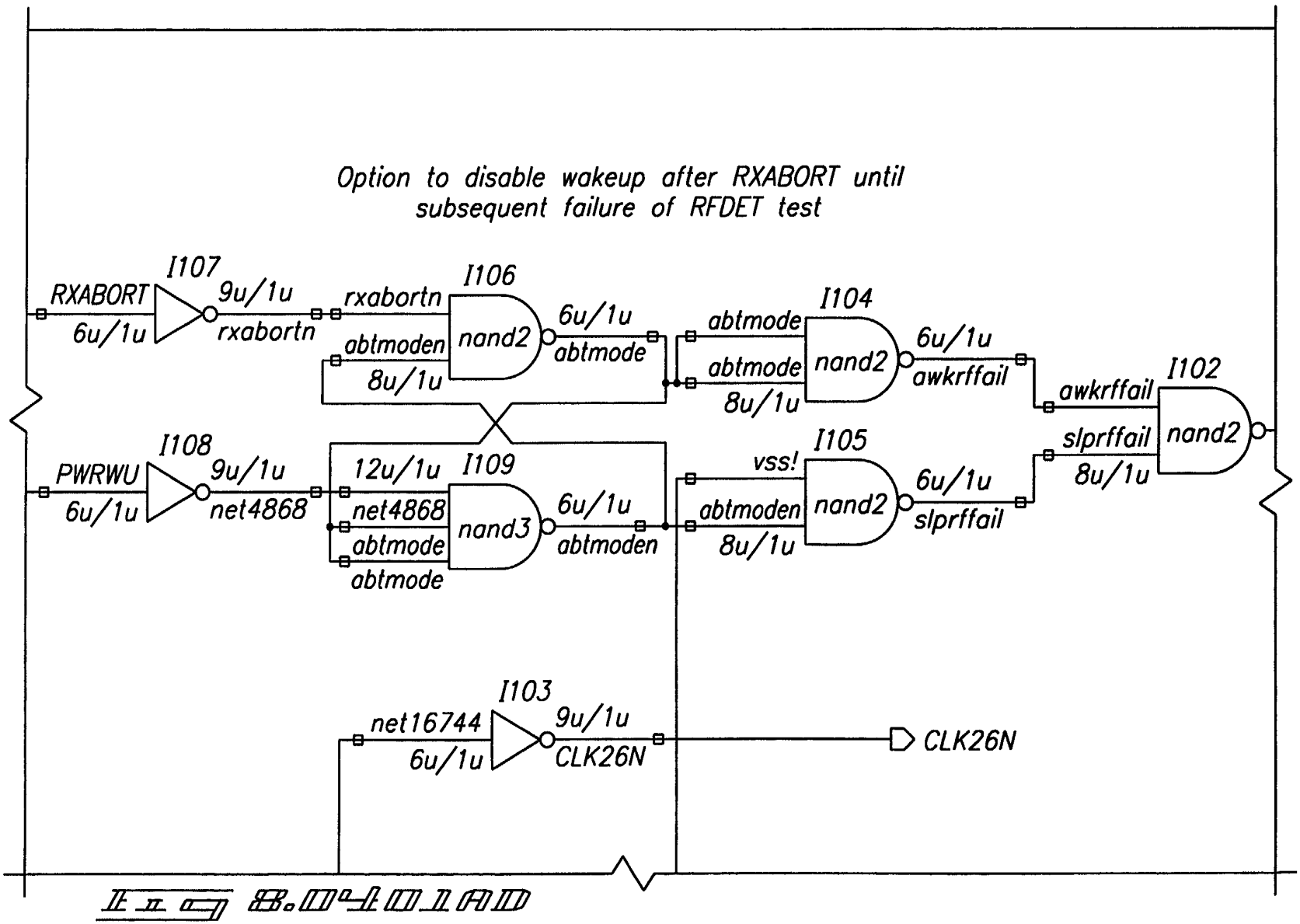
8.0401AA	8.0401AB	8.0401AC	8.0401AD	8.0401AE
8.0401BA	8.0401BB	8.0401BC	8.0401BD	8.0401BE
8.0401CA	8.0401CB	8.0401CC	8.0401CD	8.0401CE
8.0401DA	8.0401DB	8.0401DC	8.0401DD	8.0401DE

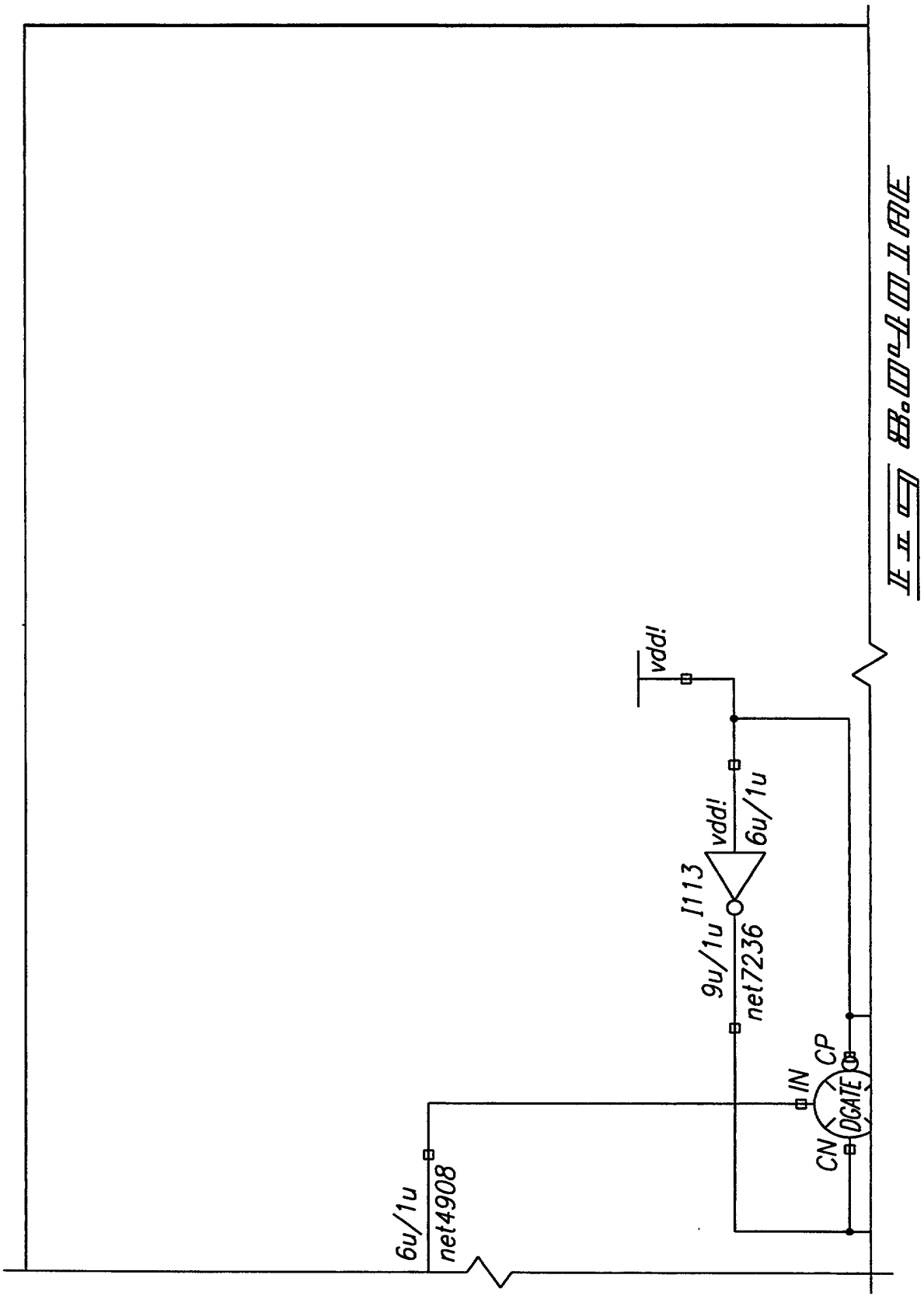
Fig 8.0401


RXABORT
PWRWU
CHIPCLK
WUTIME
Option to connect BiasOK
vdd!
I20
nand3
vdd!
CHIPCLK
WUTIME
6u/1u
net67
12u/1u
net67
6u/1u
9u/1u
net68
I21
I22
18u/1u
net198
WUTIME
12u/1u
I4
RST
CKN
CKP
CKON
CKOP
wuabort_cbit
VDD


RF Detect Timer
I7
RST
CKON
CKOP
CKN
CKP
wuabort_cbit
I6
RST
CKON
CKOP
CKN
CKP
wuabort_cbit
I5
RST
CKON
CKOP
CKN
CKP
wuabort_cbit


I101
RST
CKN
CKP
CKON
CKOP
wuabort_cbit
I118
nand4
6u/1u
net131
net31
net34
net33
16u/1u
net35
I16
nand2
6u/1u
net85
net86
8u/1u
13


Option to disable wakeup after RXABORT until subsequent failure of RFDET test
I107
RXABORT
6u/1u
9u/1u
rxabortn
I106
rxabortn
abtmoden
8u/1u
nand2
6u/1u
abtmode
I104
abtmode
abtmode
8u/1u
nand2
6u/1u
awkrffail
I102
awkrffail
slprffail
8u/1u
nand2
I108
PWRWU
6u/1u
9u/1u
net4868
12u/1u
I109
net4868
abtmode
abtmode
nand3
6u/1u
abtmoden
I105
vss!
abtmoden
8u/1u
nand2
6u/1u
slprffail
I103
net16744
6u/1u
9u/1u
CLK26N
CLK26N
1422/3273


vdd!
I113
9u/1u
vdd!
6u/1u
net7236
IN
CP
CN
DGATE
6u/1u
net4908

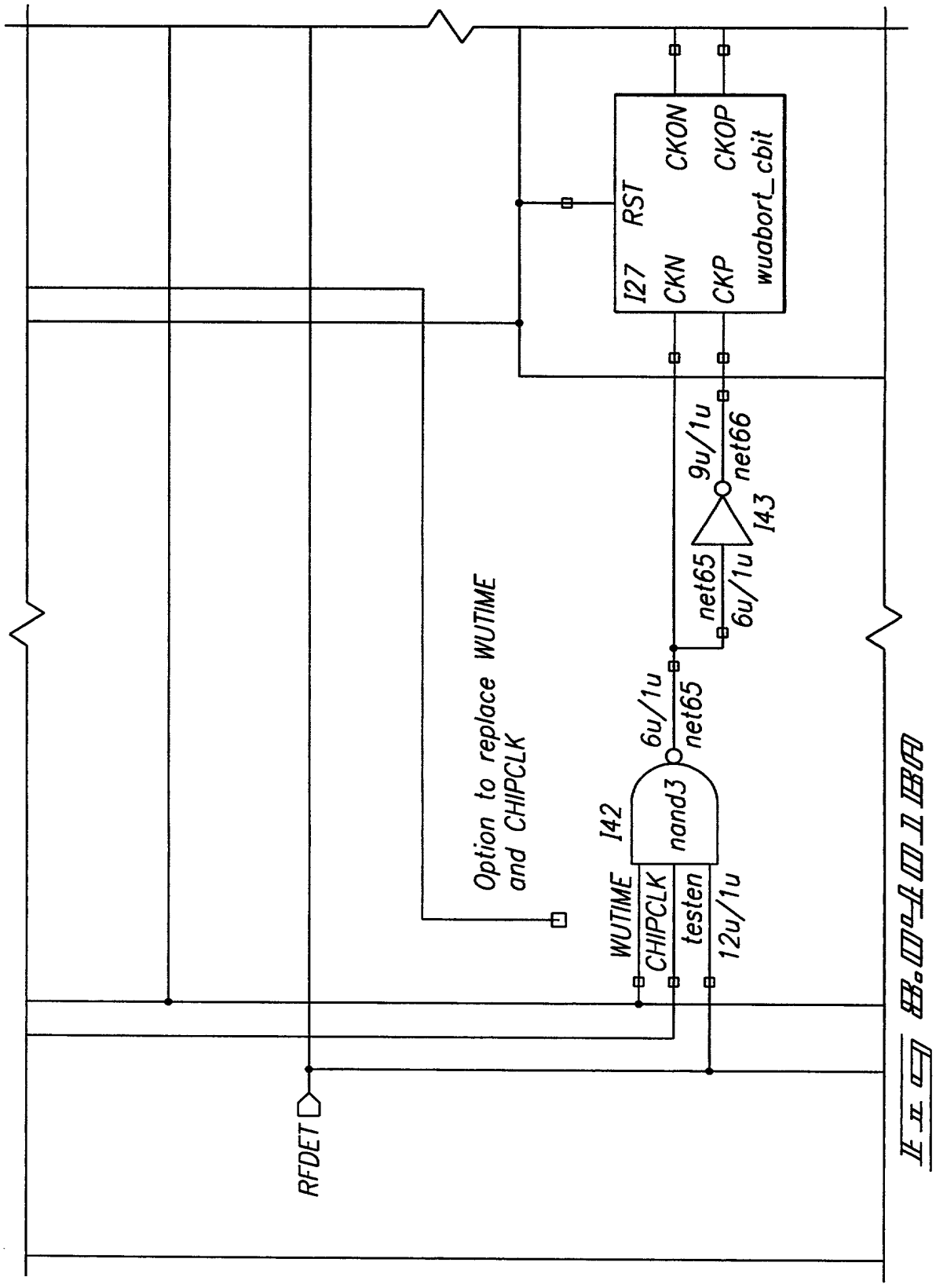
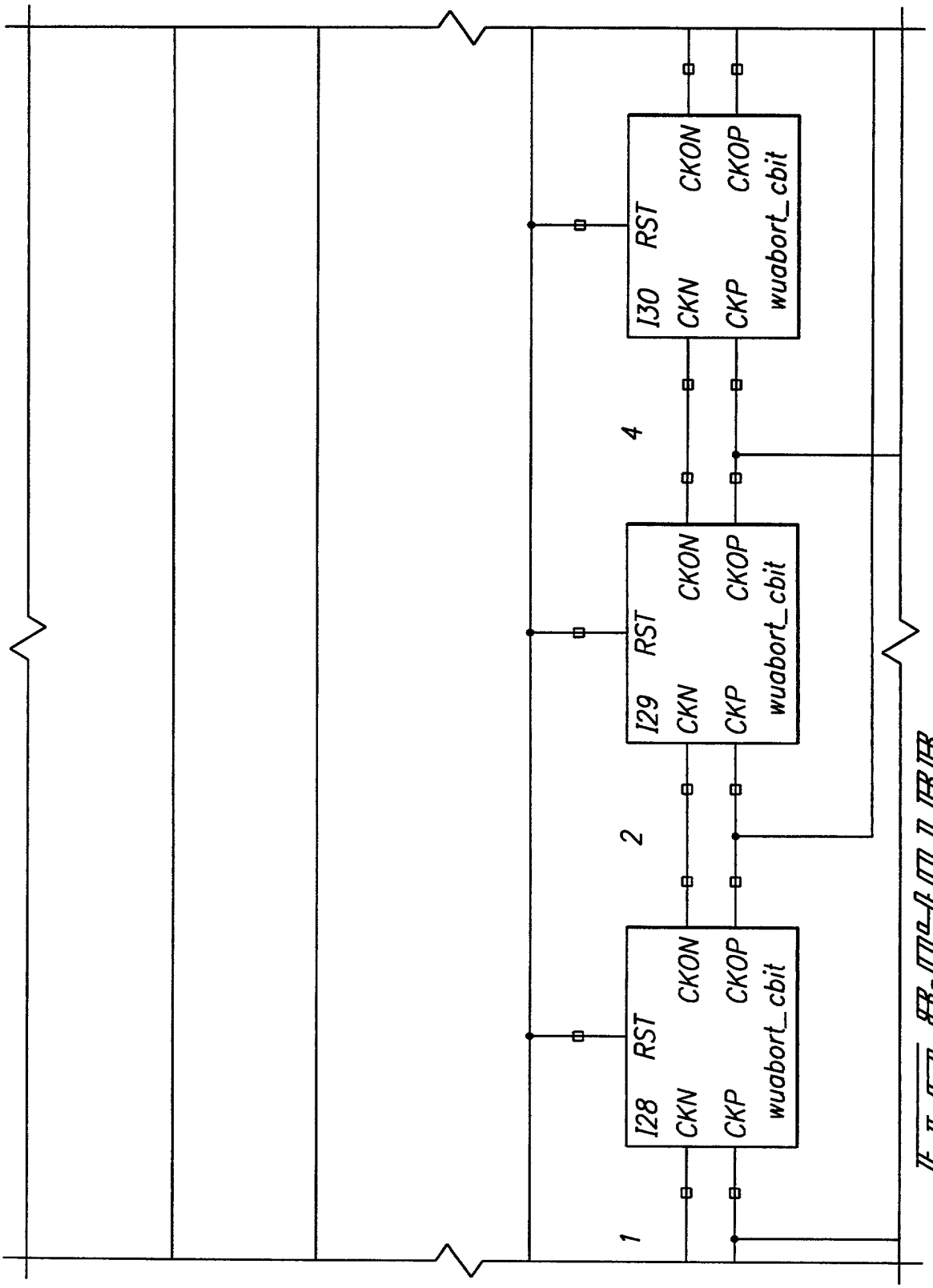


FIG 8.00.11 IBM



Фиг. 8в

EP 1 791 059 A1

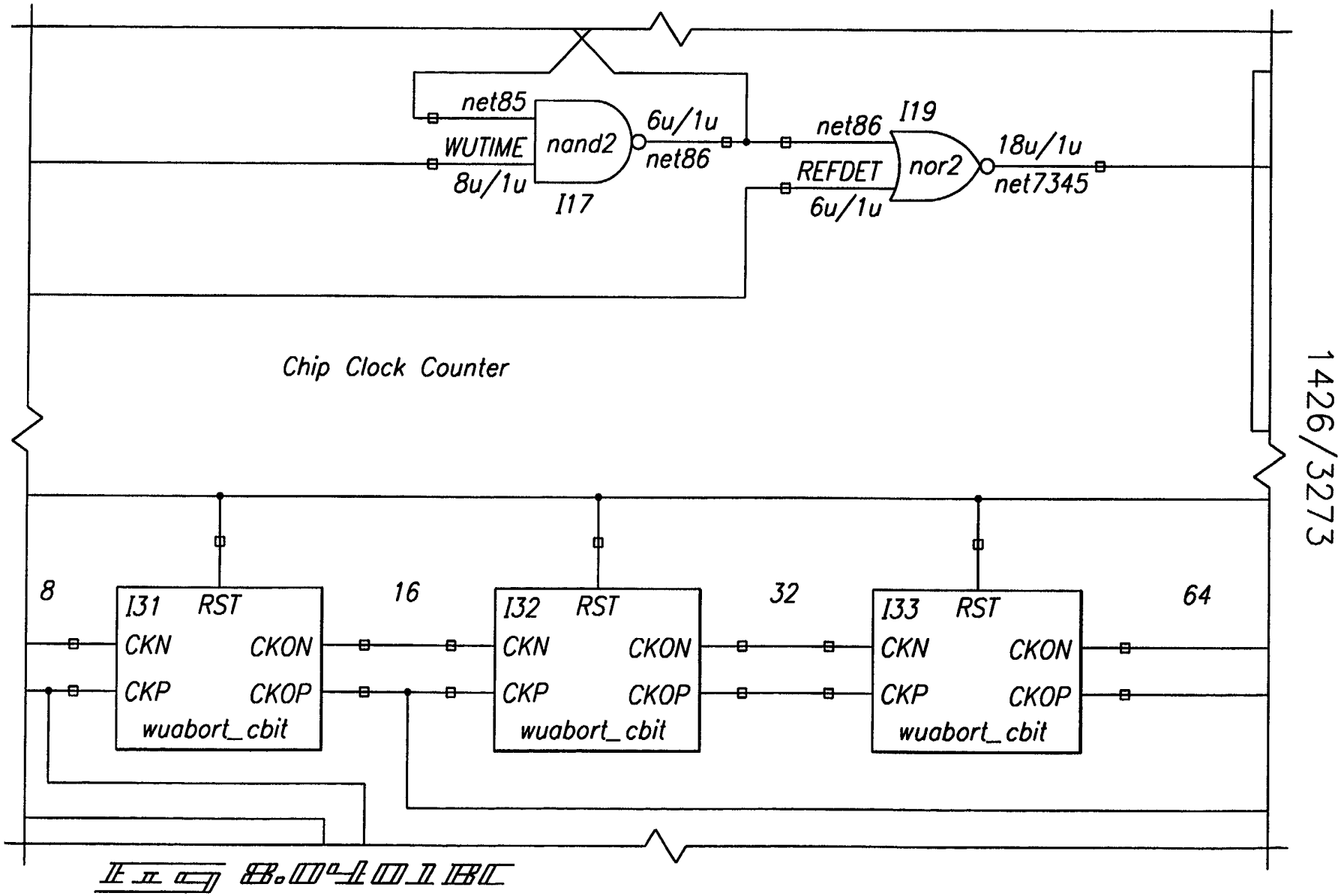


Fig 8.00-1001BC

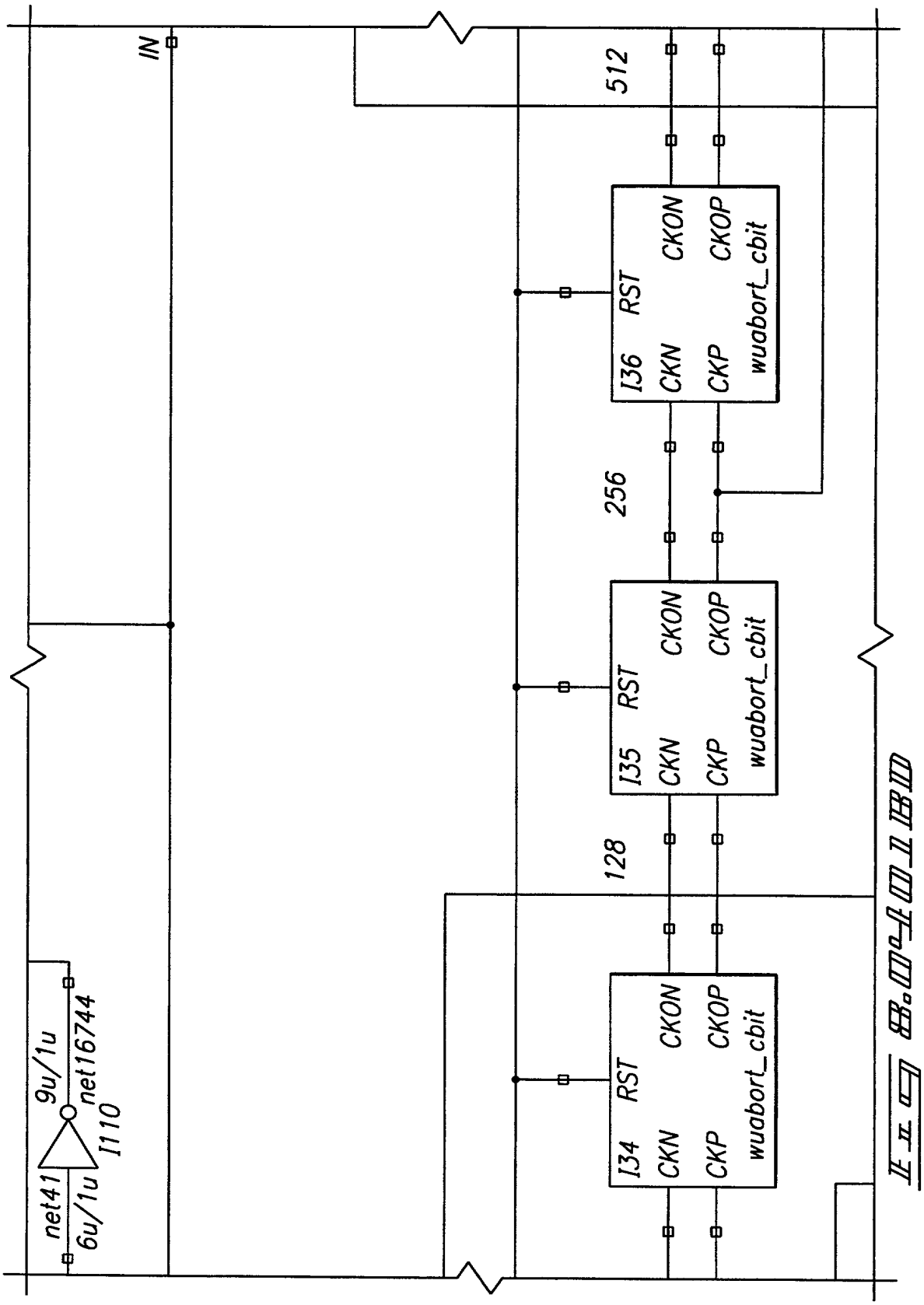
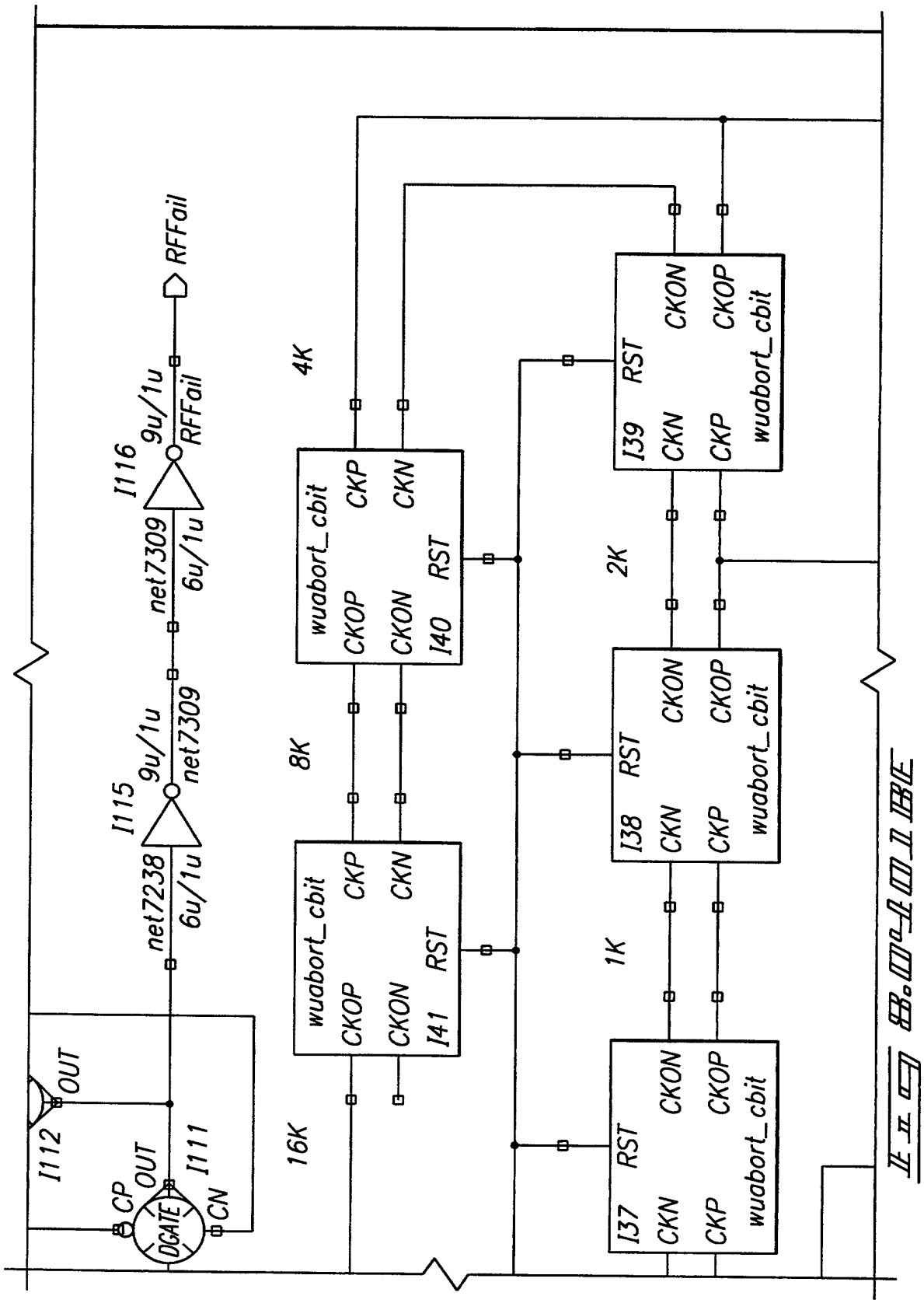
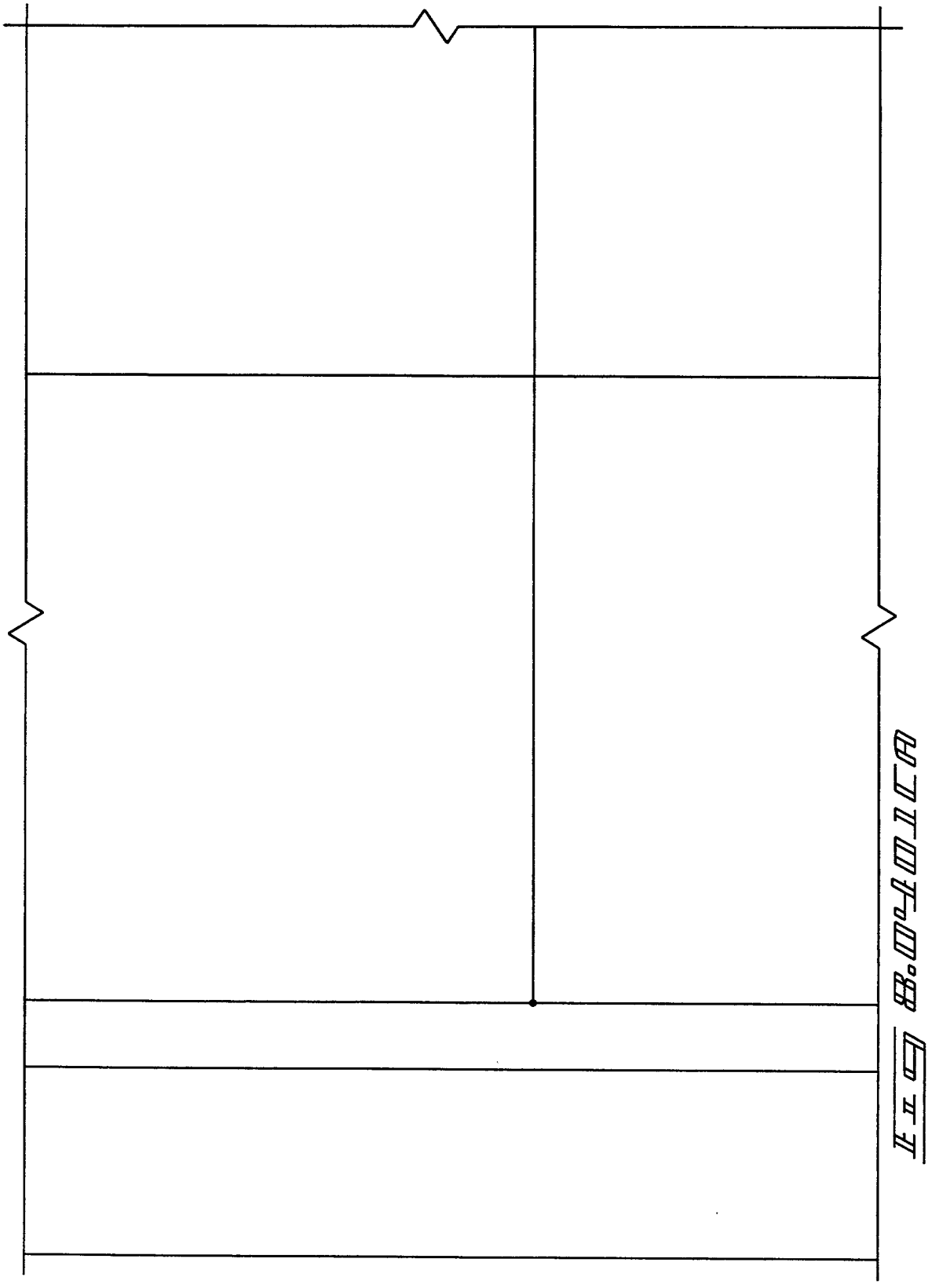

IN
512
256
128
I36
I35
I34
RST
CKN
CKP
CKON
CKOP
wuabort_cbit
9u/1u
6u/1u
net41
net16744
I110

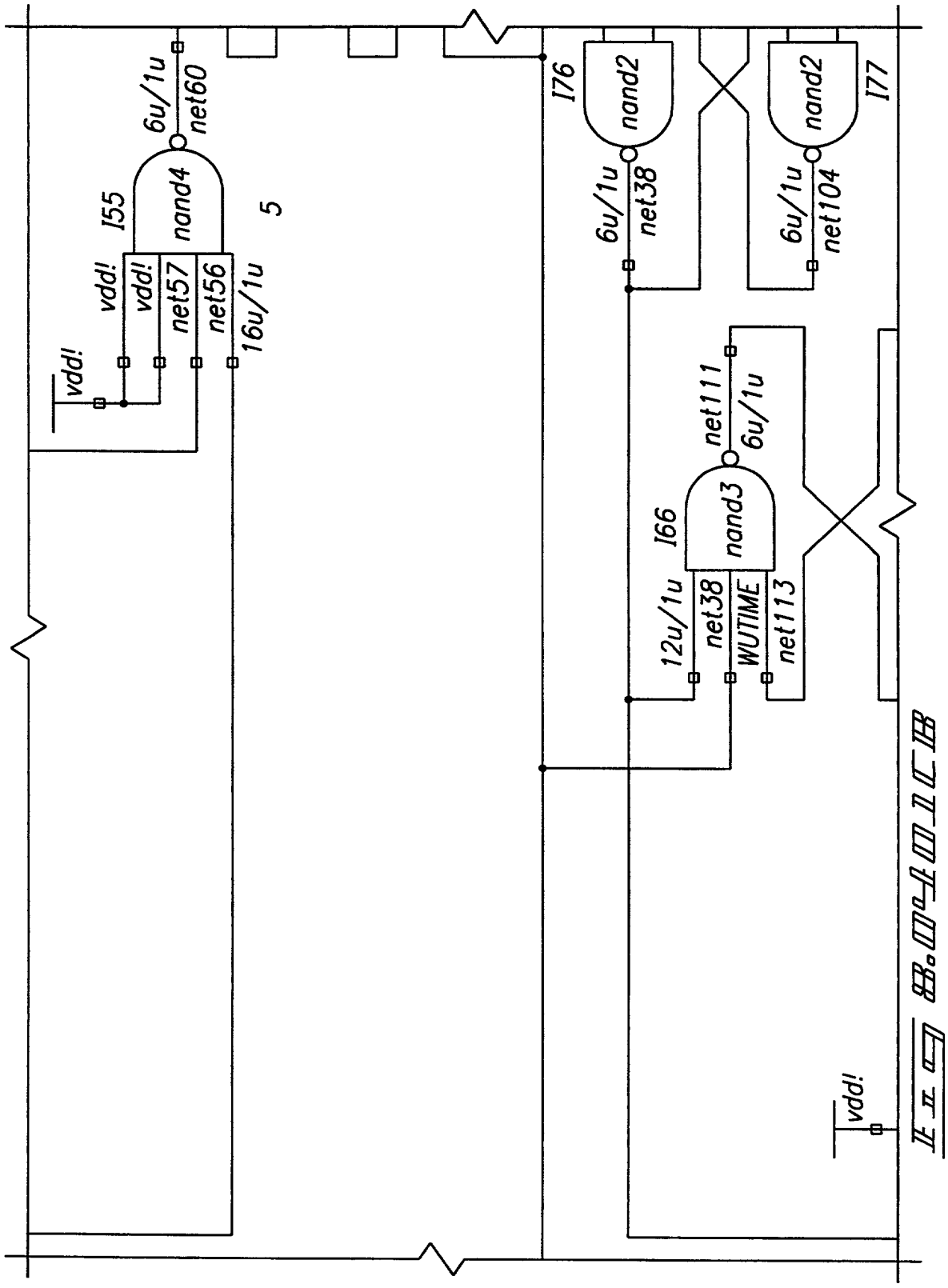
FIG 1100


I112
OUT
I111
CP
OUT
CN
OGATE
I115
9u/1u
net7238
6u/1u
net7309
I116
9u/1u
RFFail
net7309
6u/1u
RFFail
16K
8K
4K
2K
1K
wuabort_cbit
CKOP
CKON
CKP
CKN
RST
I41
I40
I39
I38
I37

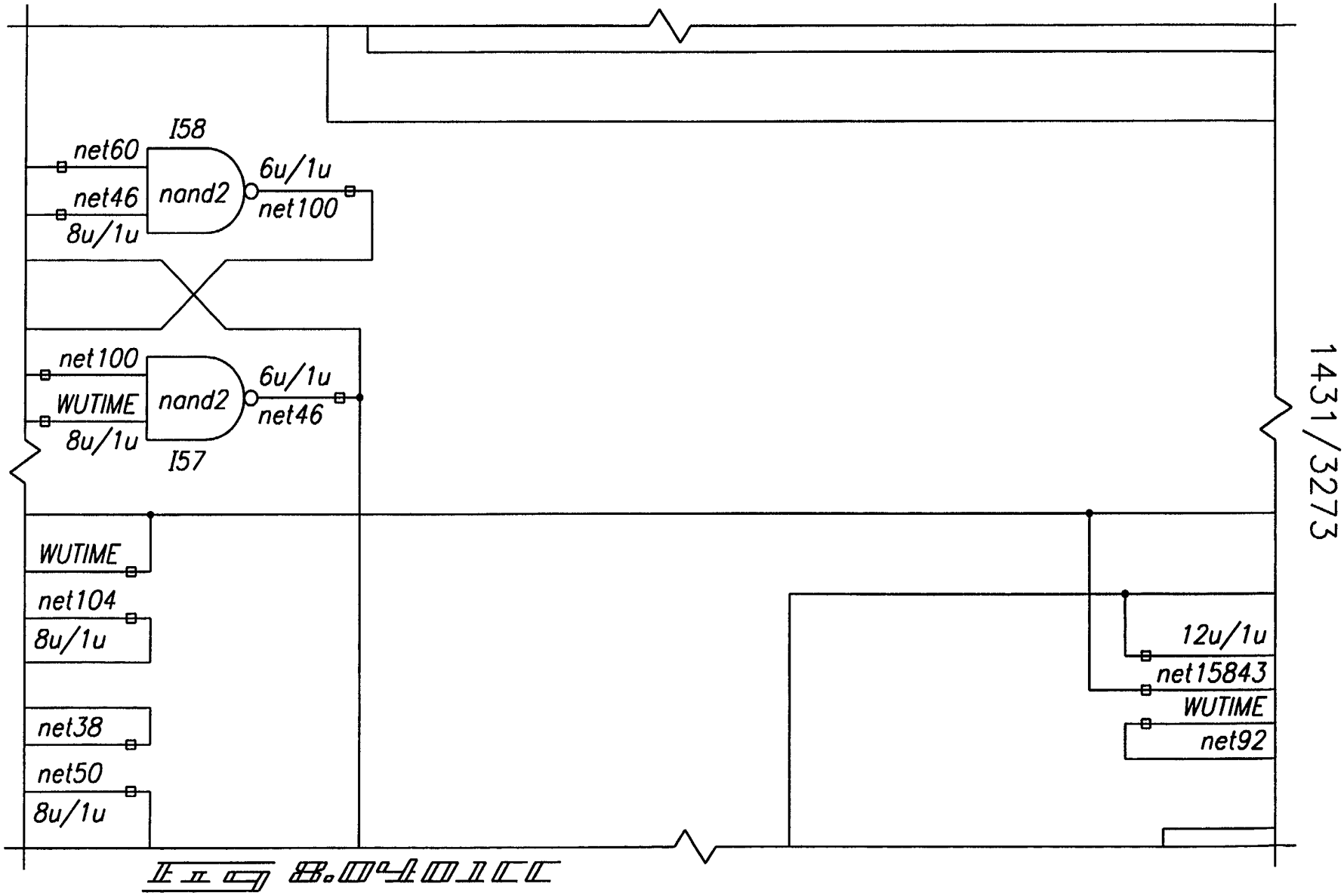
1429/3273

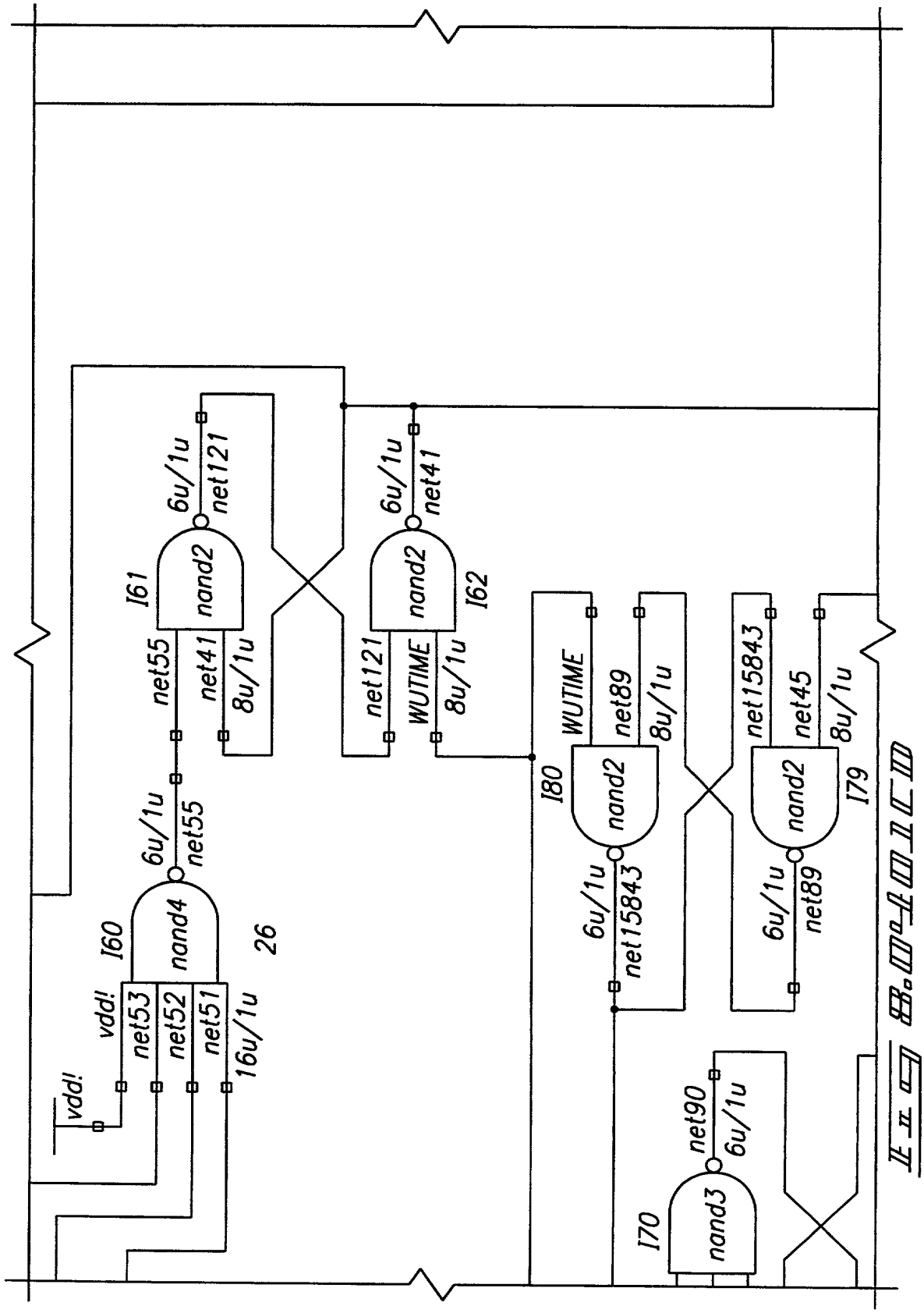


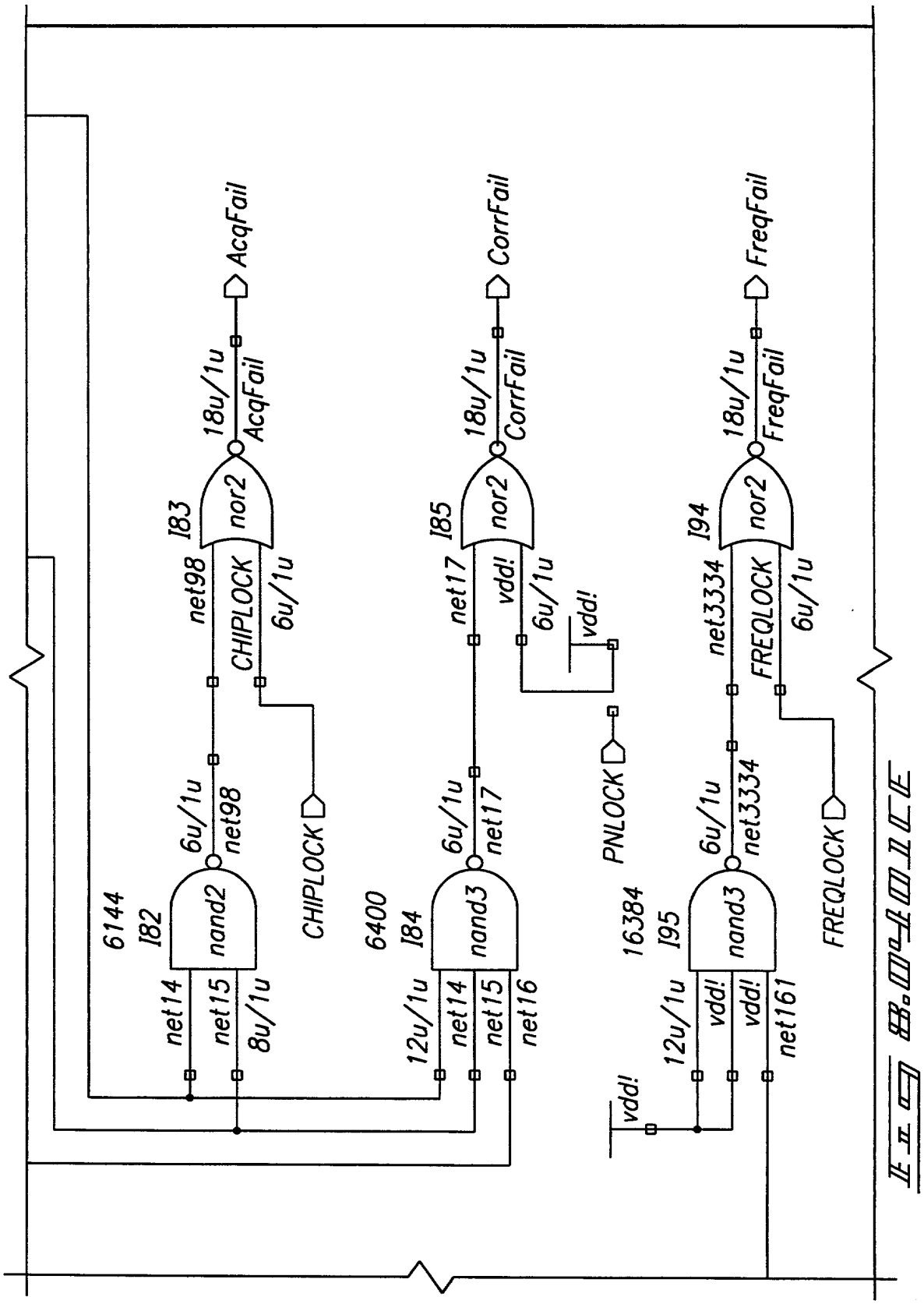
4014959 05/14/2014

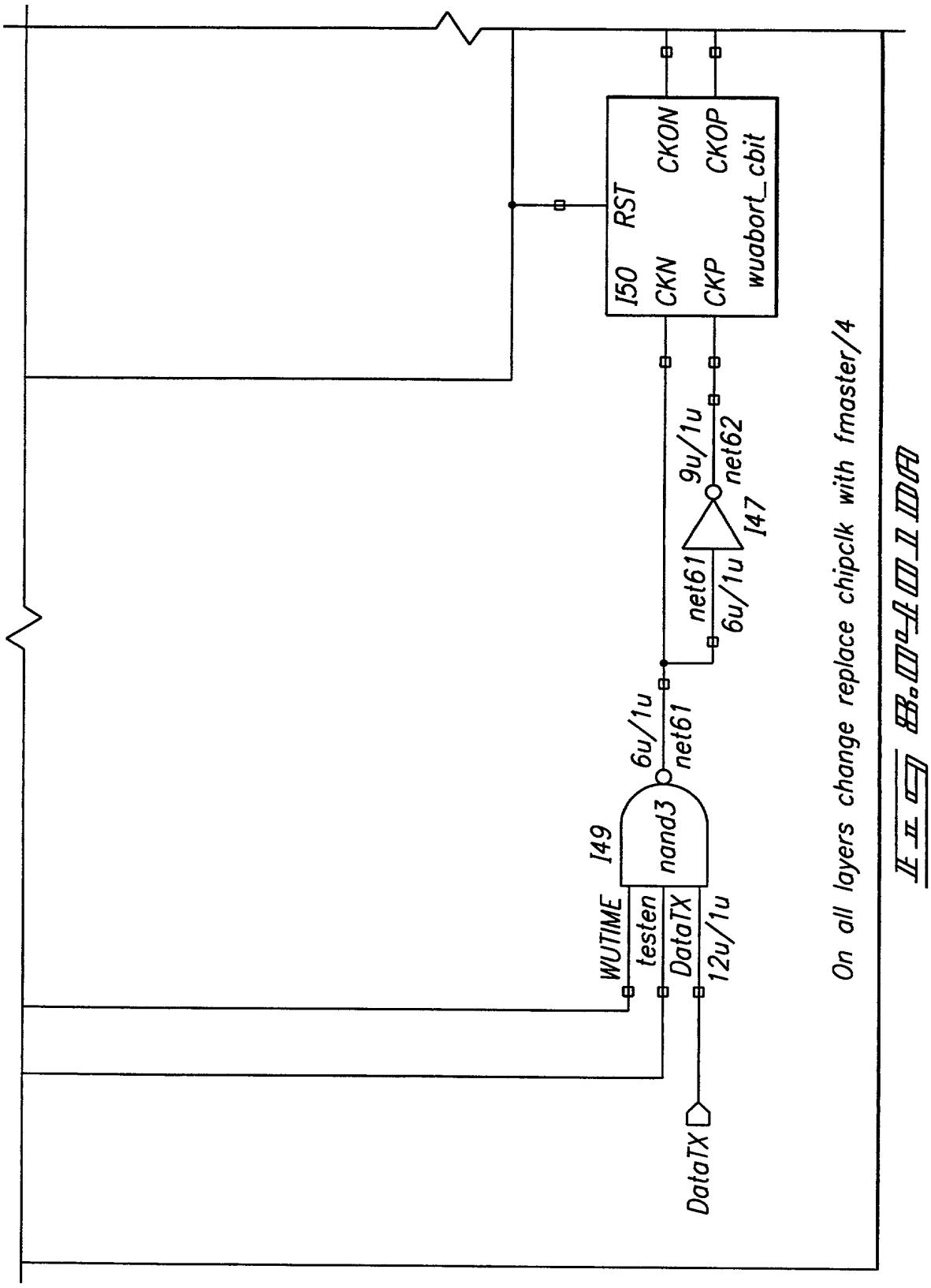

I55
nand4
6u/1u
net60
vdd!
vdd!
net57
net56
16u/1u
5
I76
nand2
6u/1u
net38
I77
nand2
6u/1u
net104
I66
nand3
net111
6u/1u
12u/1u
net38
WUTIME
net113
vdd!

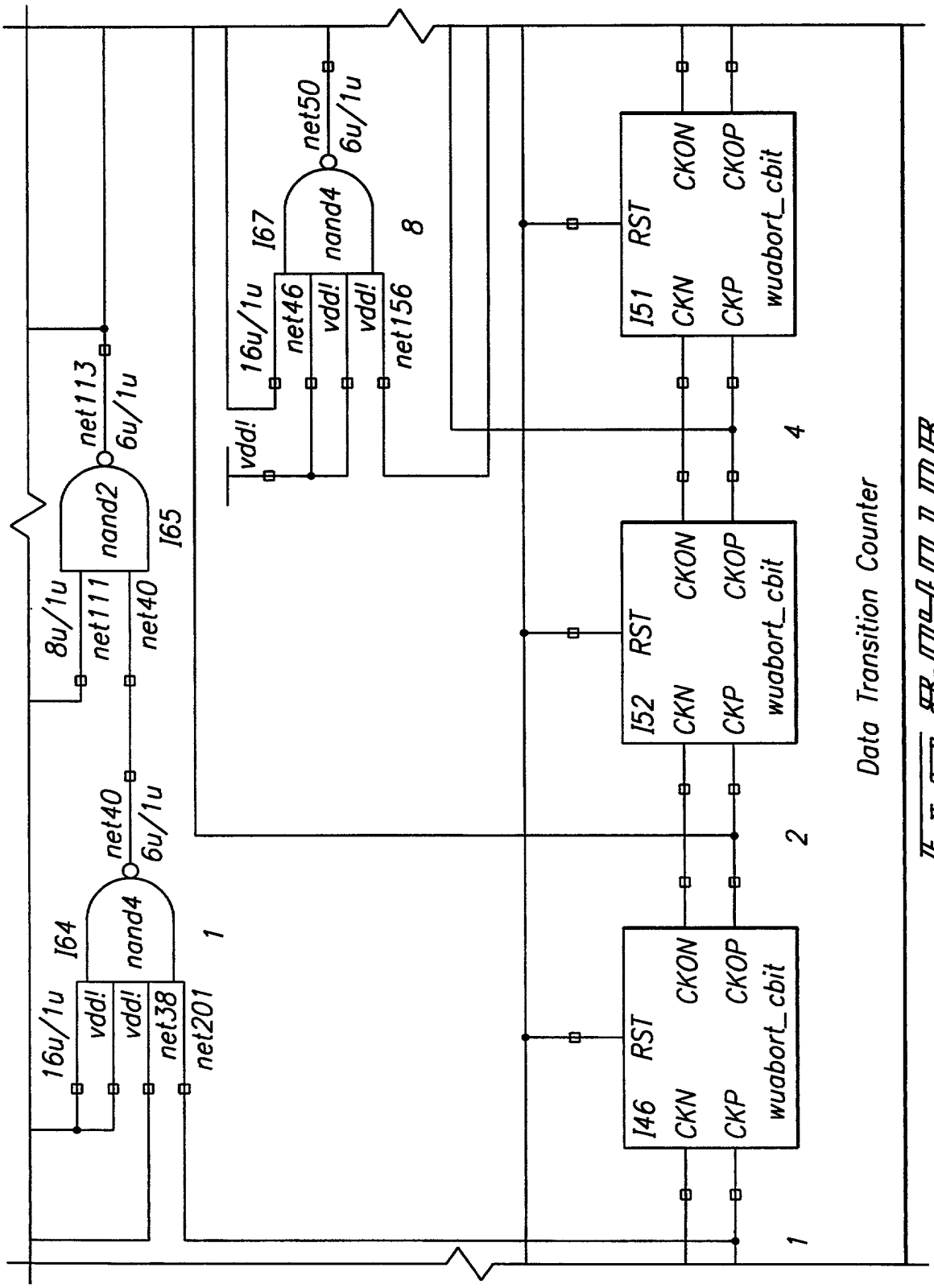
EP0723360

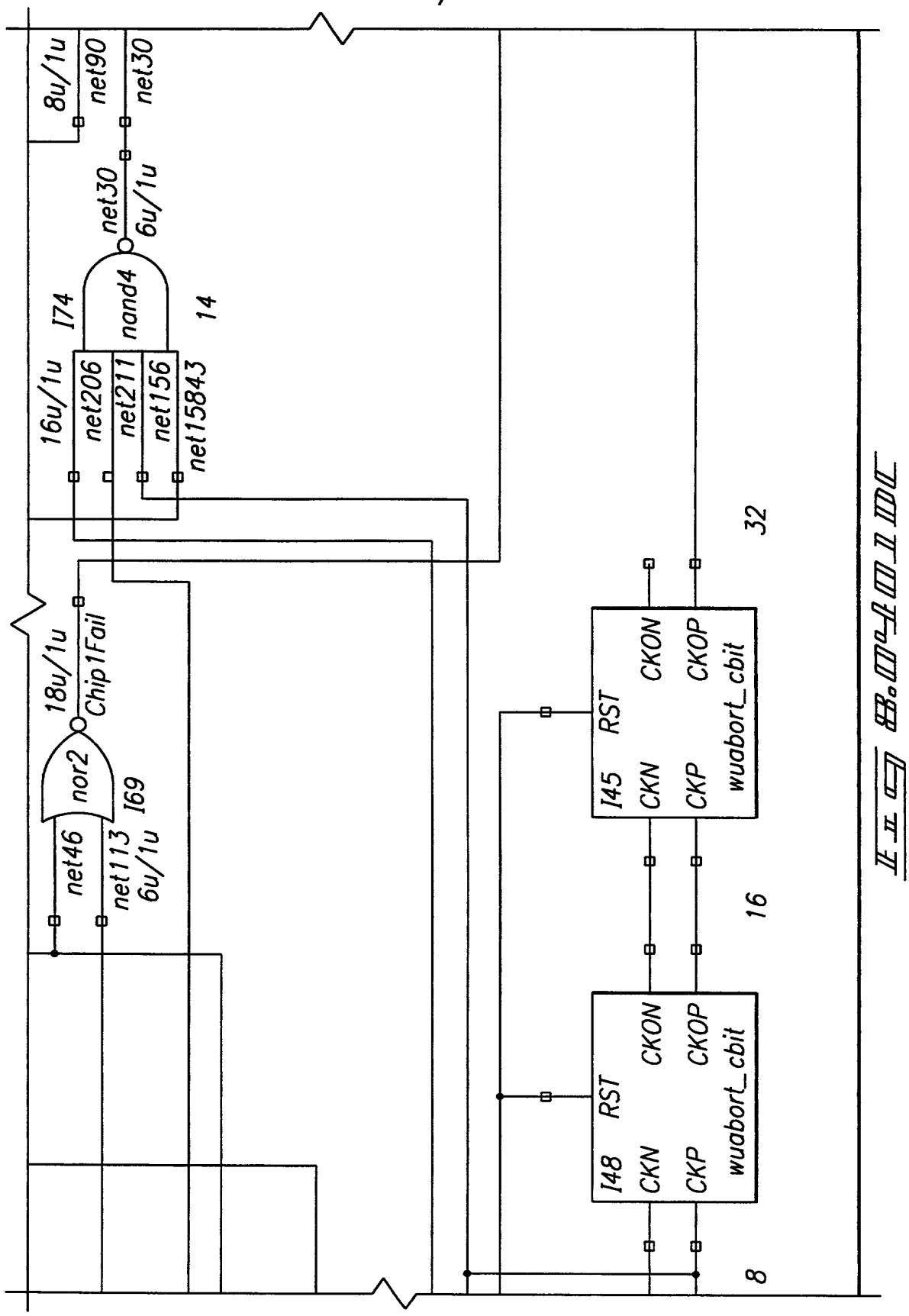

I58
net60
net46
8u/1u
nand2
6u/1u
net100
net100
WUTIME
8u/1u
nand2
6u/1u
net46
I57
WUTIME
net104
8u/1u
net38
net50
8u/1u
12u/1u
net15843
WUTIME
net92
1431/3273


I61
nand2
6u/1u
net121
net55
net41
8u/1u
I62
nand2
6u/1u
net41
net121
WUTIME
8u/1u
I60
nand4
6u/1u
net55
vdd!
net53
net52
net51
16u/1u
vdd!
26
I80
nand2
WUTIME
net89
8u/1u
6u/1u
net15843
I79
nand2
net15843
net45
8u/1u
6u/1u
net89
I70
nand3
net90
6u/1u


6144
I82
nand2
6u/1u
net98
net14
net15
8u/1u
CHIPLOCK
I83
nor2
18u/1u
AcqFail
net98
CHIPLOCK
6u/1u
AcqFail
6400
I84
nand3
6u/1u
net17
12u/1u
net14
net15
net16
I85
nor2
18u/1u
CorrFail
net17
vdd!
6u/1u
CorrFail
vdd!
PNLOCK
16384
I95
nand3
6u/1u
net3334
12u/1u
vdd!
vdd!
net161
I94
nor2
18u/1u
FreqFail
net3334
FREQLOCK
6u/1u
FreqFail
FREQLOCK


wuabort_cbit
I50
RST
CKON
CKOP
CKN
CKP
9u/1u
net62
I47
net61
6u/1u
6u/1u
net61
I49
nand3
WUTIME
testen
DataTX
12u/1u
DataTX
On all layers change replace chipclk with fmaster/4


Data Transition Counter
I46 RST CKON CKOP
CKN CKP wuabort_cbit
I52 RST CKON CKOP
CKN CKP wuabort_cbit
I51 RST CKON CKOP
CKN CKP wuabort_cbit
1
2
4
8
I64 nand4 net40 6u/1u
16u/1u vdd! vdd! net38 net201
1
I65 nand2 net113 6u/1u
8u/1u net111 net40
I67 nand4 net50 6u/1u
16u/1u net46 vdd! vdd! net156
vdd!


8u/1u
net90
net30
net30
6u/1u
I74
nand4
14
16u/1u
net206
net211
net156
net15843
18u/1u
Chip1Fail
nor2
I69
net46
net113
6u/1u
I45
RST
CKN
CKP
CKON
CKOP
wuabort_cbit
32
16
I48
RST
CKN
CKP
CKON
CKOP
wuabort_cbit
8

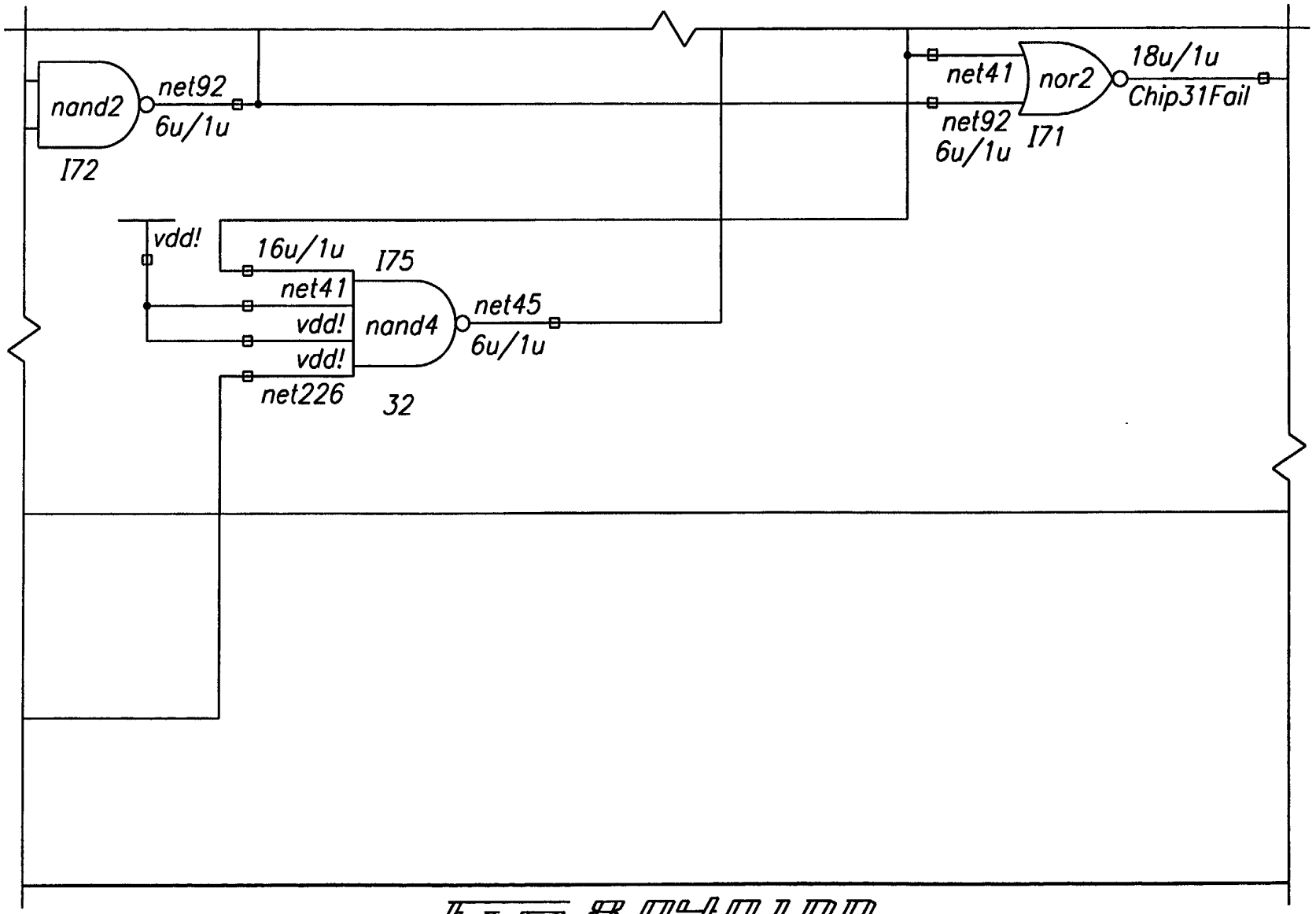
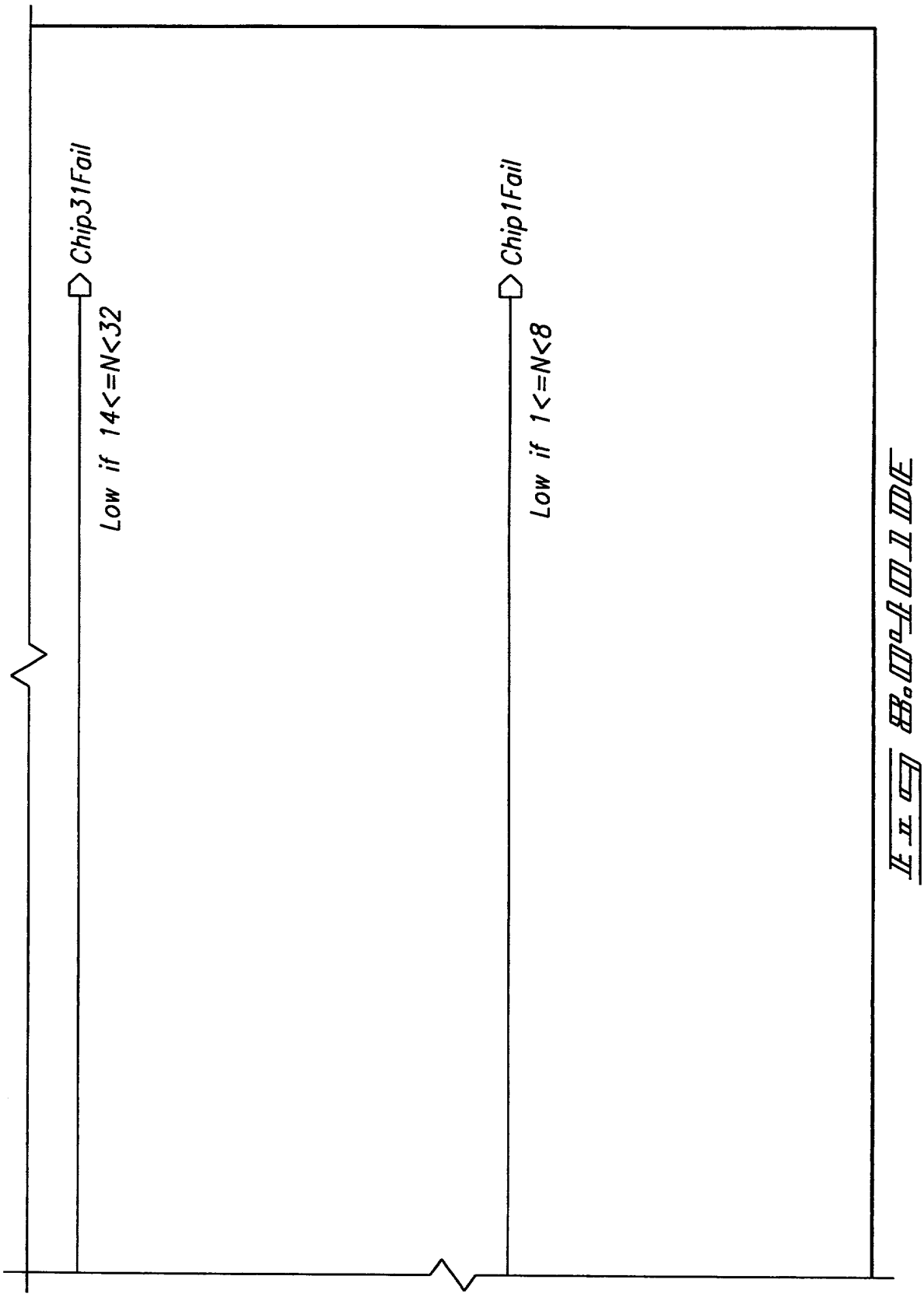

nand2
net92
6u/1u
I72
net41
nor2
18u/1u
Chip31Fail
net92
6u/1u
I71
vdd!
16u/1u
I75
net41
vdd!
vdd!
net226
nand4
net45
6u/1u
32
1437/3273

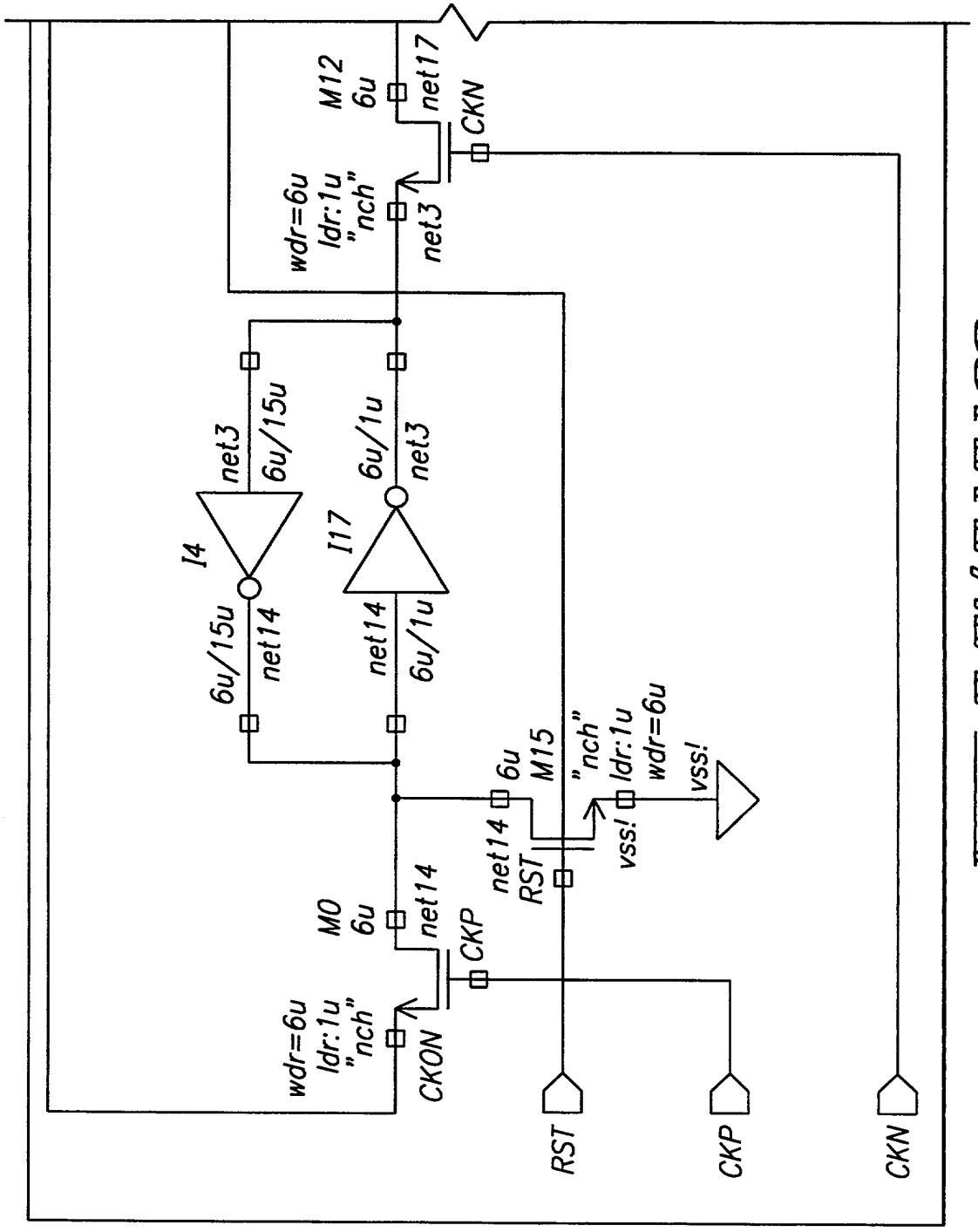
Fig 8.04010D



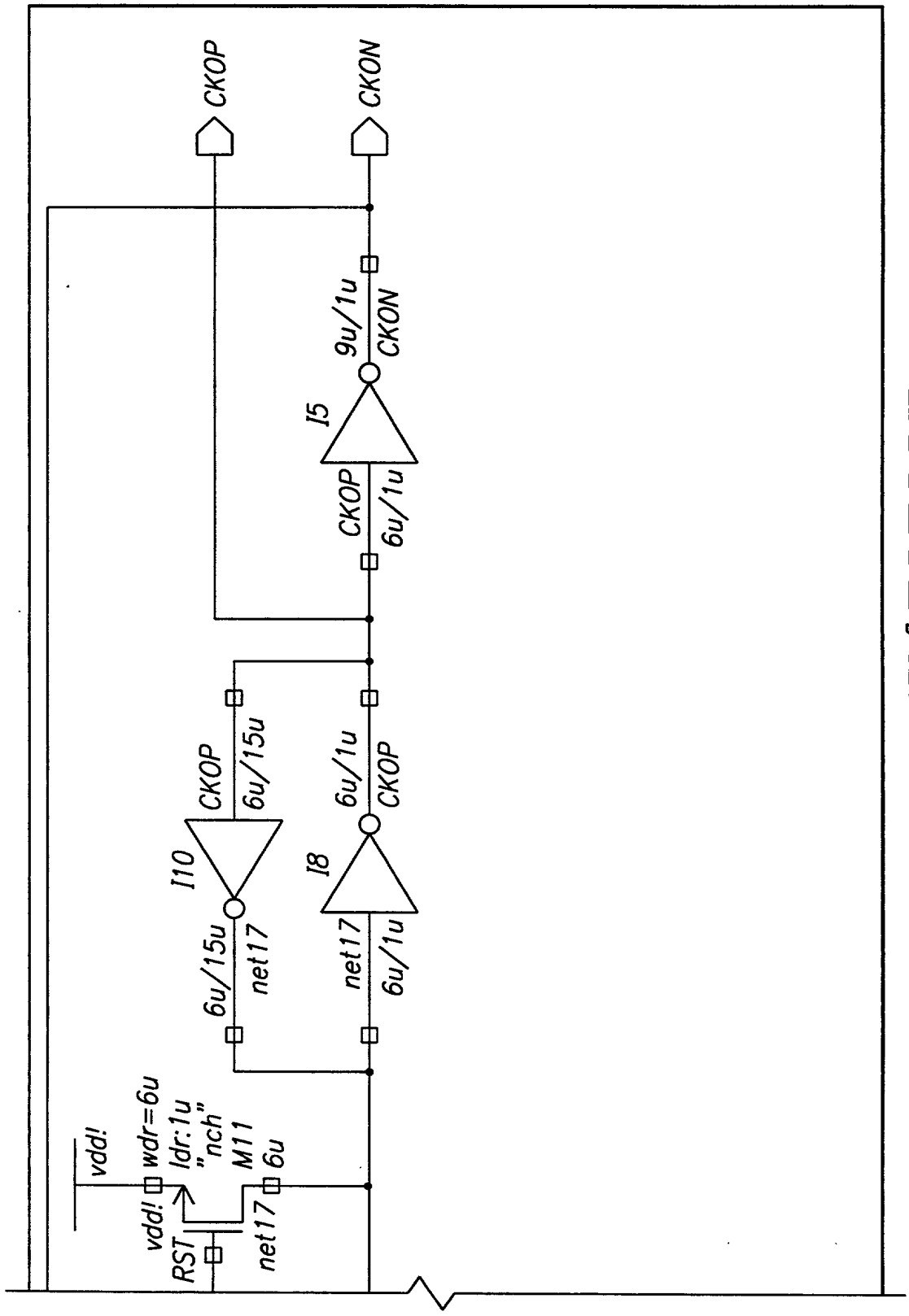
US 2005/0229049 A1

TOTOKO 国土

1439/3273 0000000000


M12
6u
net17
CKN
wdr=6u
ldr:1u
"nch"
net3
I4
6u/15u
net3
6u/15u
I17
6u/1u
net3
6u/15u
net14
net14
6u/1u
6u
M15
"nch"
ldr:1u
wdr=6u
vss!
net14
RST
vss!
M0
6u
net14
CKP
wdr=6u
ldr:1u
"nch"
CKON
RST
CKP
CKN

Фиг 8.4.1.1.1



Фиг. 8.004_1001_1AB

T0T190 "E90230A0

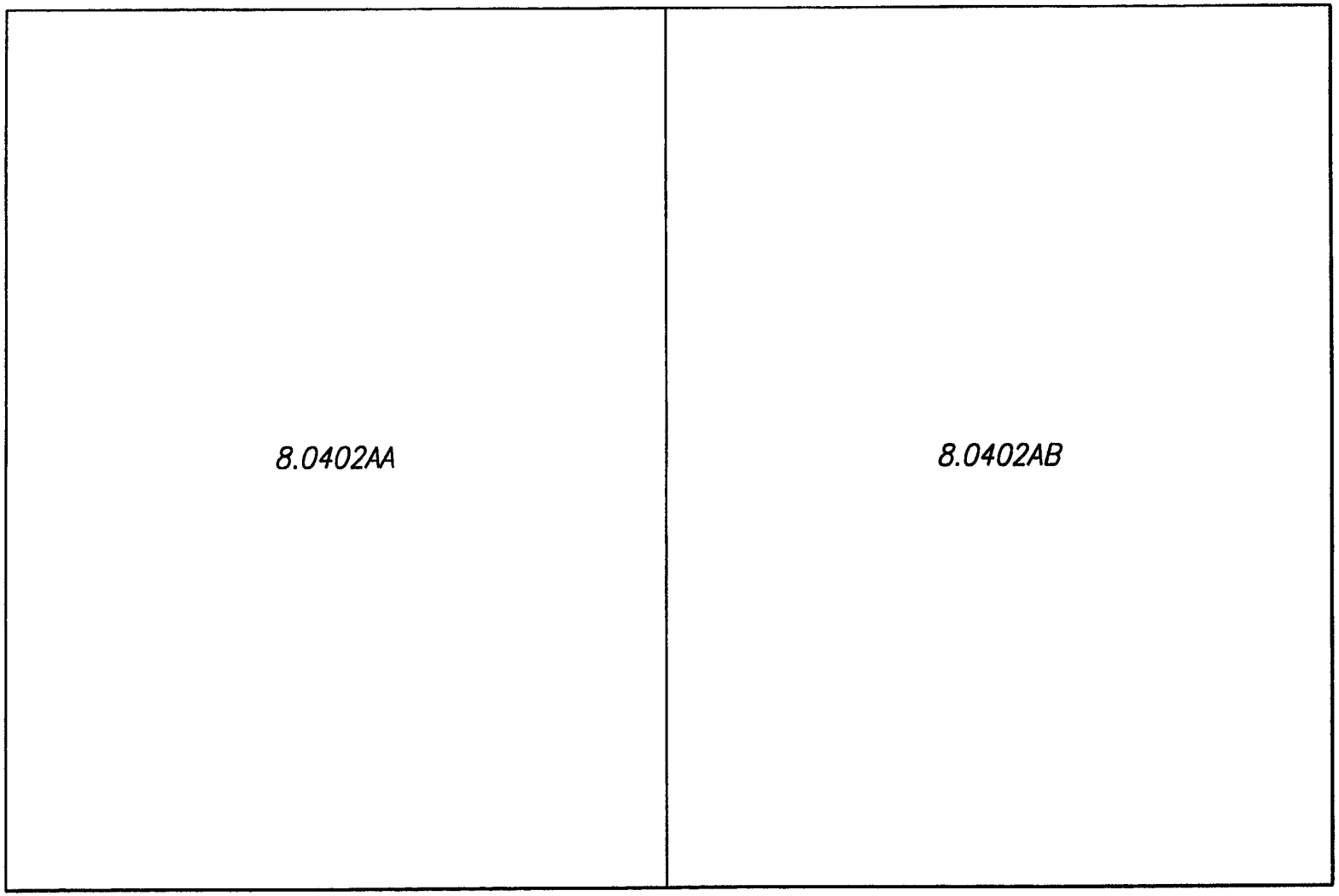


Fig 8.0402

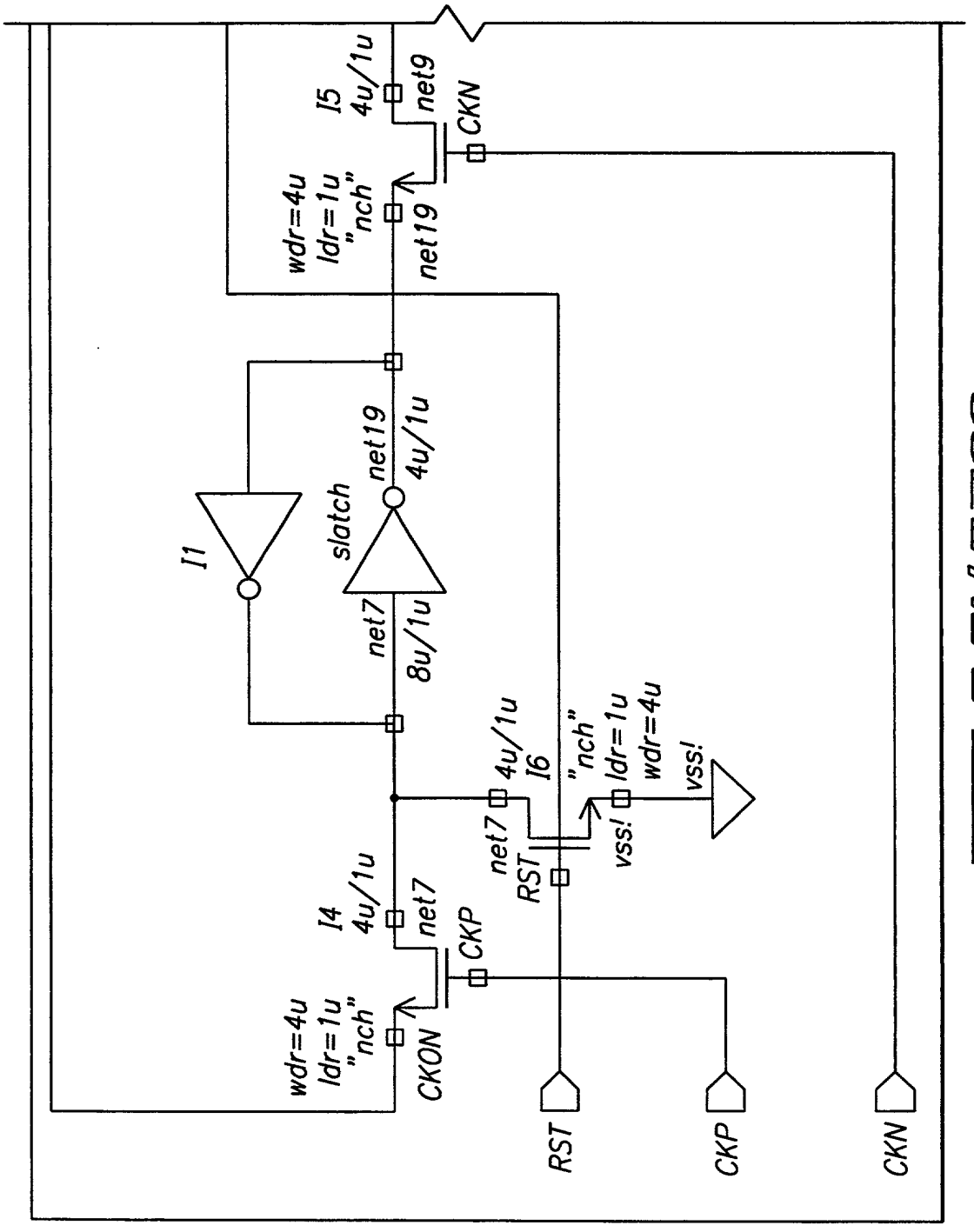
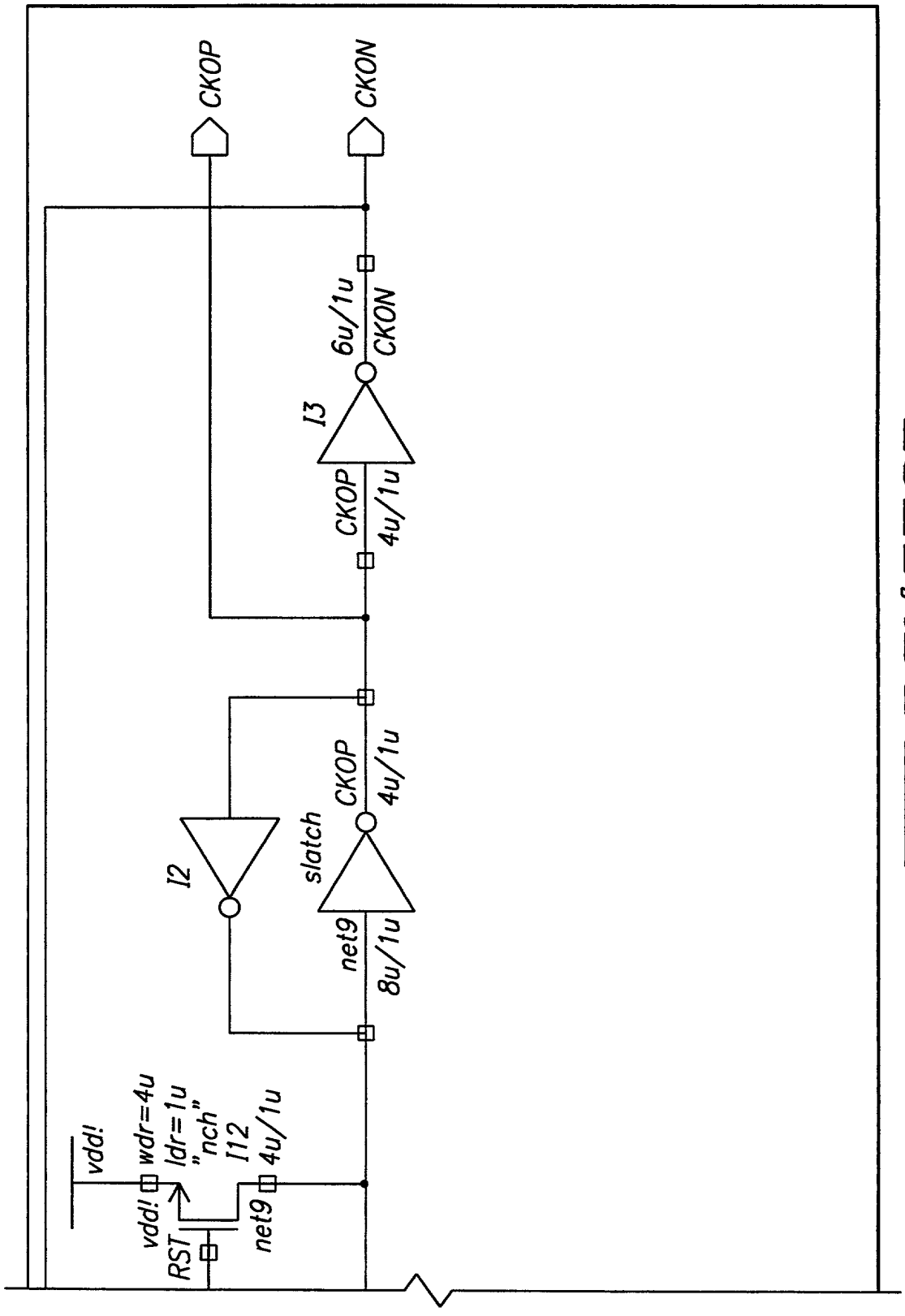


FIG 8A

09622695 - 051404


CKOP
CKON
6u/1u
CKON
I3
CKOP
4u/1u
CKOP
4u/1u
slatch
I2
net9
8u/1u
vdd!
wdr=4u
ldr=1u
"nch"
I12
4u/1u
vdd!
RST
net9

Фиг. 8.004АВ

8.05AA	8.05AB	8.05AC	8.05AD	8.05AE
8.05BA	8.05BB	8.05BC	8.05BD	8.05BE
8.05CA	8.05CB	8.05CC	8.05CD	8.05CE
8.05DA	8.05DB	8.05DC	8.05DD	8.05DE

Fig 8.05

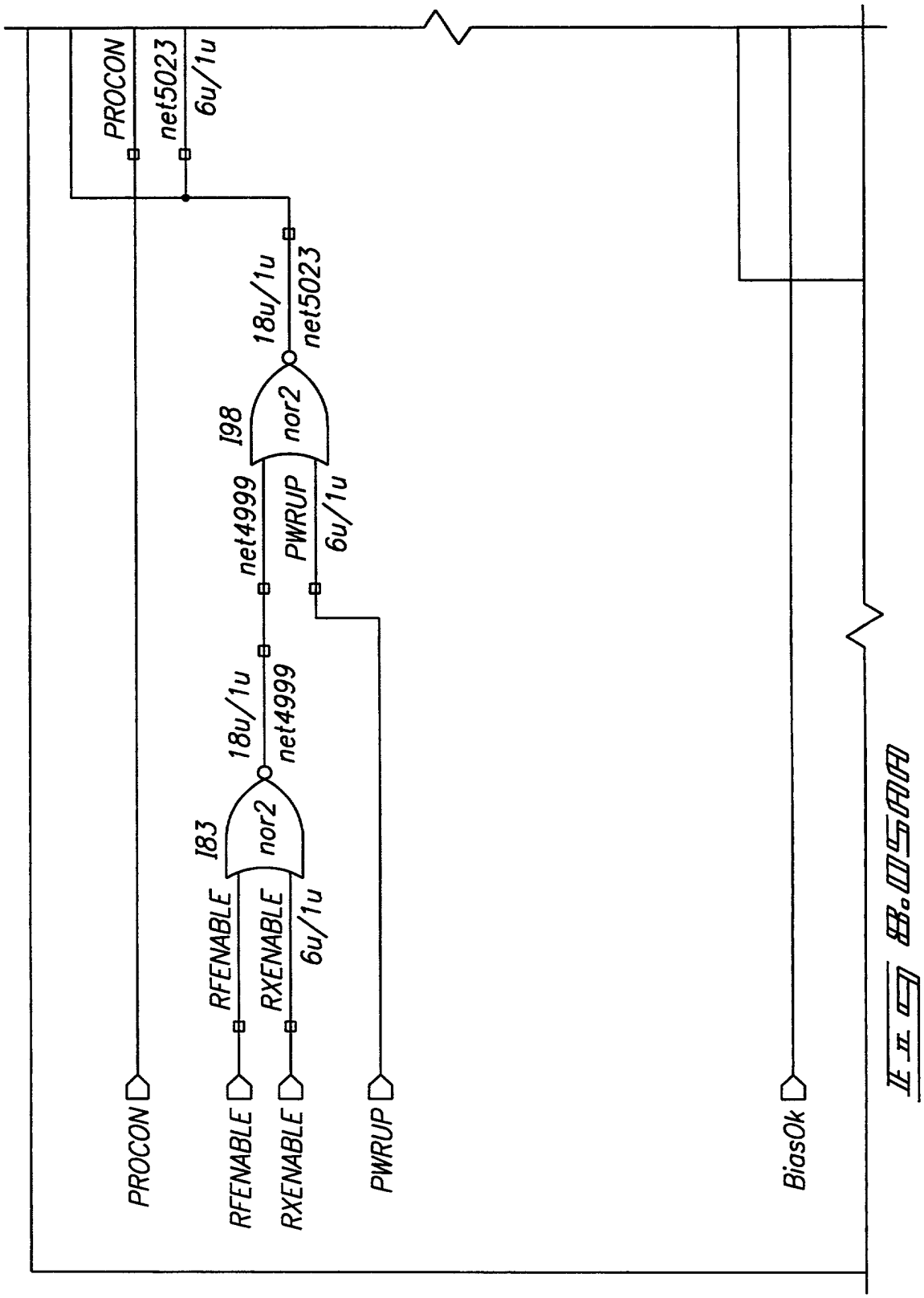
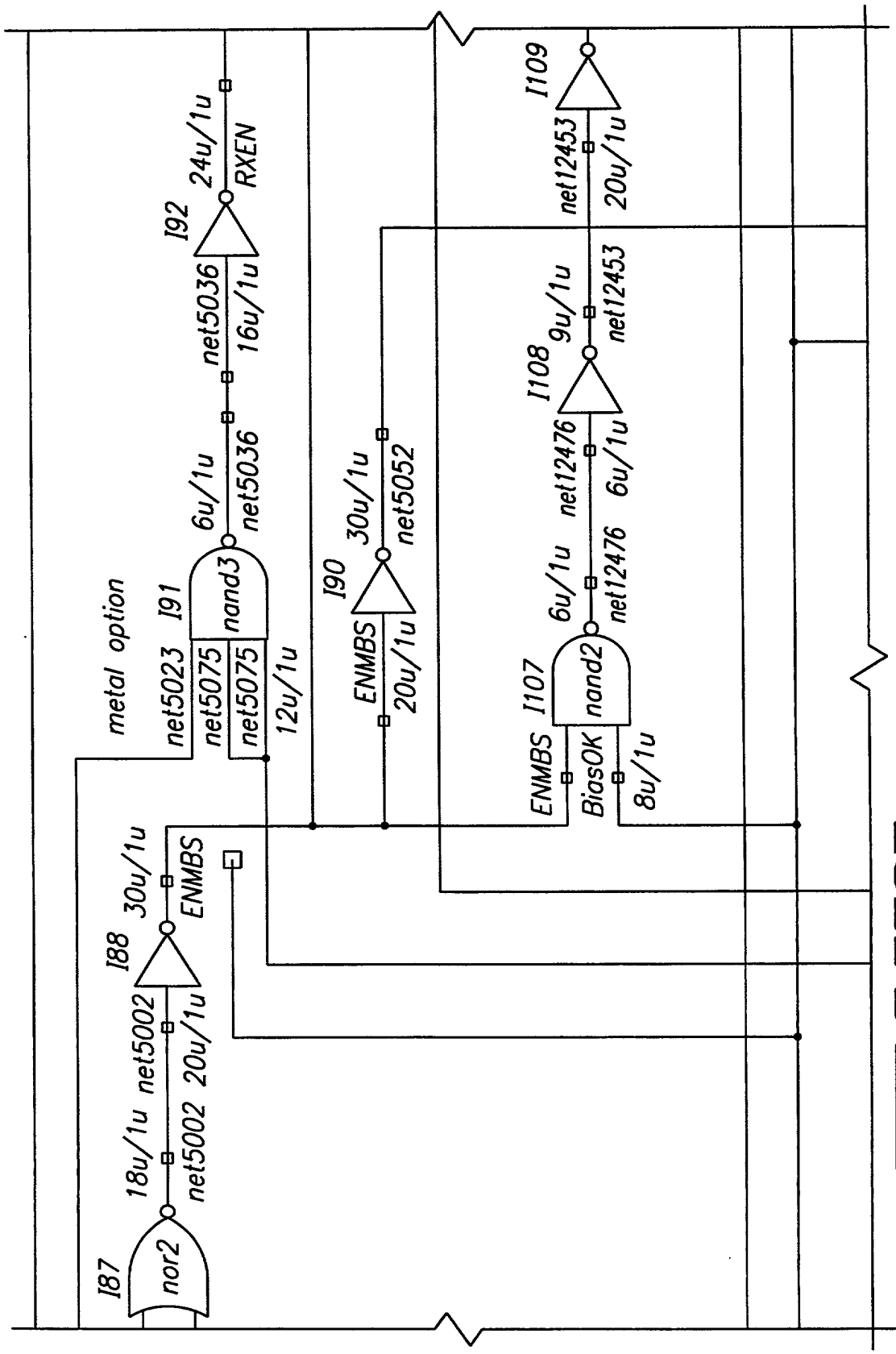
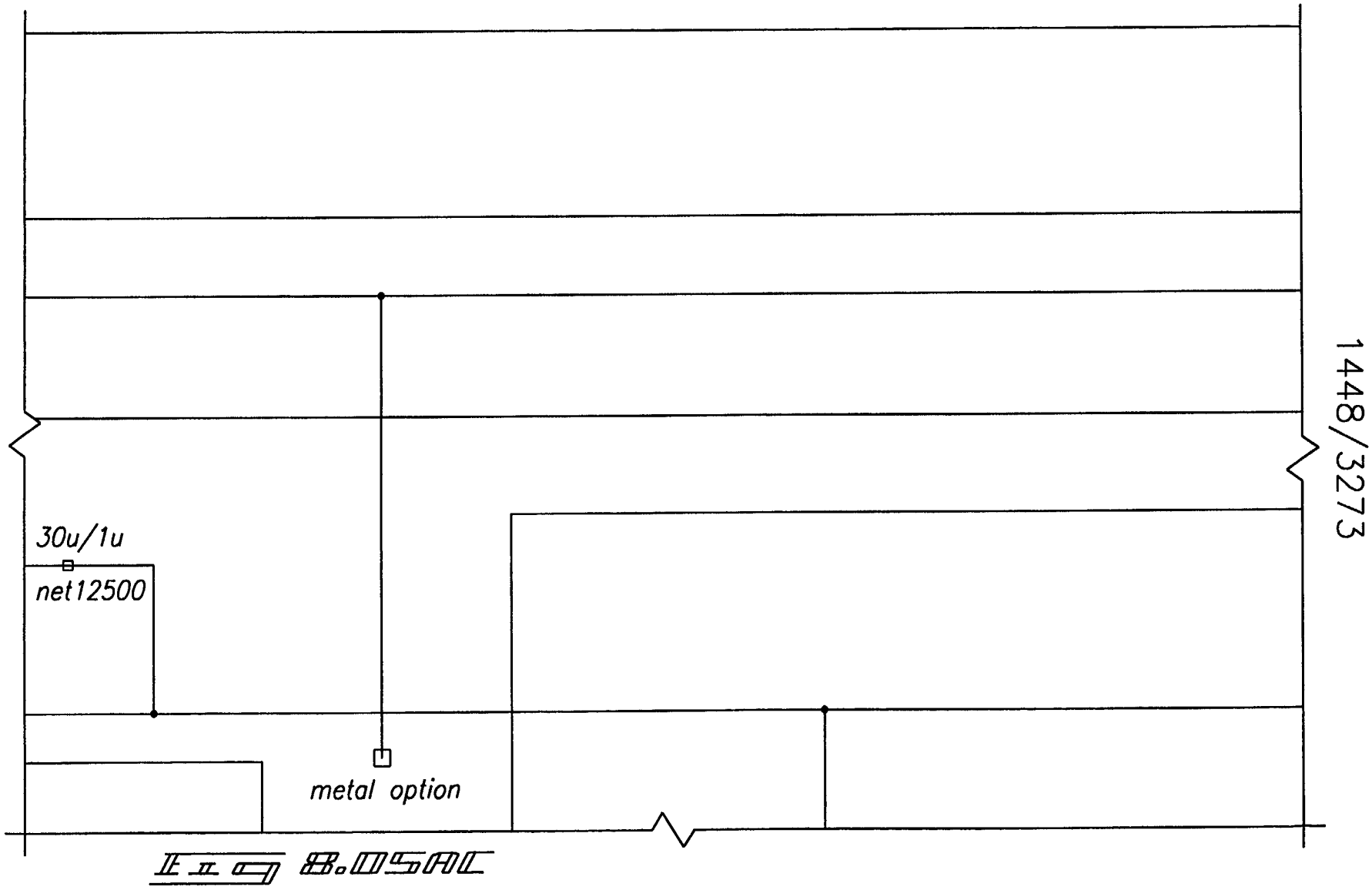

PROCON
net5023
6u/1u
18u/1u
net5023
I98
nor2
net4999
PWRUP
6u/1u
18u/1u
net4999
I83
nor2
RFENABLE
RXENABLE
6u/1u
PROCON
RFENABLE
RXENABLE
PWRUP
BiasOk

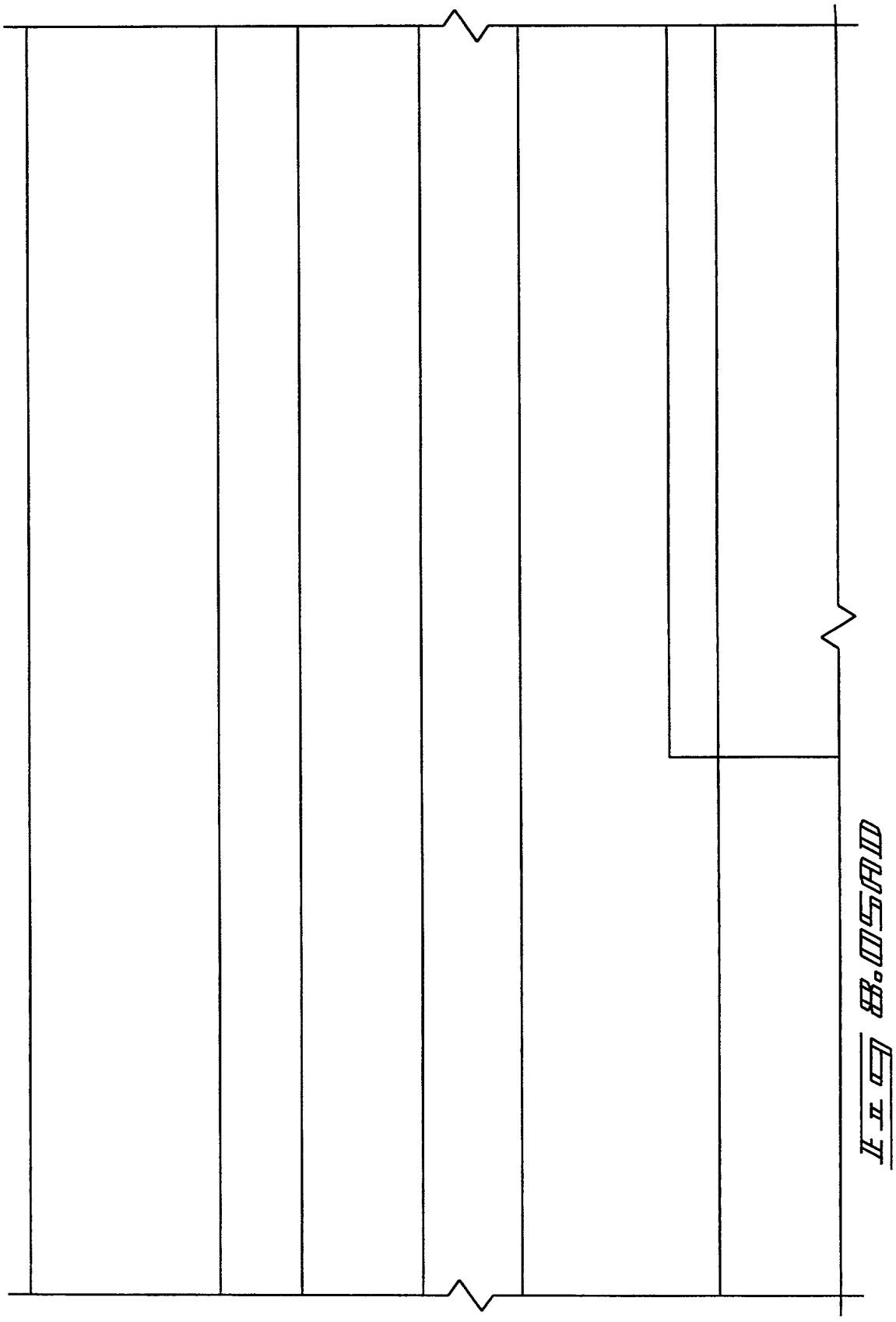
FIG 8.05AA



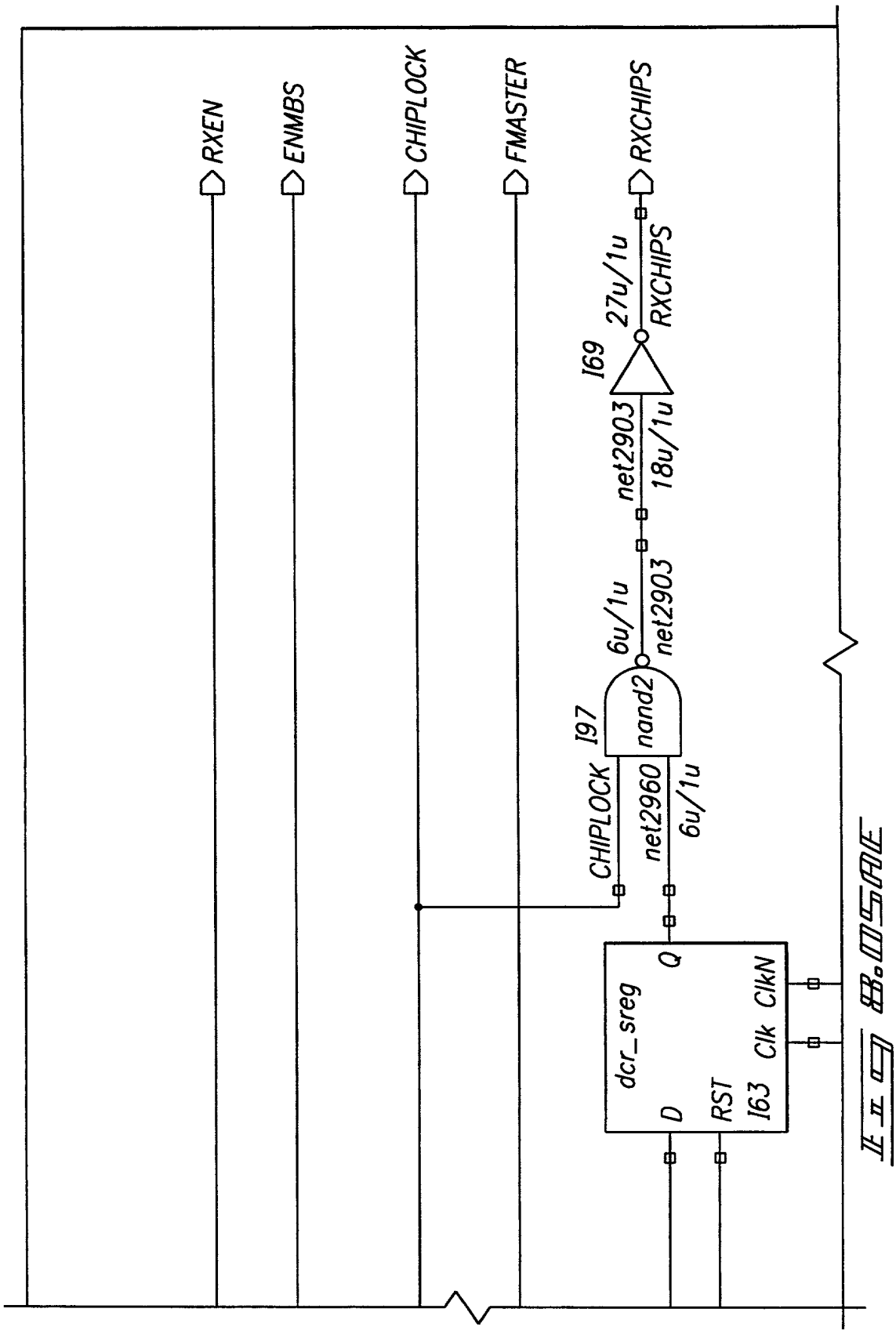
EP1179901A2

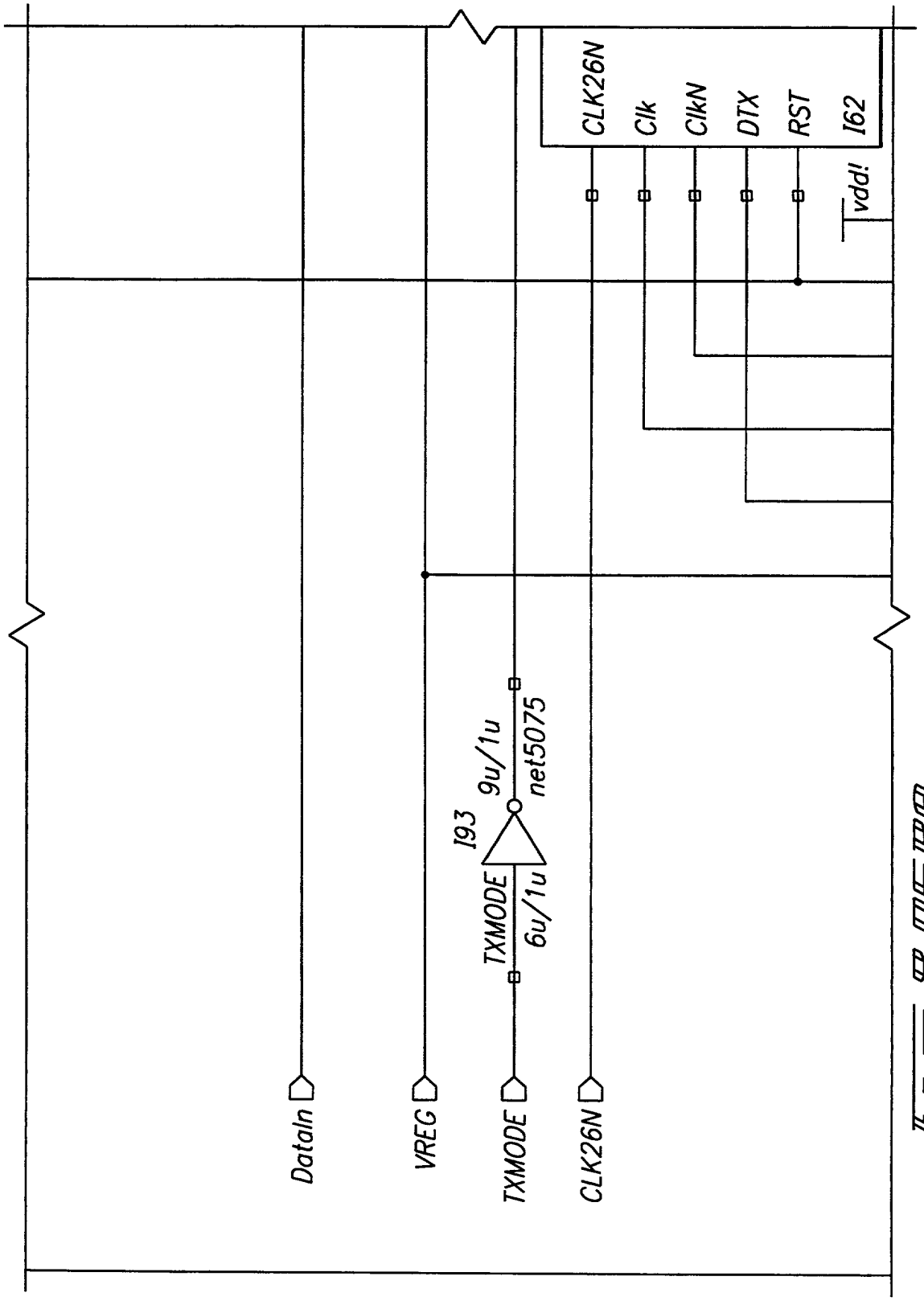
TOTT90" E90238A0





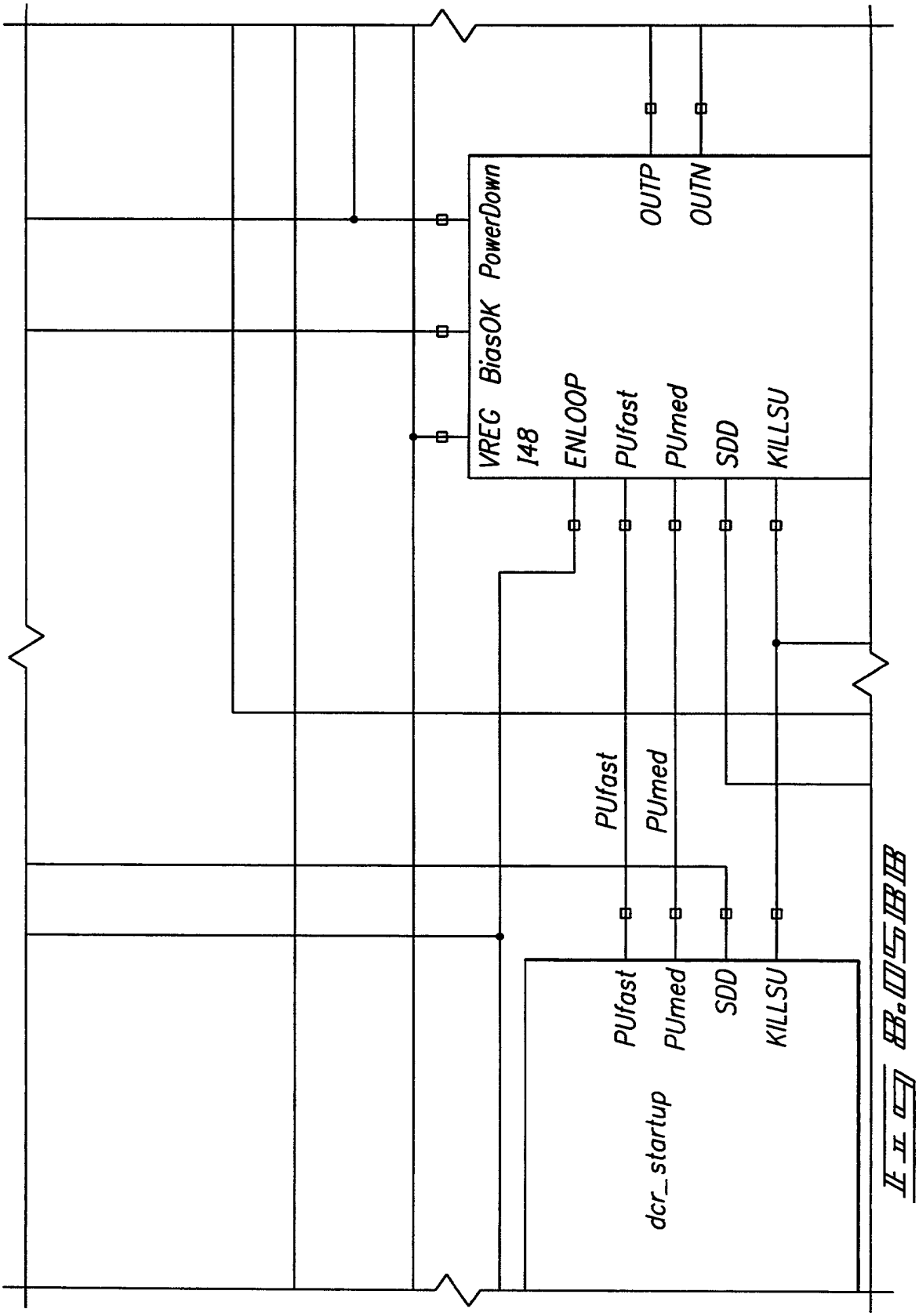
DOCKET - 05-4-404


RXEN
ENMBS
CHIPLOCK
FMASTER
RXCHIPS
I69
27u/1u
RXCHIPS
net2903
18u/1u
net2903
6u/1u
I97
nand2
CHIPLOCK
net2960
6u/1u
dcr_sreg
Q
D
RST
I63
Clk
ClkN



Фиг 8.05ВА

EP 1 450 495 A2 20040825


VREG
BiasOK
PowerDown
I48
ENLOOP
PUfast
PUmed
SDD
KILLSU
OUTP
OUTN
PUfast
PUmed
SDD
KILLSU
dcr_startup

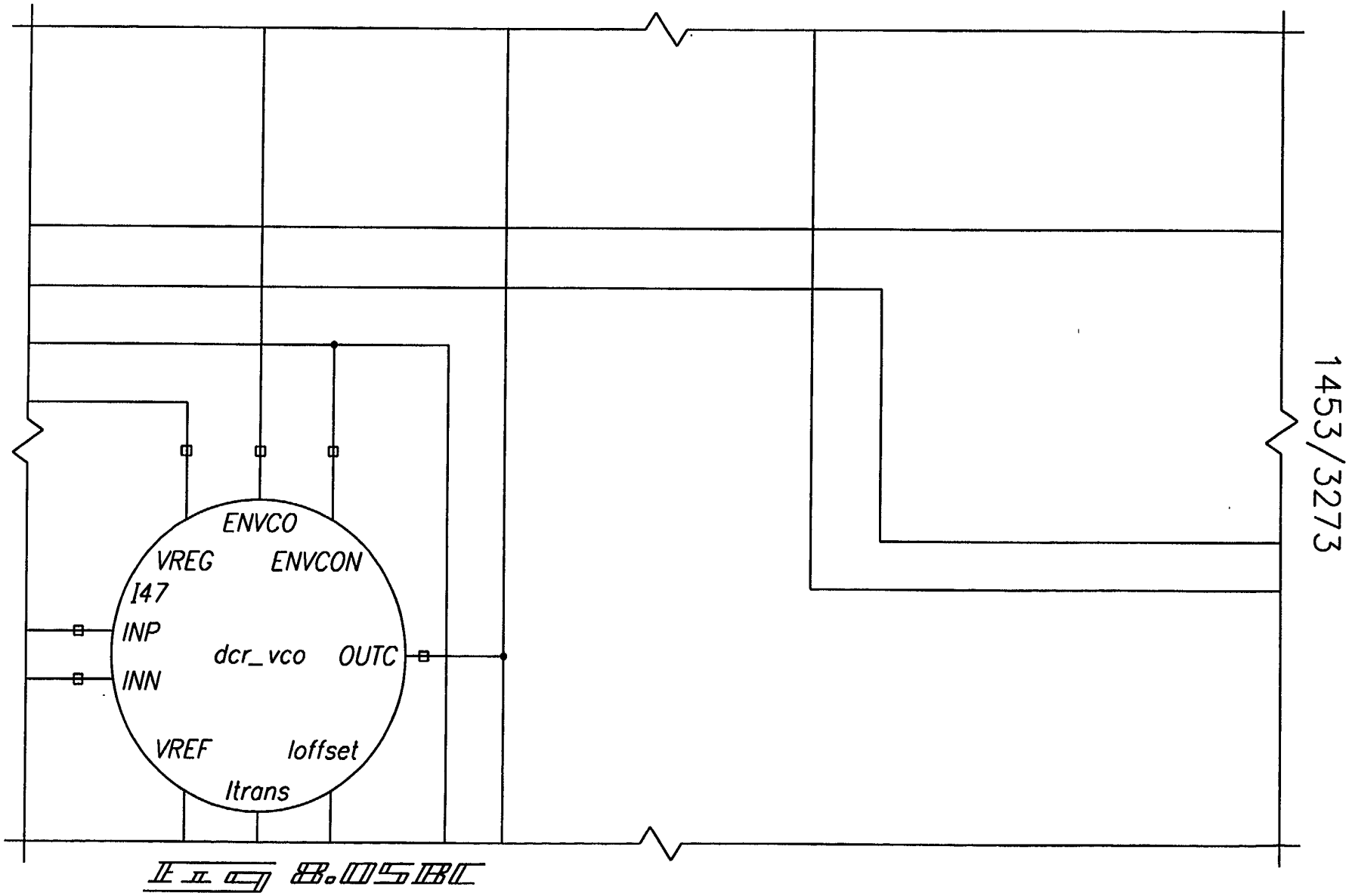
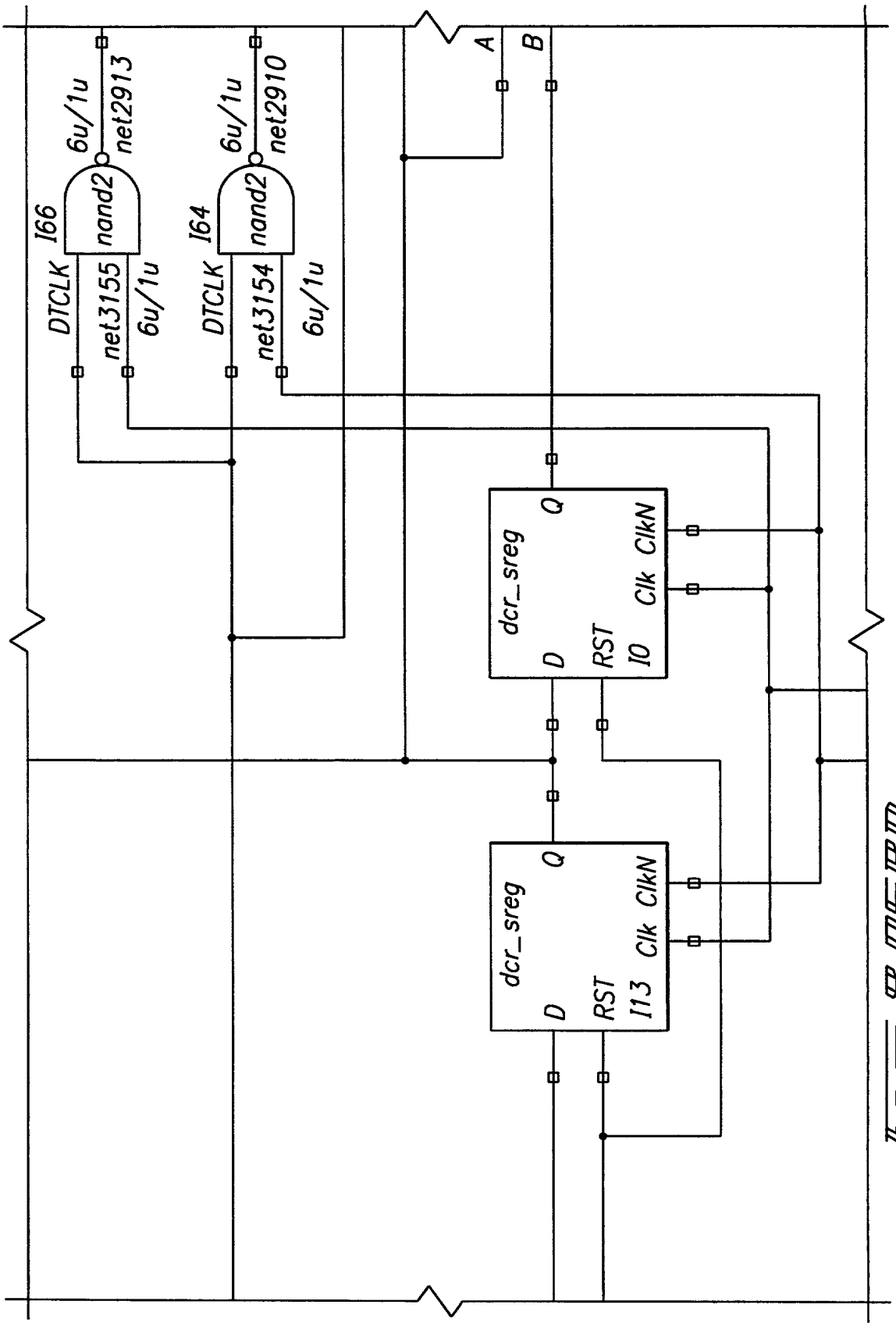
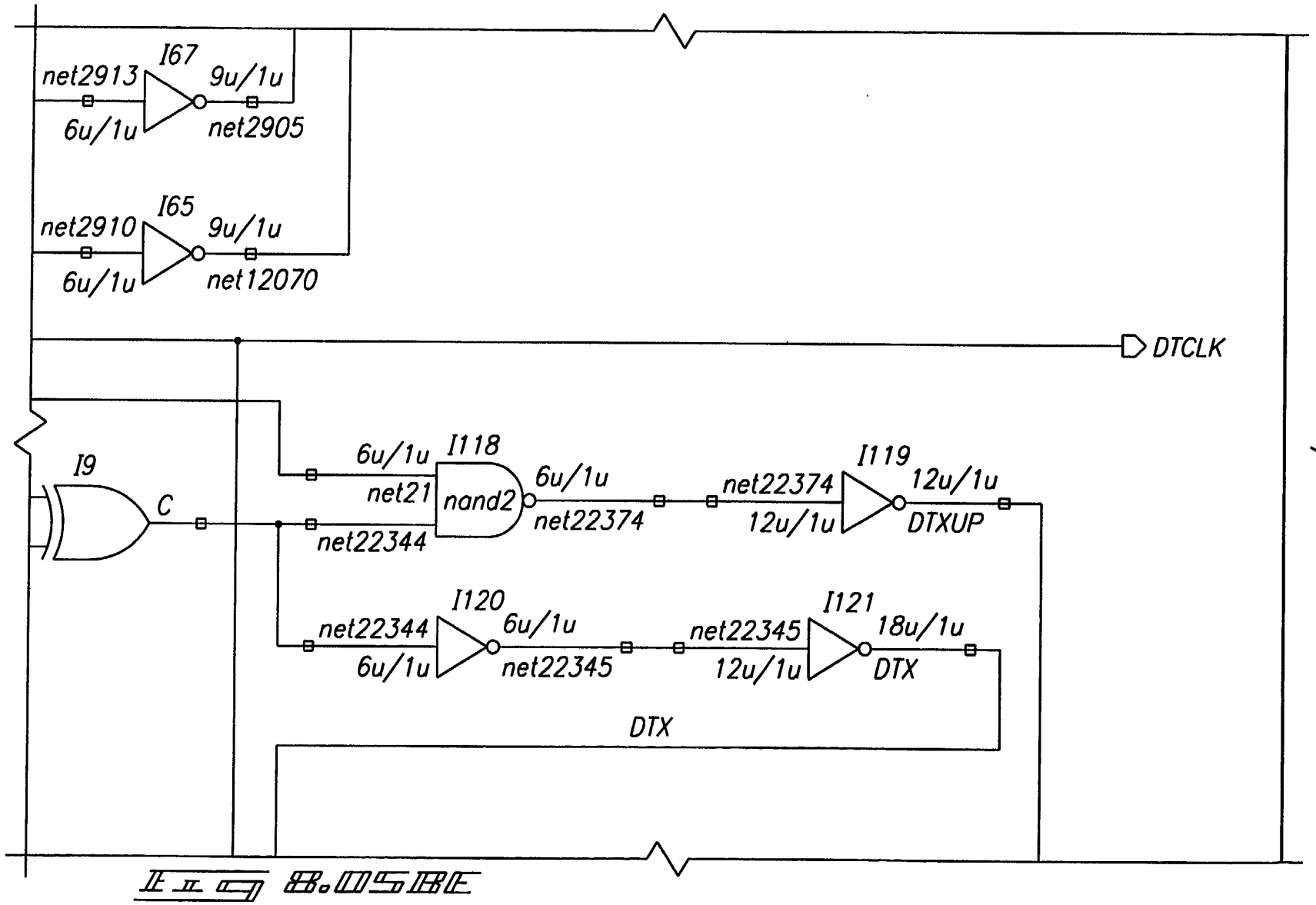

ENVCO
VREG
ENVCON
I47
INP
dcr_vco
OUTC
INN
VREF
Ioffset
Itrans
1453/3273

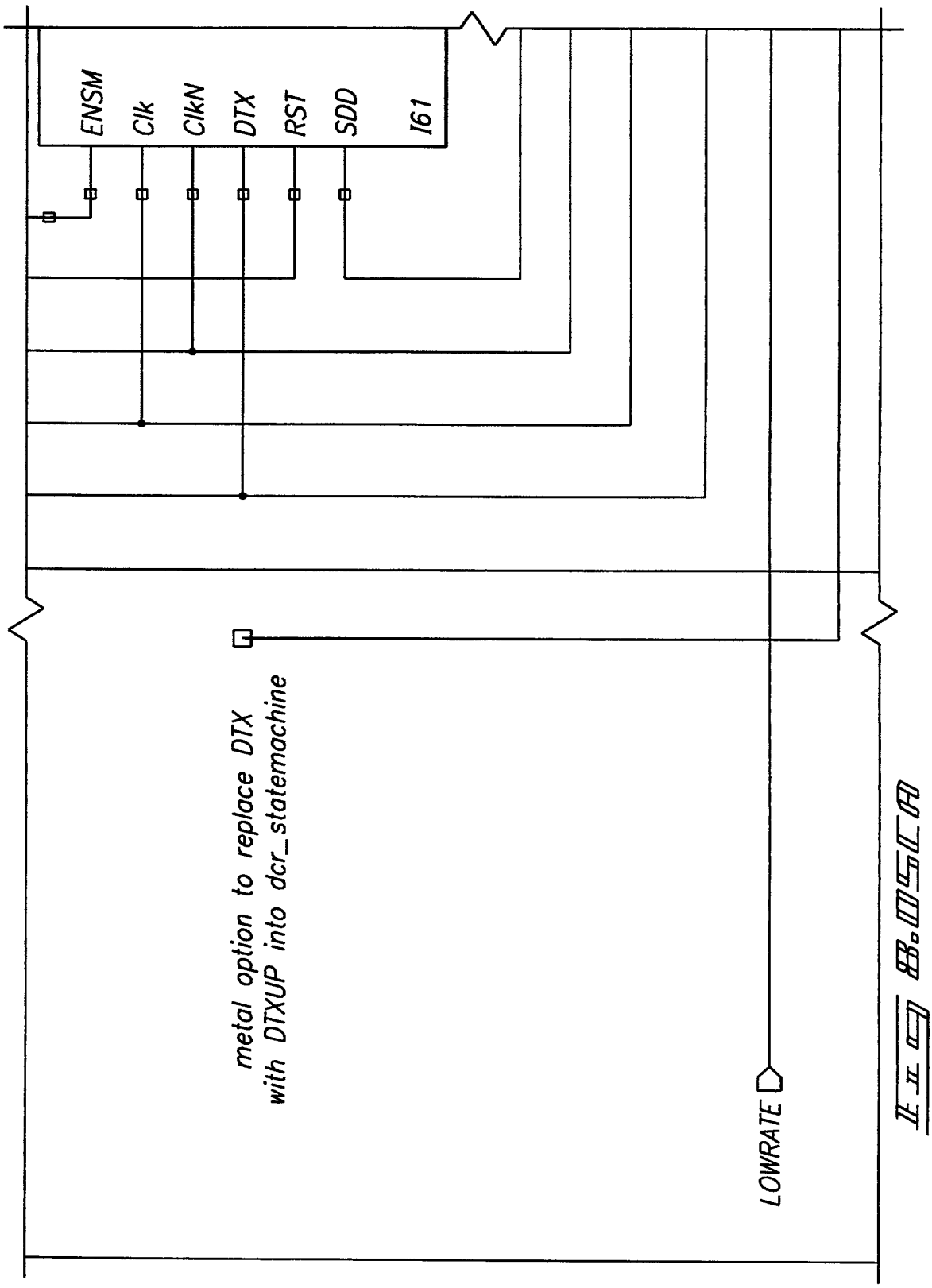
Fig 8.0586



Фиг. 89.0518ID


I67
net2913
9u/1u
6u/1u
net2905
I65
net2910
9u/1u
6u/1u
net12070
DTCLK
I9
C
6u/1u
I118
net21
nand2
6u/1u
net22374
net22344
net22374
I119
12u/1u
net22374
12u/1u
DTXUP
I120
net22344
6u/1u
6u/1u
net22345
I121
net22345
18u/1u
12u/1u
DTX
DTX

1455/3273



1015990 • 20020520

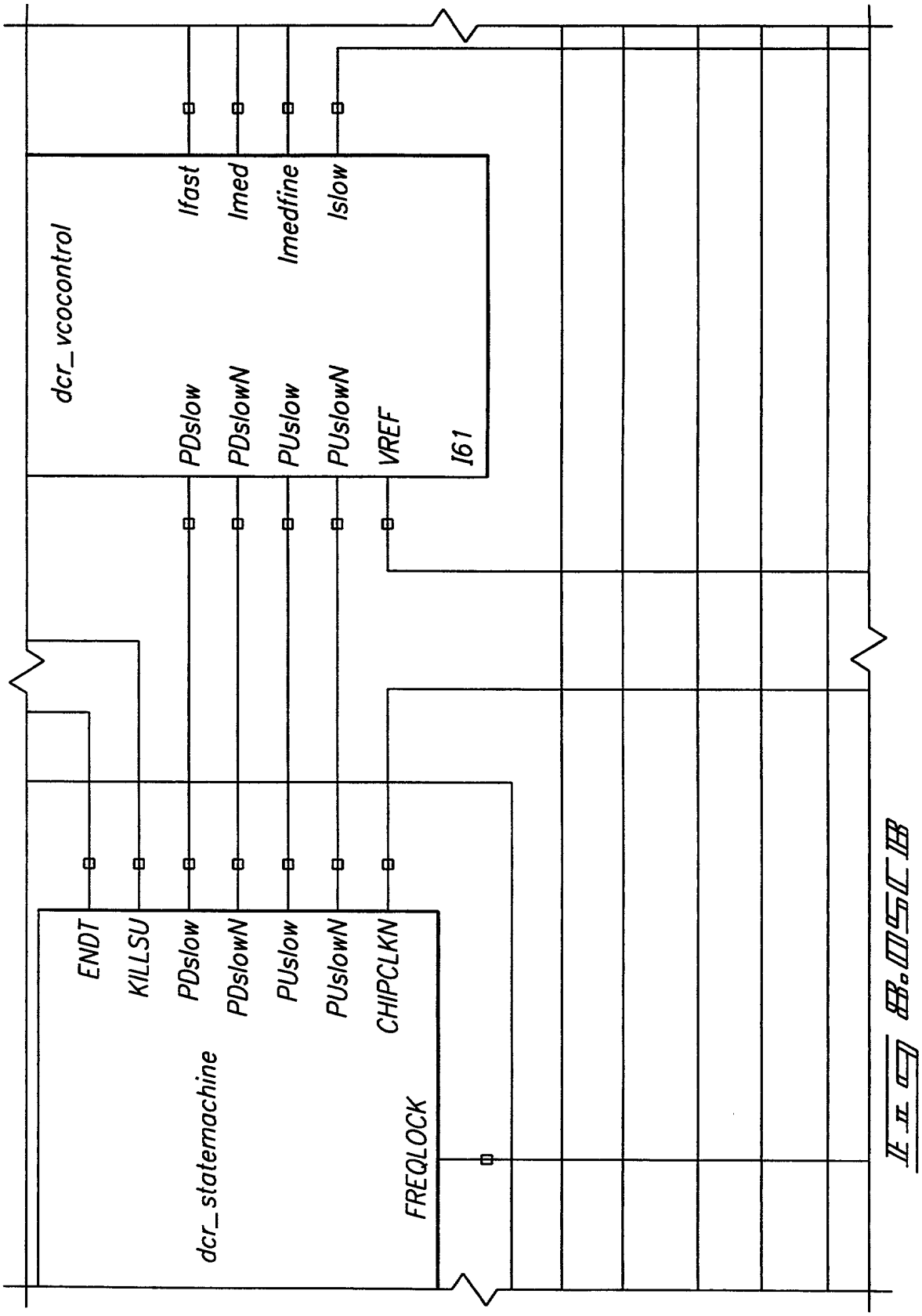


Fig. 88.0558

US20050195014A1

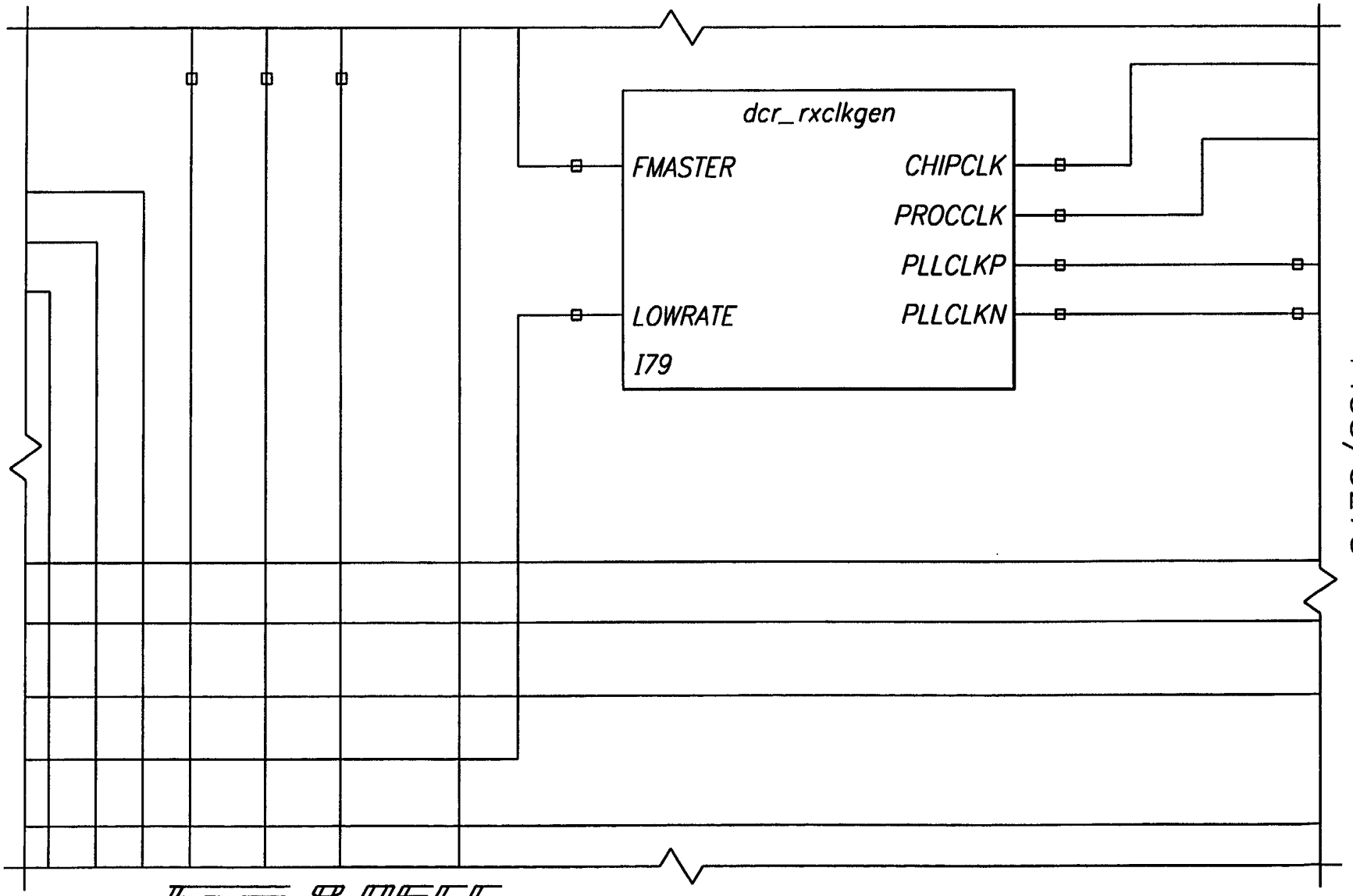
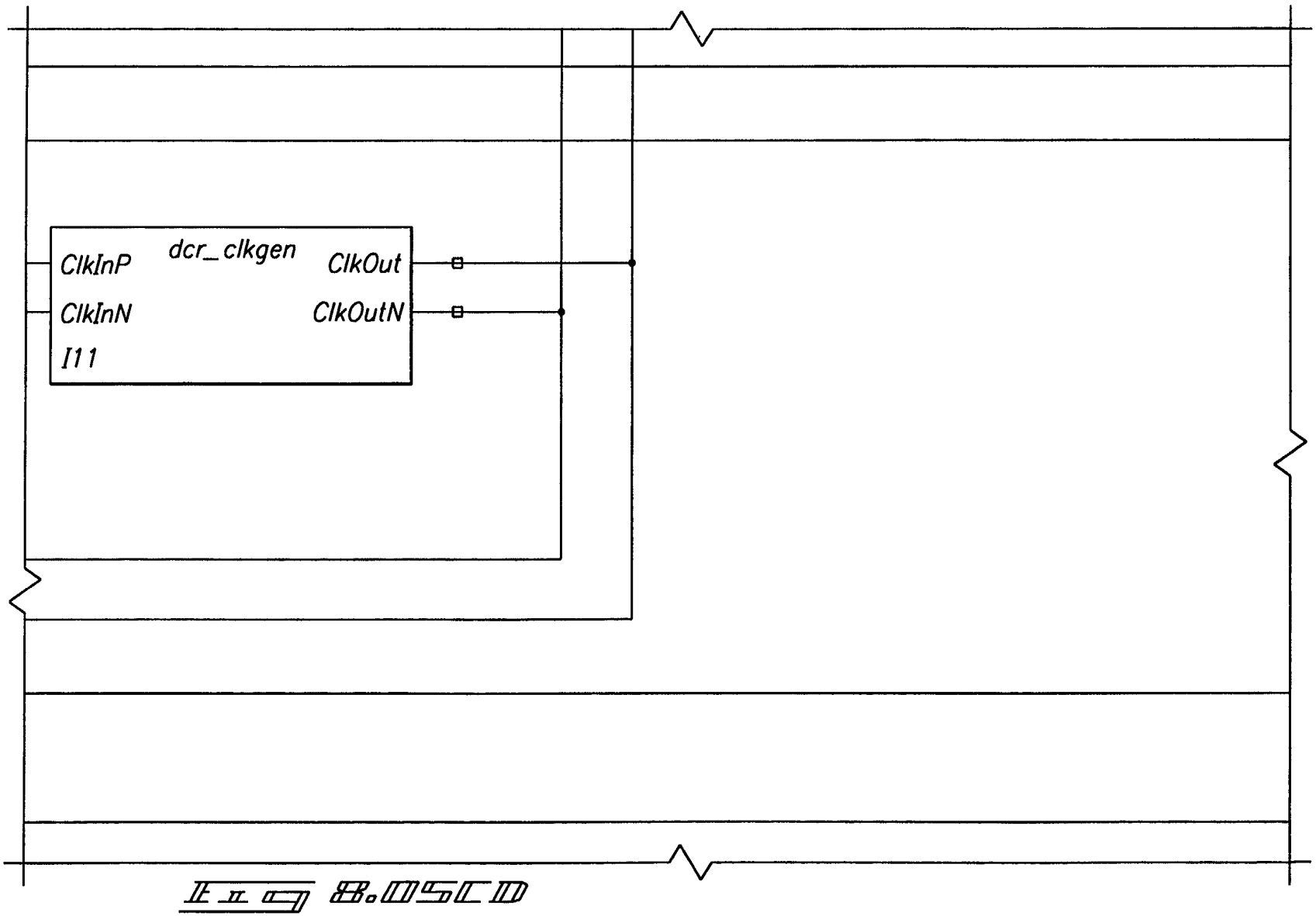

dcr_rxclkgen
FMASTER
LOWRATE
I79
CHIPCLK
PROCCLK
PLLCLKP
PLLCLKN

Fig 8.05CC


dcr_clkgen
ClkInP
ClkInN
I11
ClkOut
ClkOutN

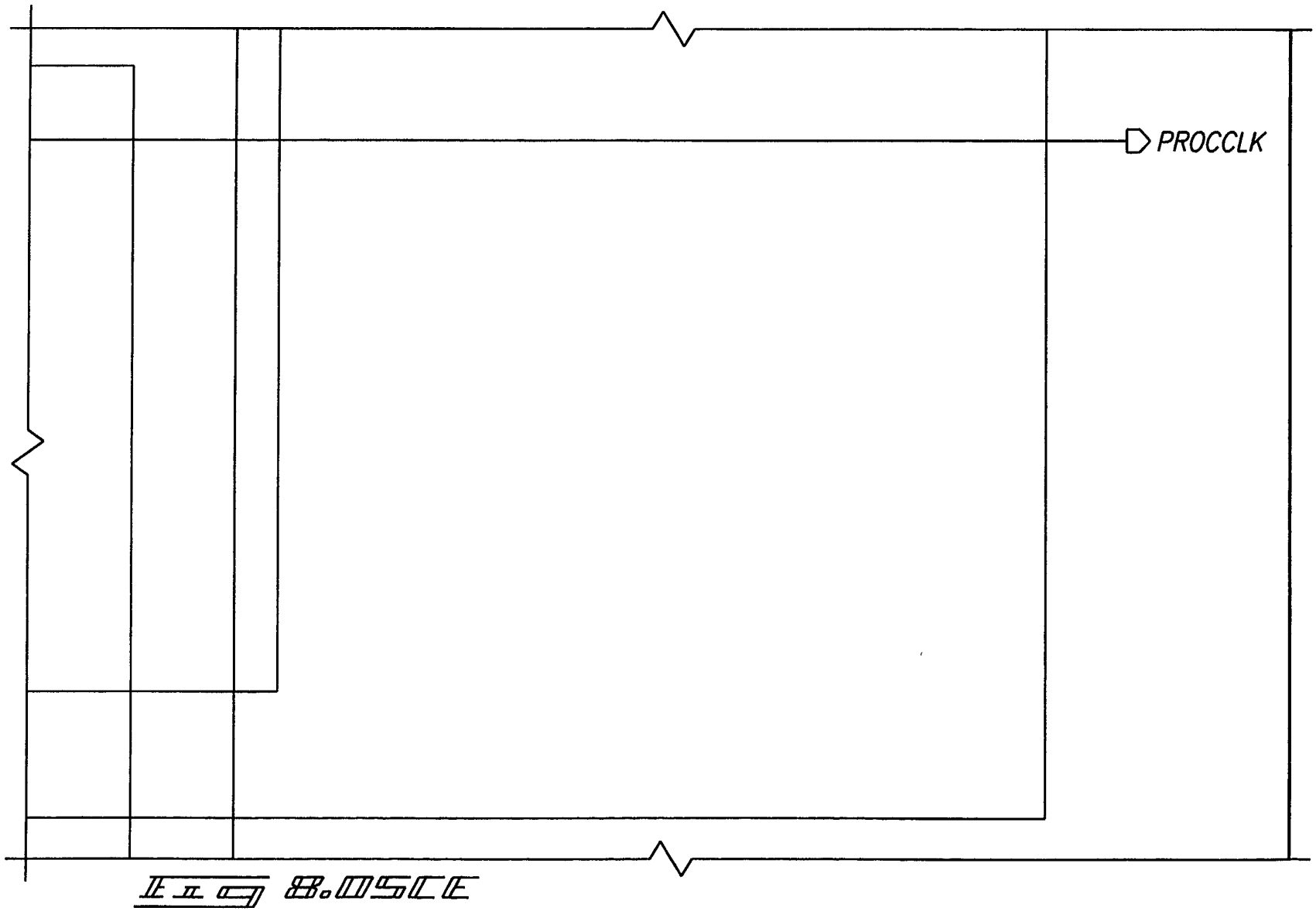
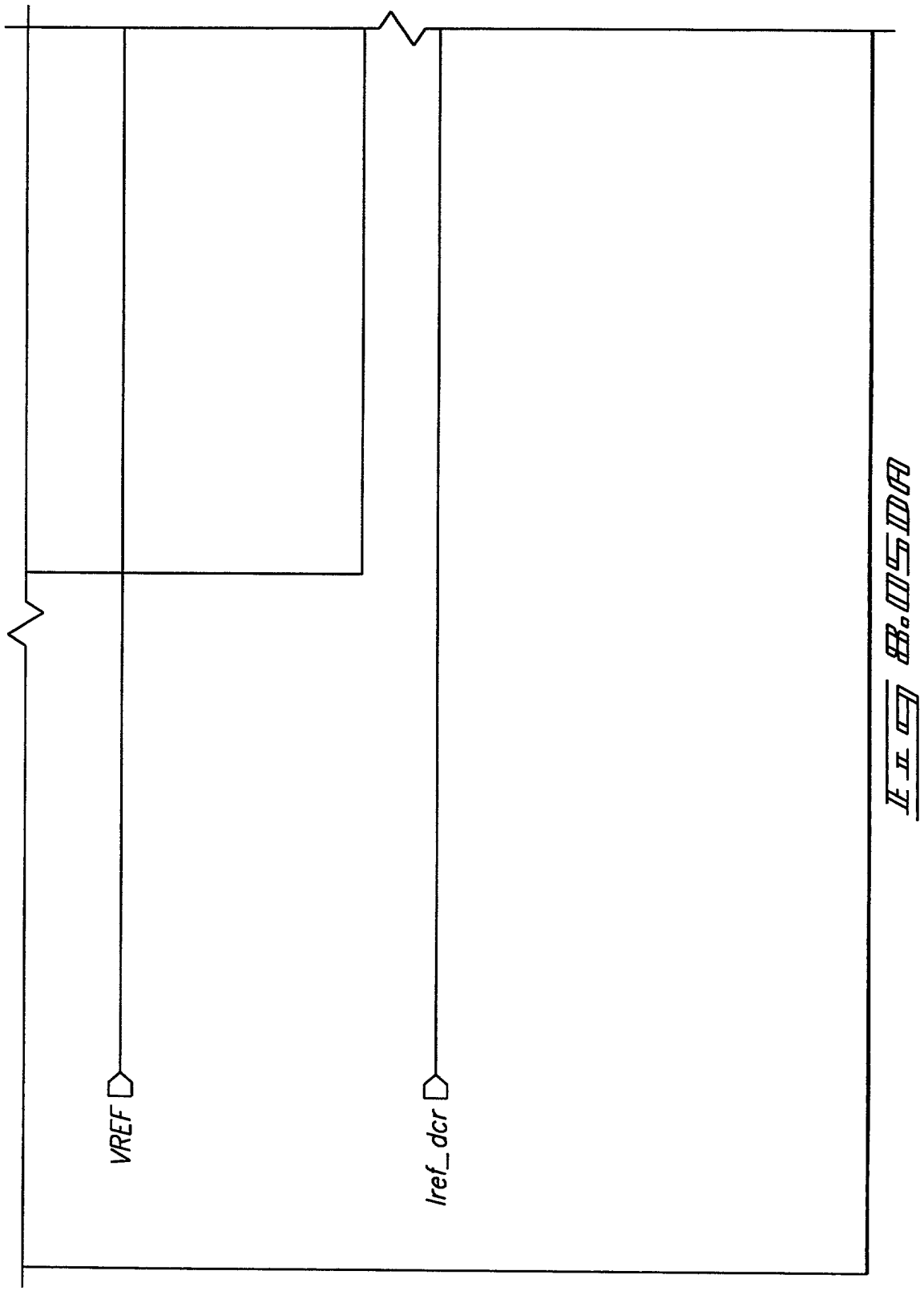


Fig 8.05CE



Confidential - Do Not Copy

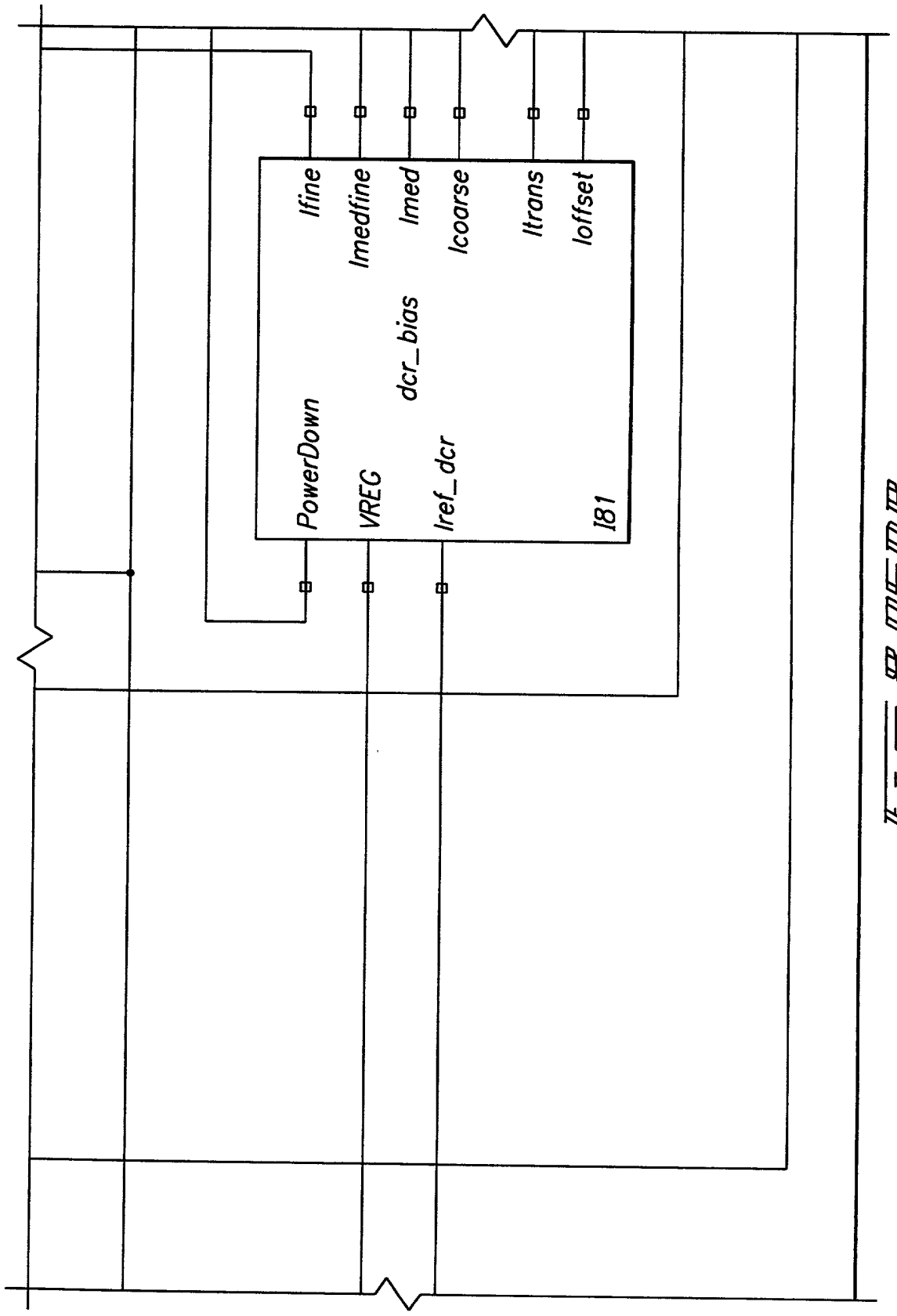
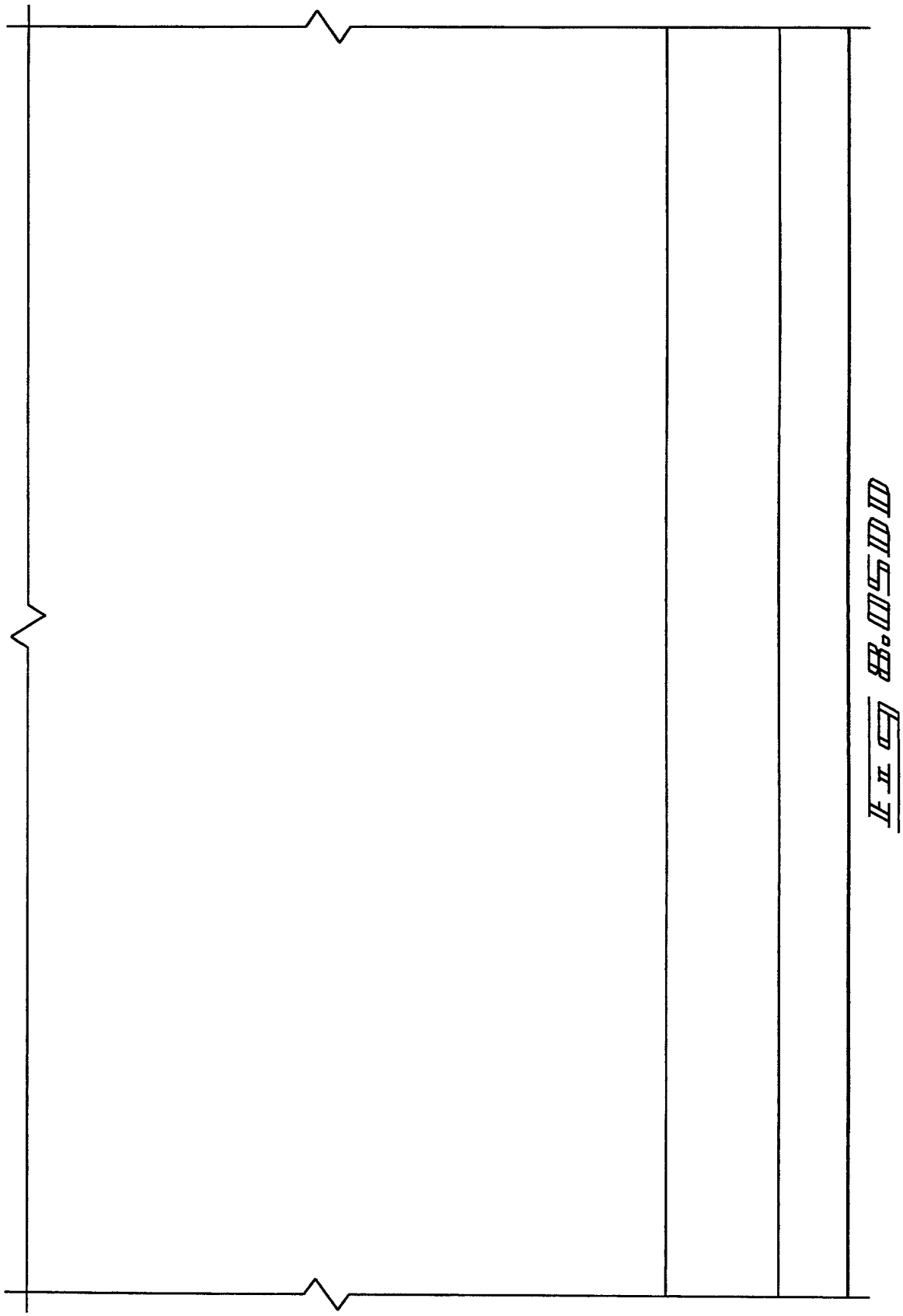


FIG 8.0508

09/22/2005, EAST Version: 2.0.3.0

1463/3273

DO NOT COPY


1464/3273
N00°00'00"E 1317.00'

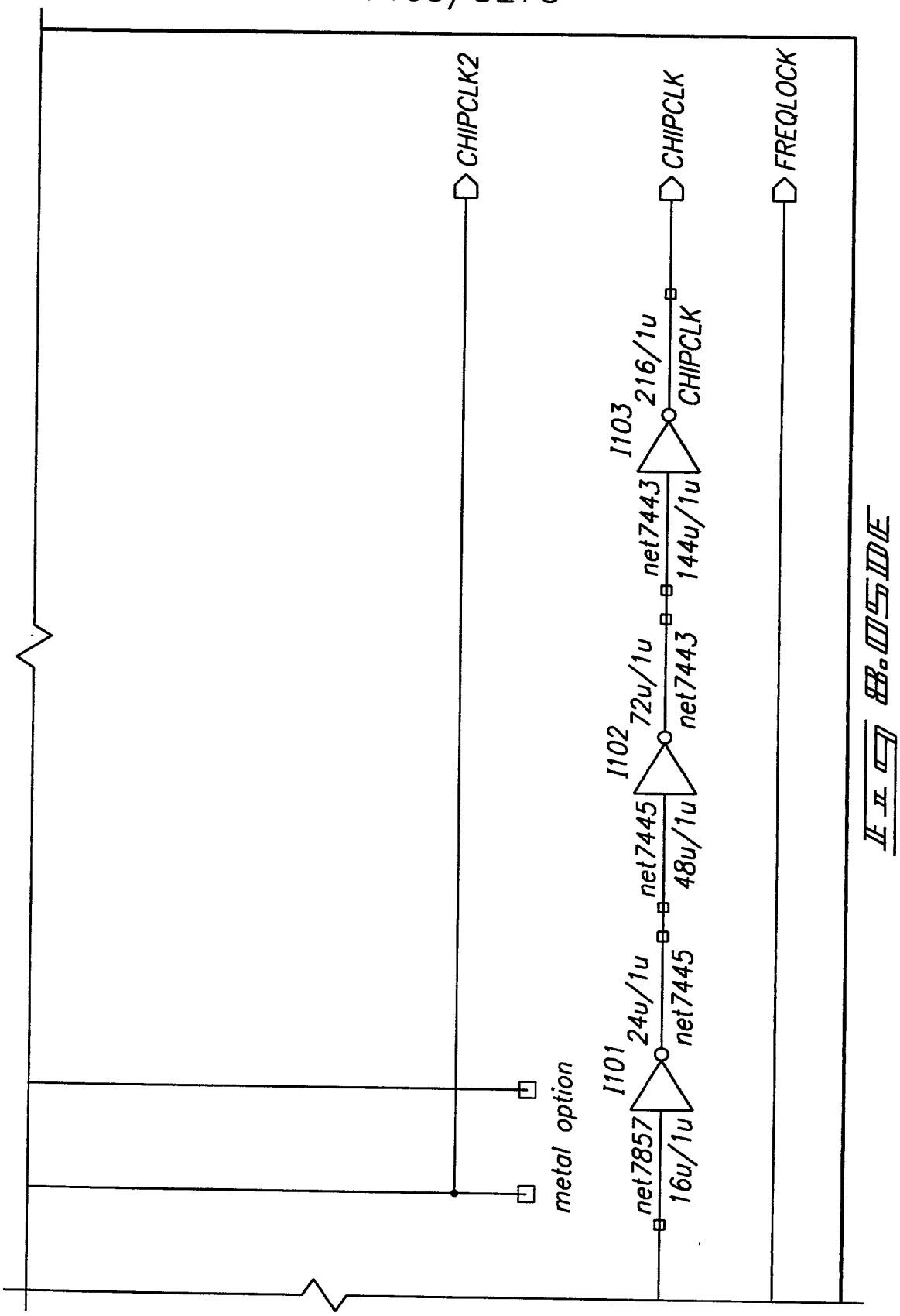
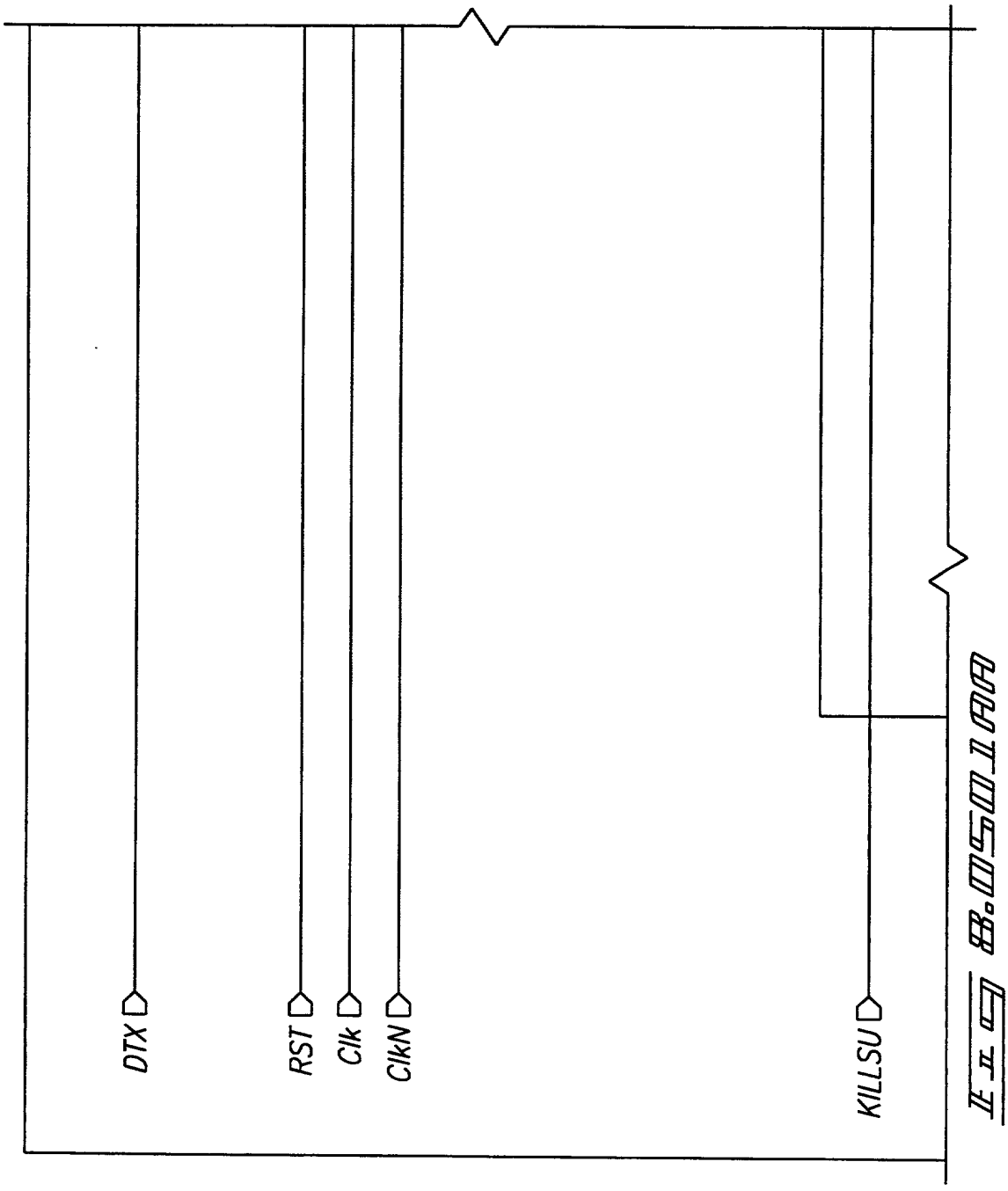

CHIPCLK2
CHIPCLK
FREQLOCK
I103
216/1u
net7443
144u/1u
I102
72u/1u
net7445
48u/1u
I101
24u/1u
net7857
16u/1u
metal option

FIG 88.05DE

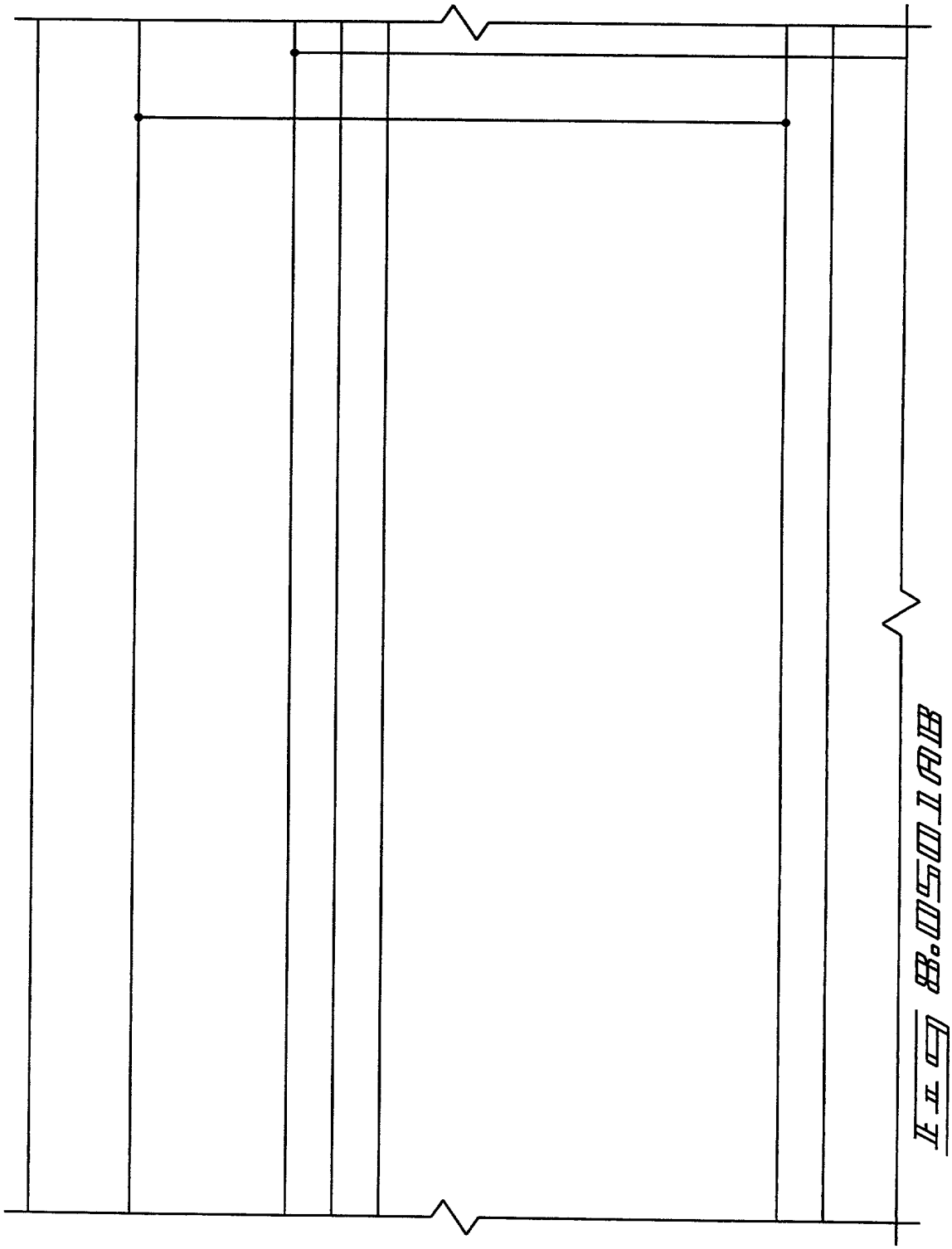
T0TT90°E90Z3860

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8.0501BA	8.0501BB	8.0501BC	8.0501BD	8.0501BE

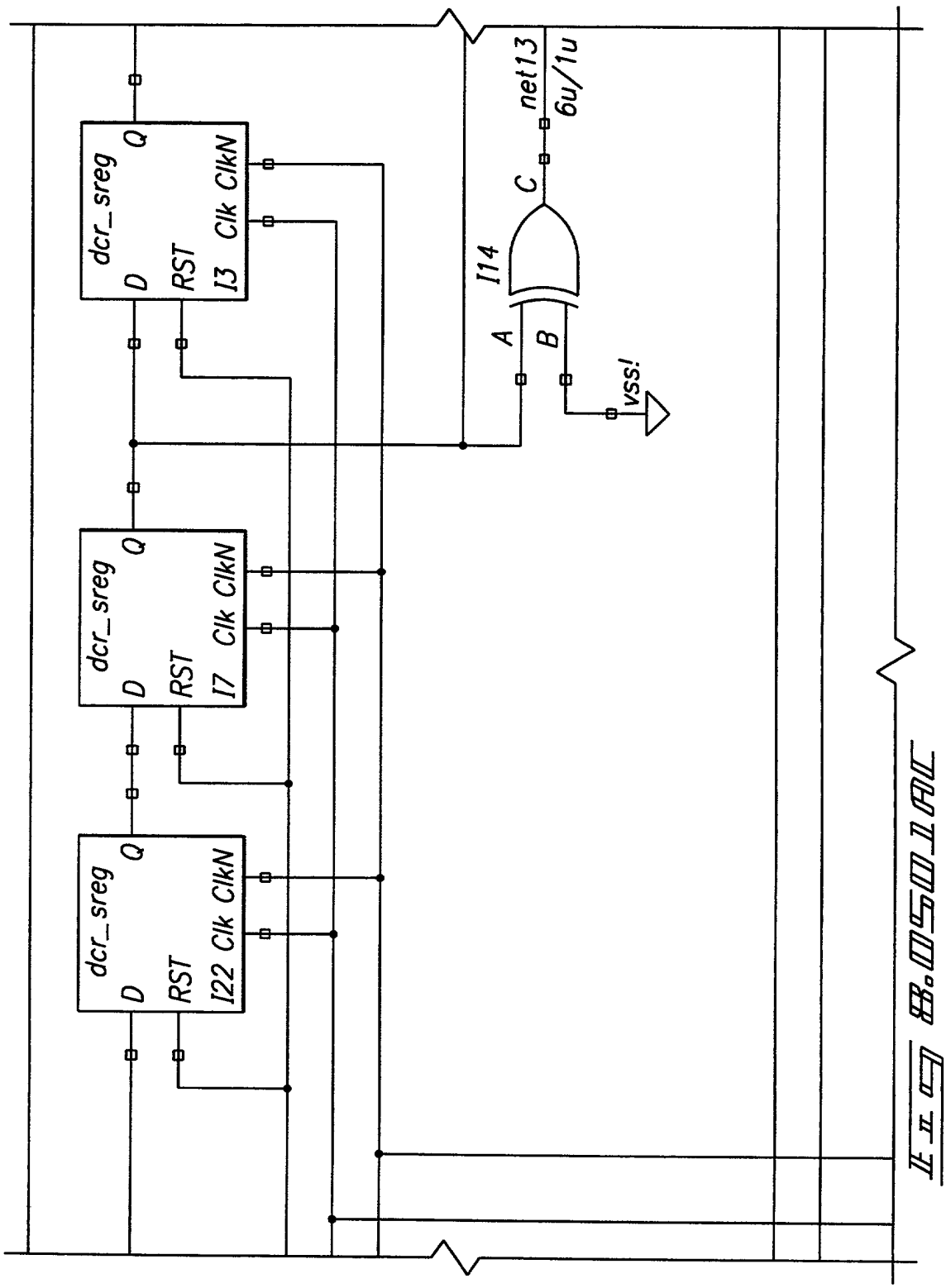
Fig 8.0501



ТЕЛЕКОМ-ПРОЕКТ



0562605 - 0562950



Фиг 88.0501AC

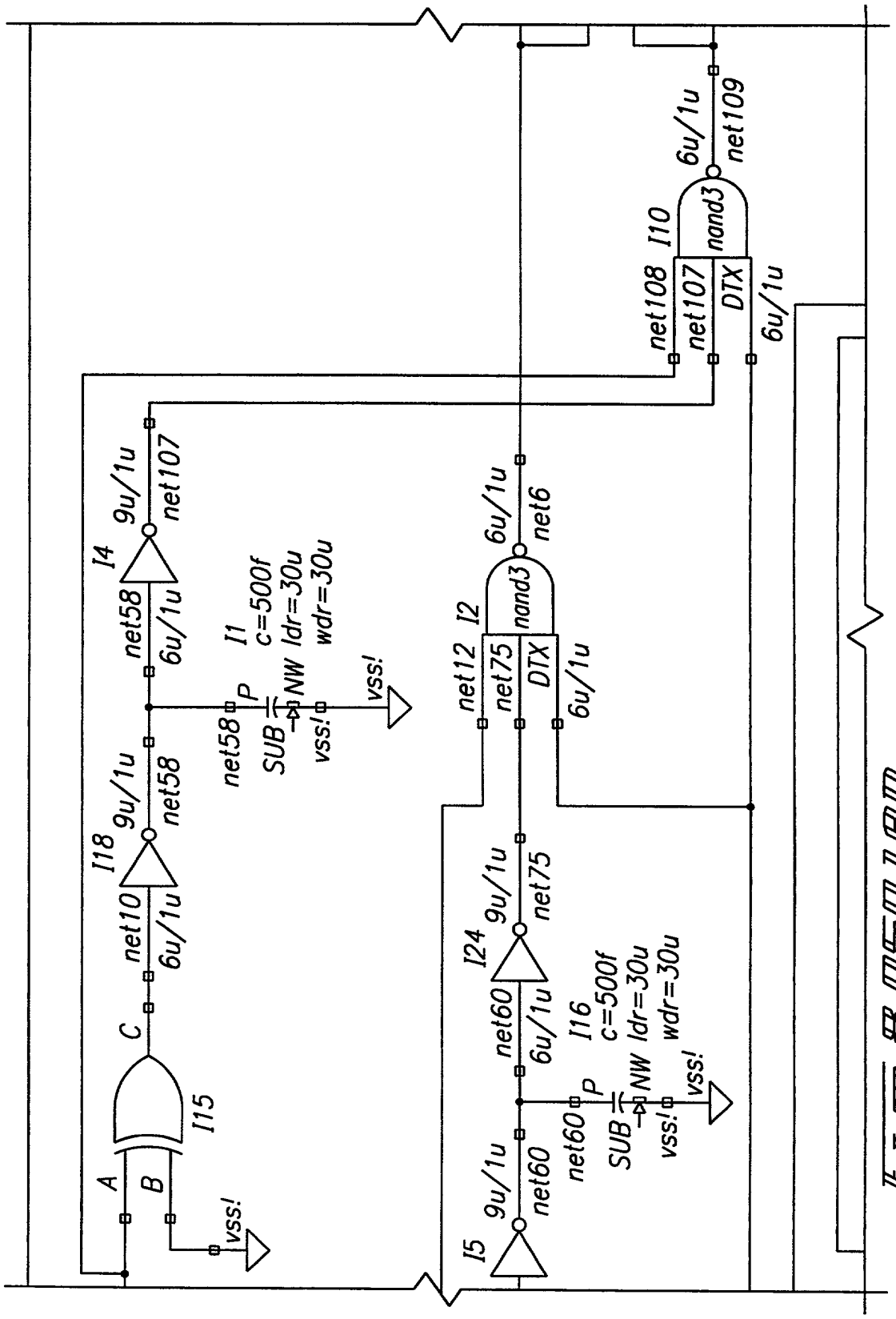
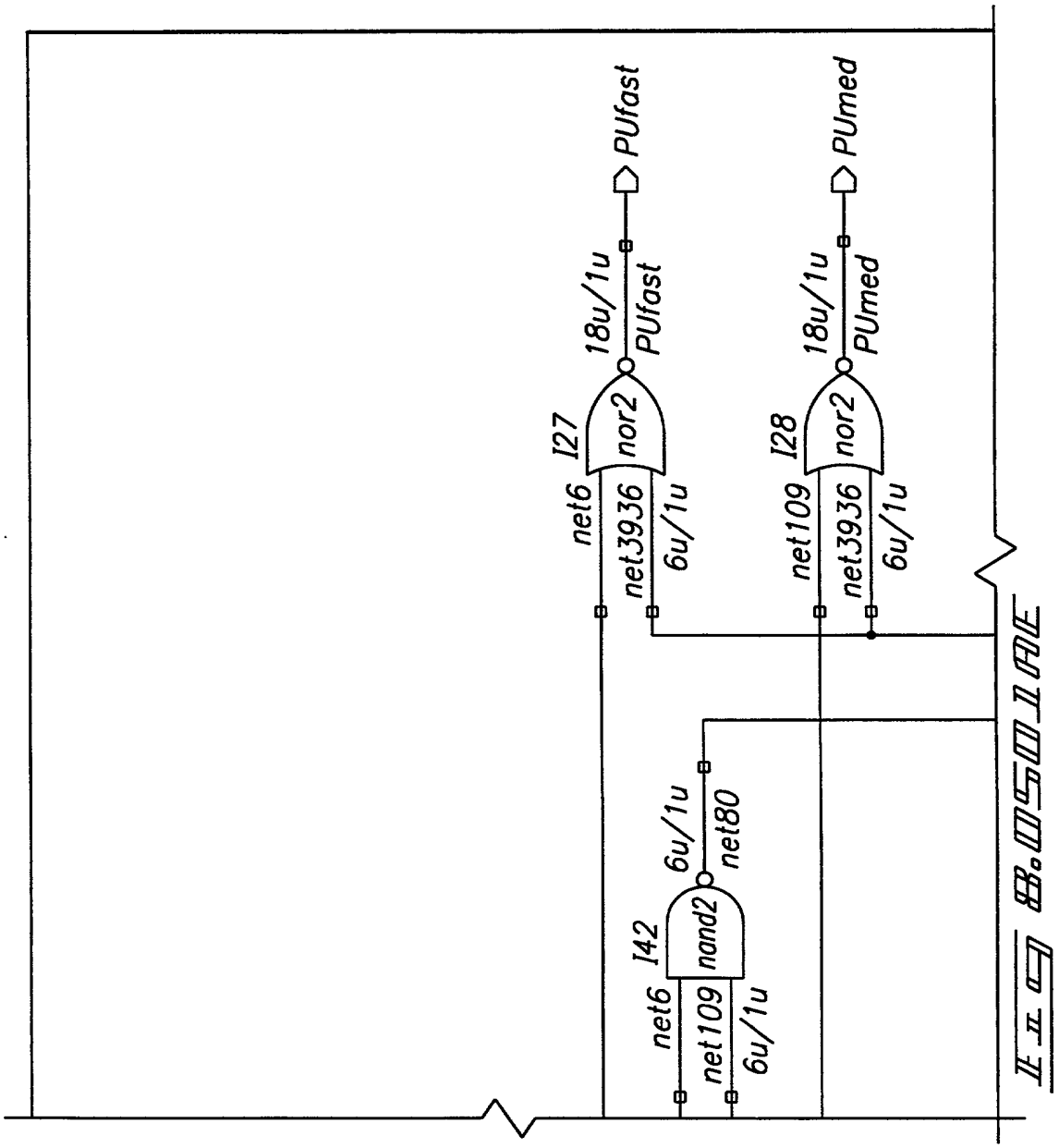
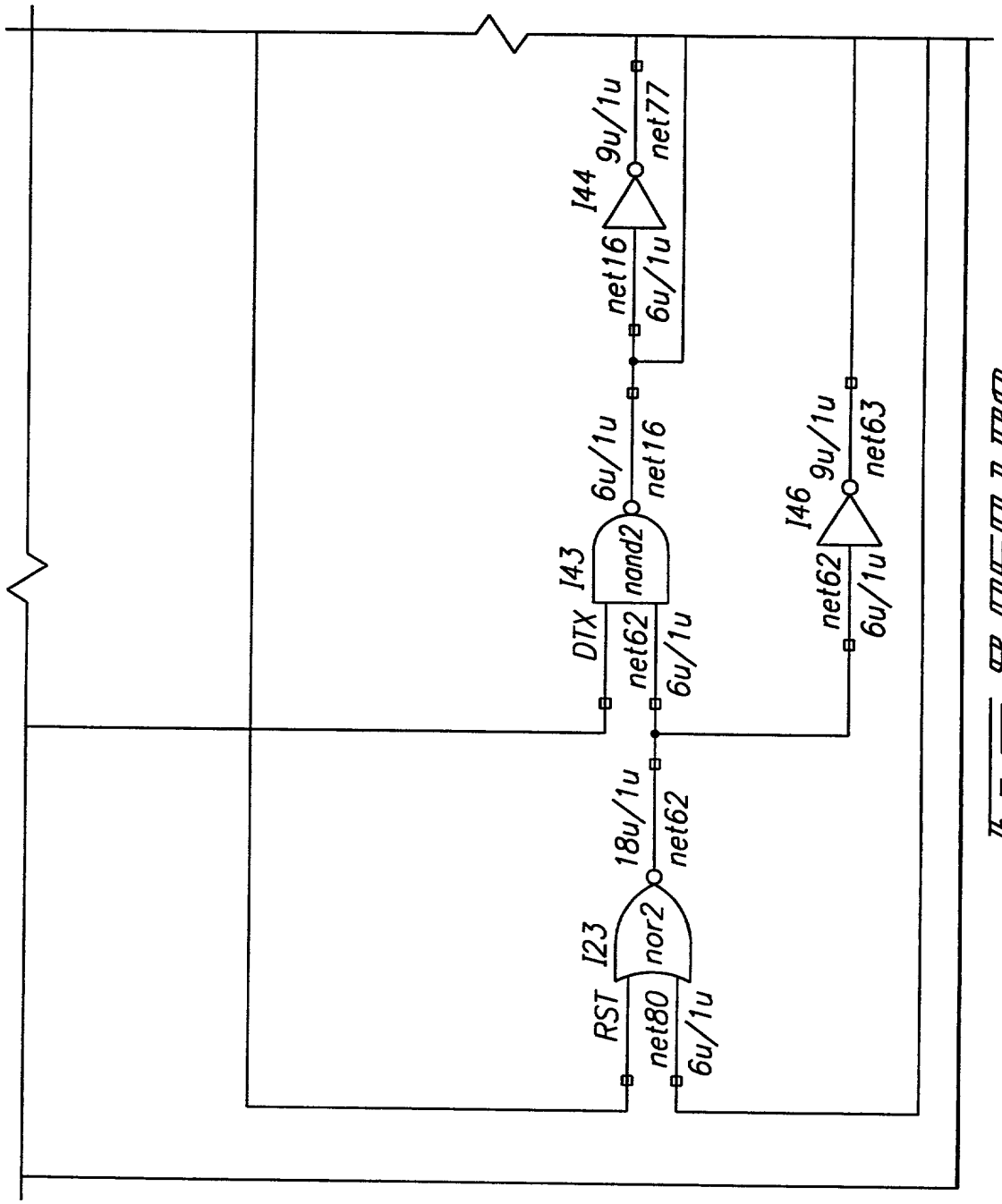

net109
6u/1u
I10
nand3
net108
net107
DTX
6u/1u
6u/1u
net6
I2
nand3
net12
net75
DTX
6u/1u
9u/1u
net107
I4
net58
6u/1u
I1
c=500f
ldr=30u
wdr=30u
P
SUB
NW
vss!
vss!
net58
9u/1u
net58
I18
net10
6u/1u
C
I15
A
B
vss!
9u/1u
net75
I24
net60
6u/1u
I16
c=500f
ldr=30u
wdr=30u
P
SUB
NW
vss!
vss!
net60
9u/1u
net60
I5

FIG 8.0501AD


I27
nor2
18u/1u
PUfast
net6
net3936
6u/1u
I28
nor2
18u/1u
PUmed
net109
net3936
6u/1u
I42
nand2
6u/1u
net80
net6
net109
6u/1u



Фиг. 88.005.11 IBA

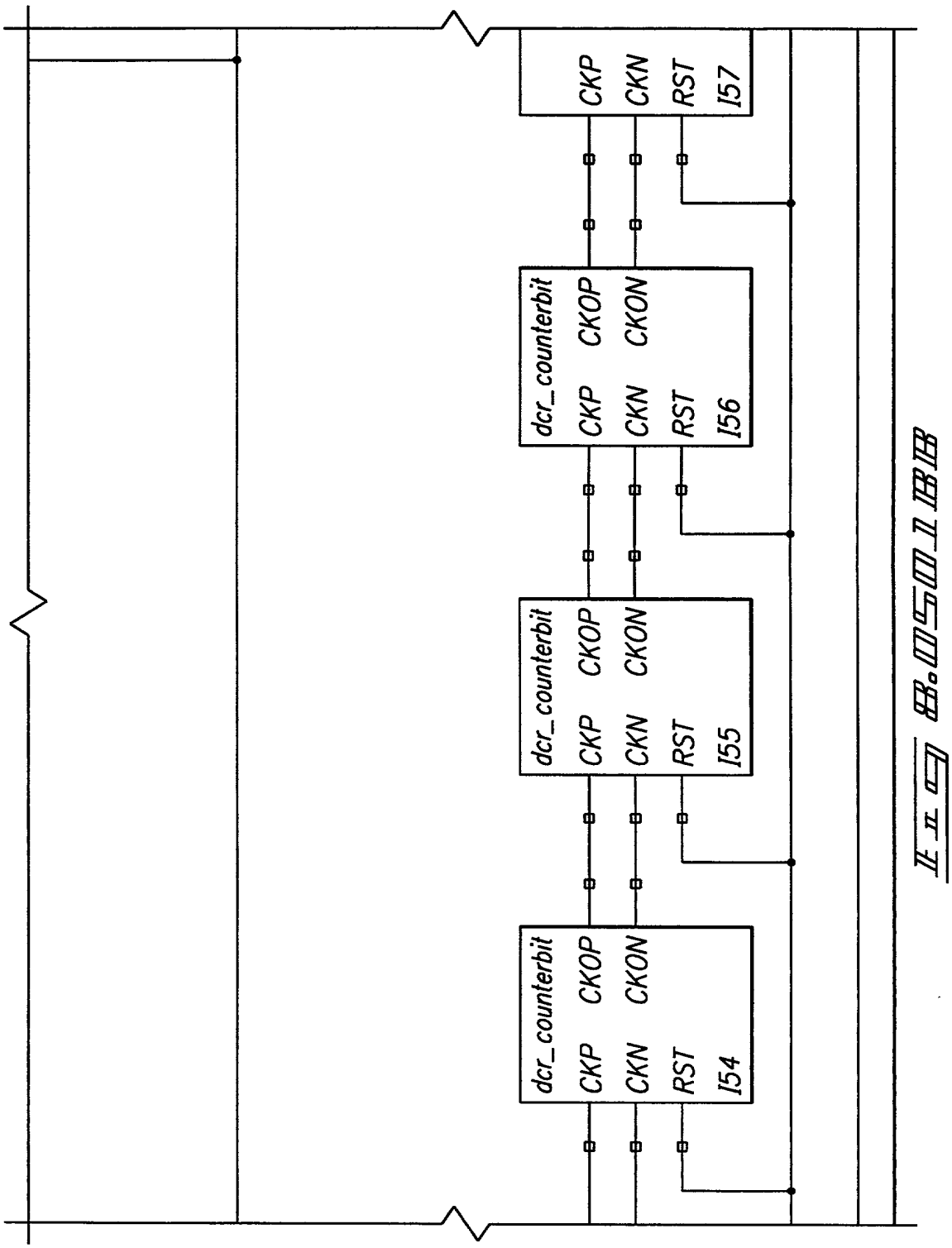


Fig. 8.005 II

US 2005/0264325 A1

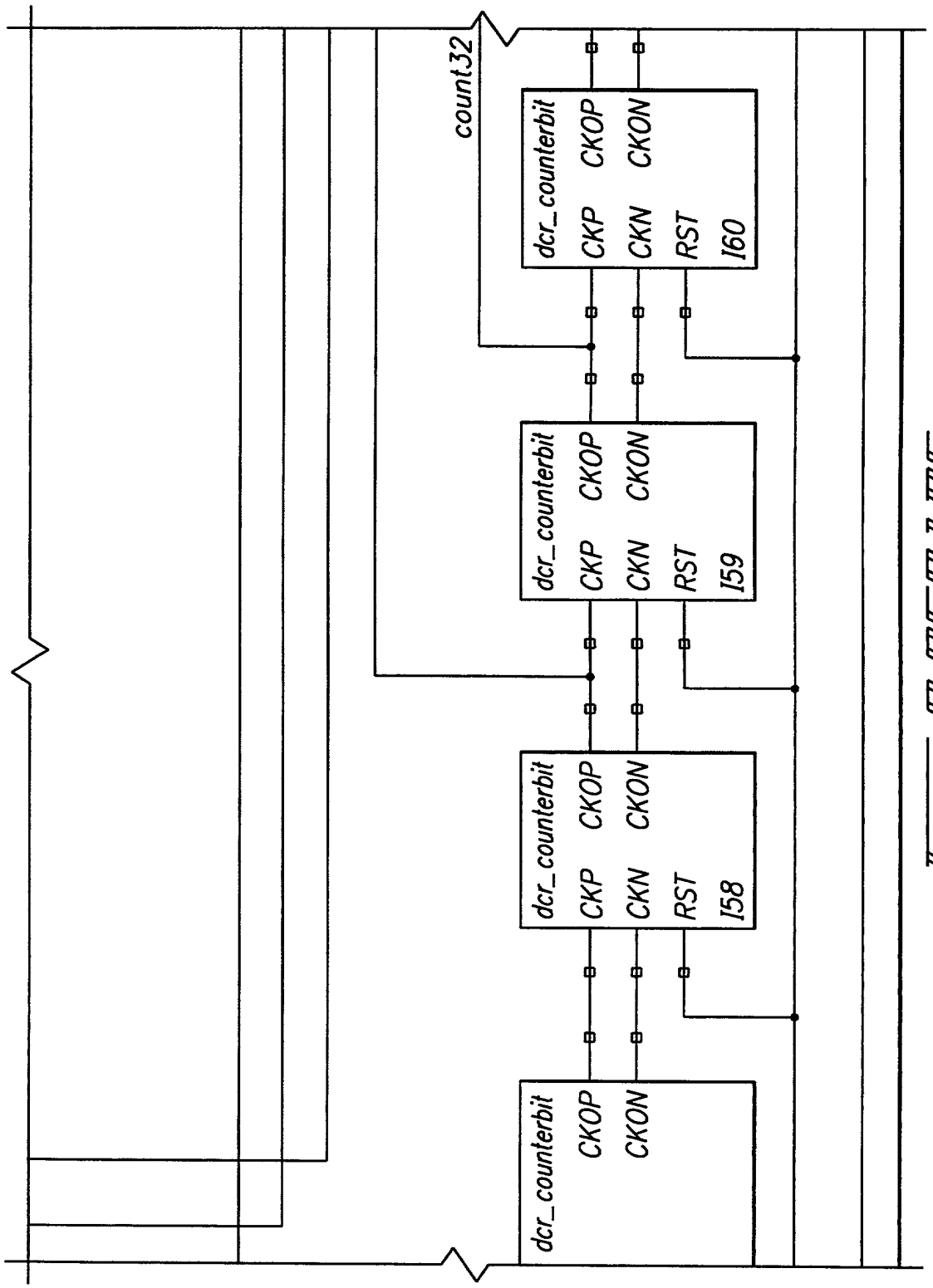
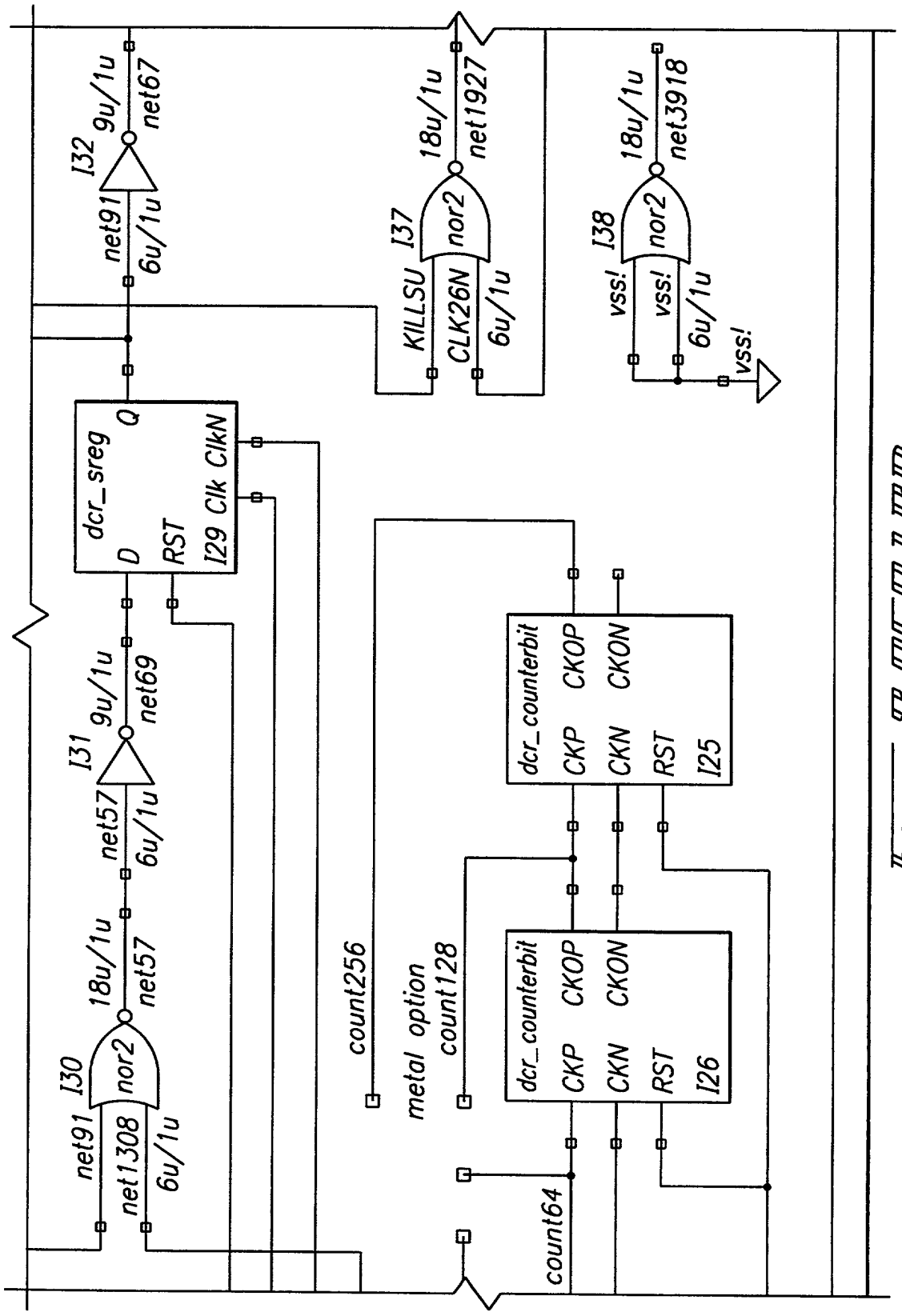
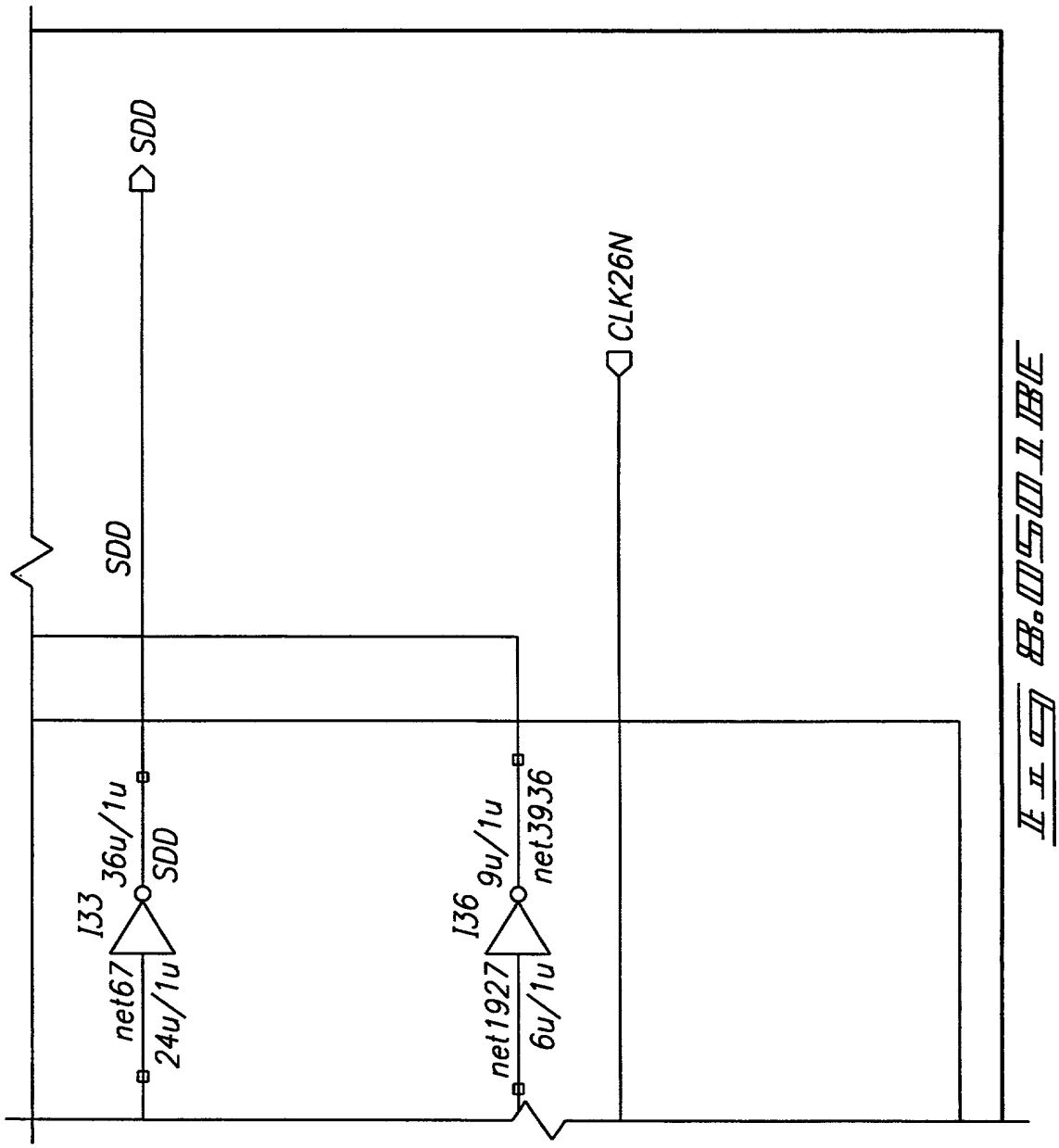


Fig. 88.005 II IBC


I32 9u/1u net67
net91 6u/1u
I37 18u/1u net1927
KILLSU nor2
CLK26N 6u/1u
I38 18u/1u net3918
vss! nor2
vss! 6u/1u
vss!
dcr_sreg Q
D RST I29 Clk ClkN
I31 9u/1u net69
net57 6u/1u
I30 18u/1u net57
net91 nor2
net1308 6u/1u
count256
metal option
count128
dcr_counterbit CKOP CKON
CKP CKN RST I25
dcr_counterbit CKOP CKON
CKP CKN RST I26
count64


SDD
SDD
CLK26N
I33
36u/1u
SDD
net67
24u/1u
I36
9u/1u
net3936
net1927
6u/1u

T0T190*E90228360

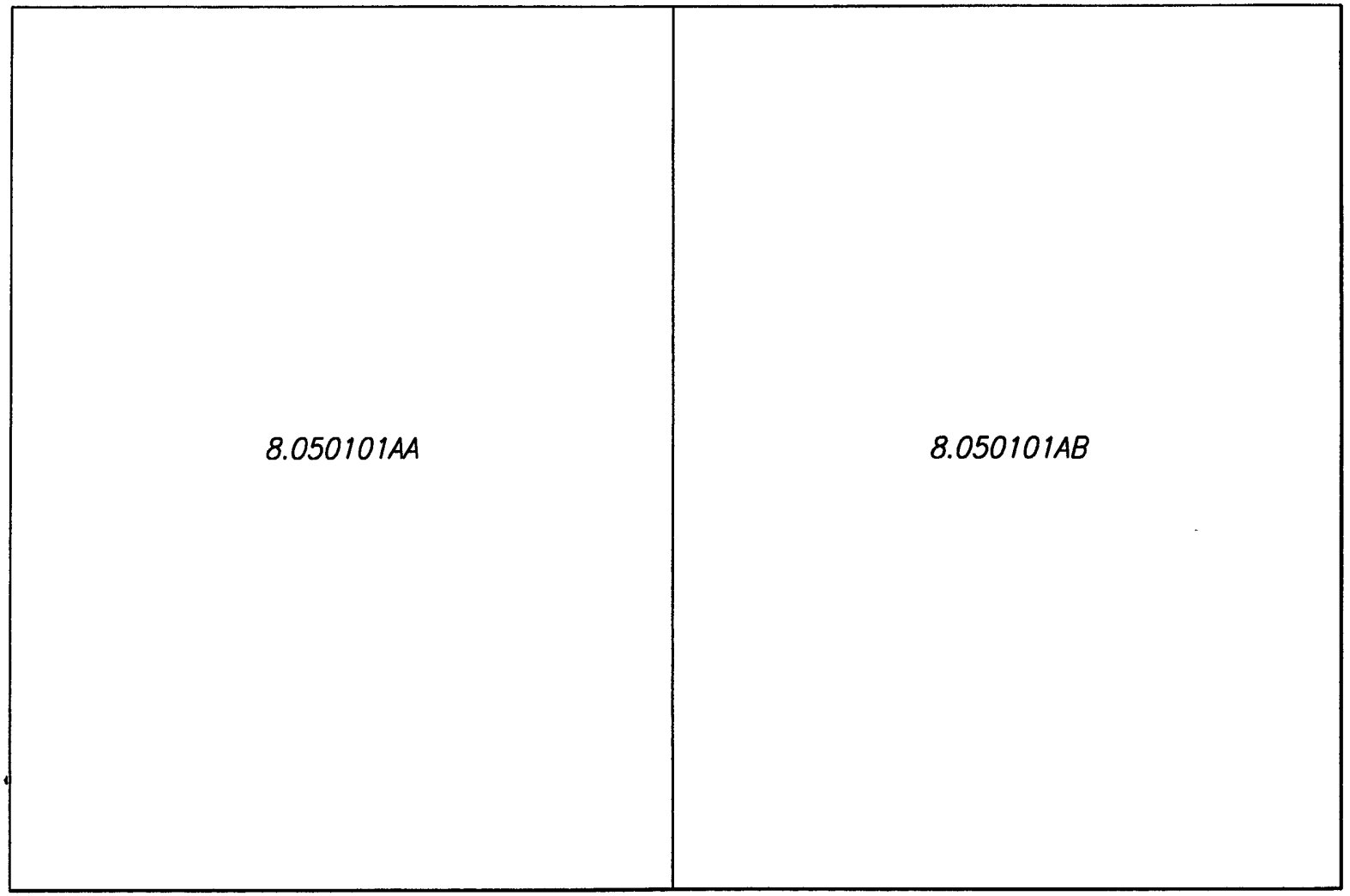
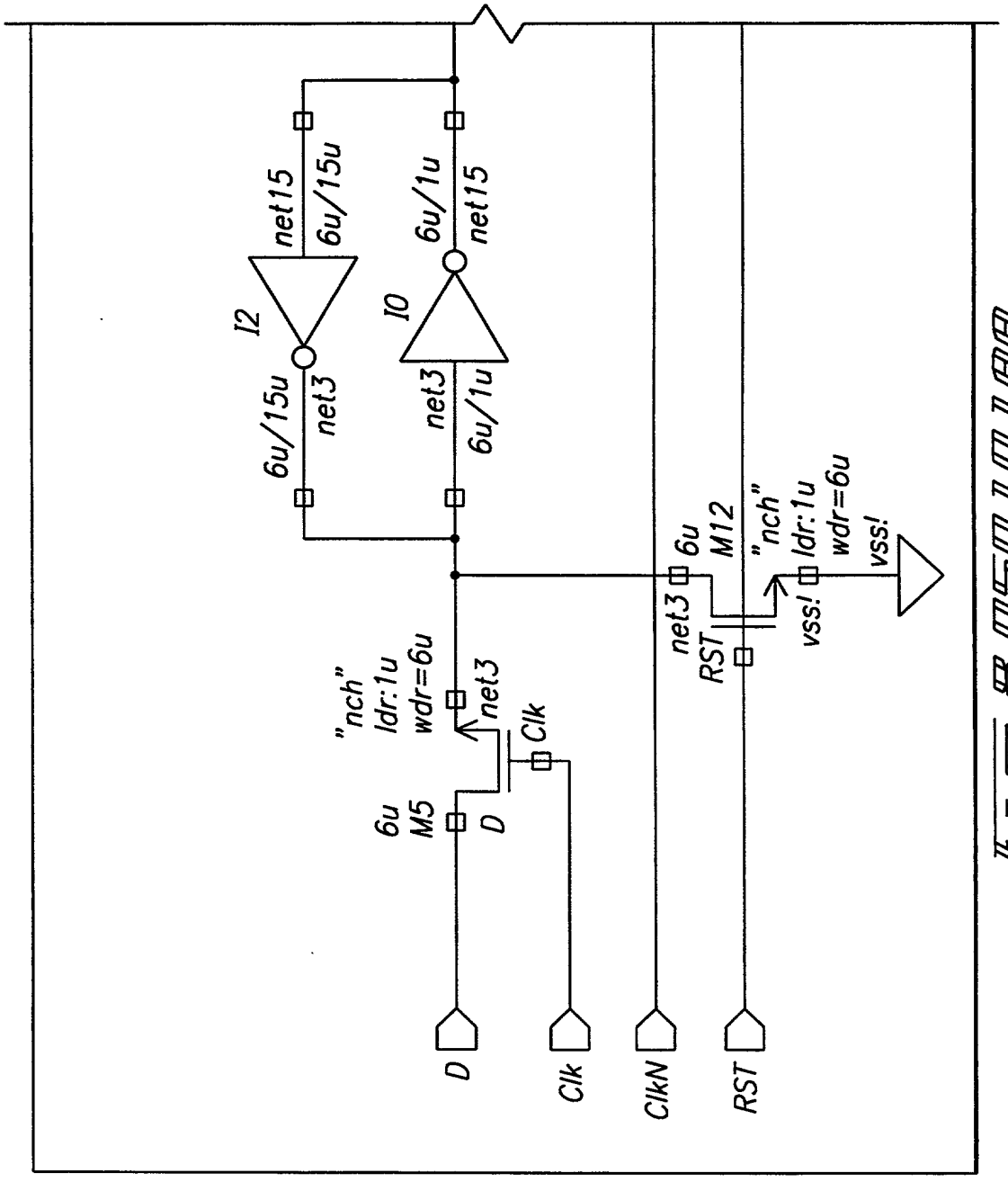
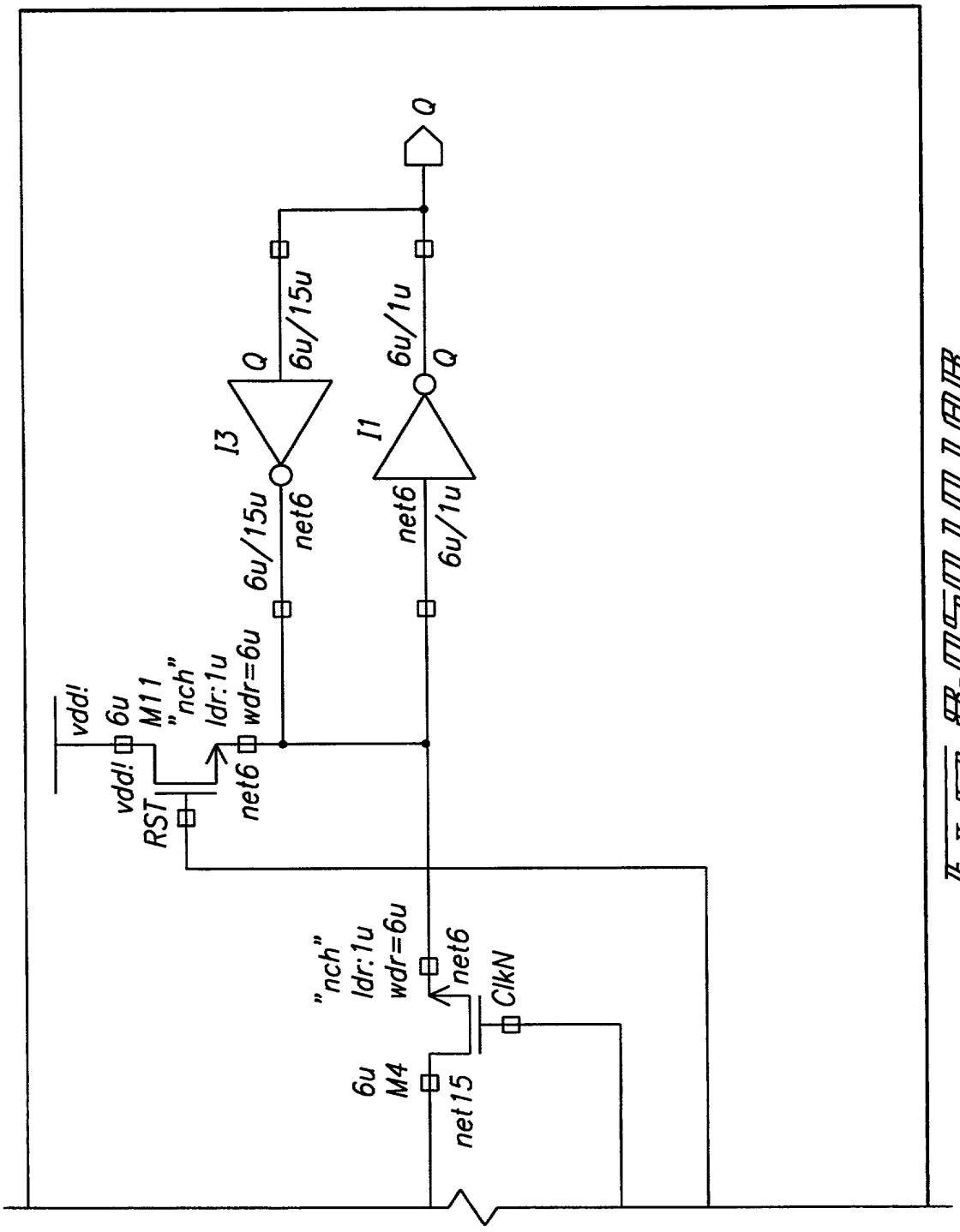


Fig 8.050101



Фиг. 8.0501 ADA



Фиг 8 05011AB

T01T90" E90238G0

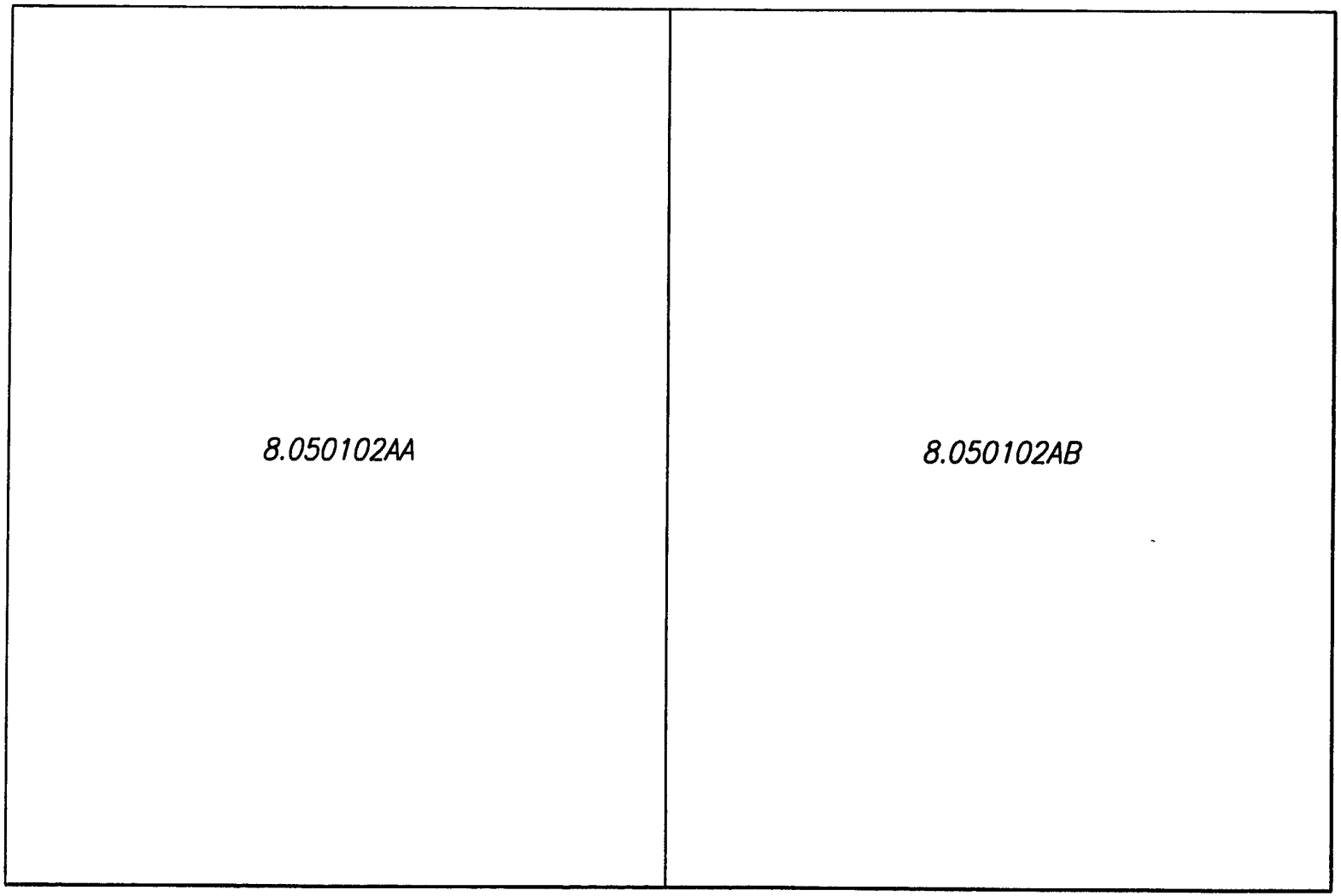
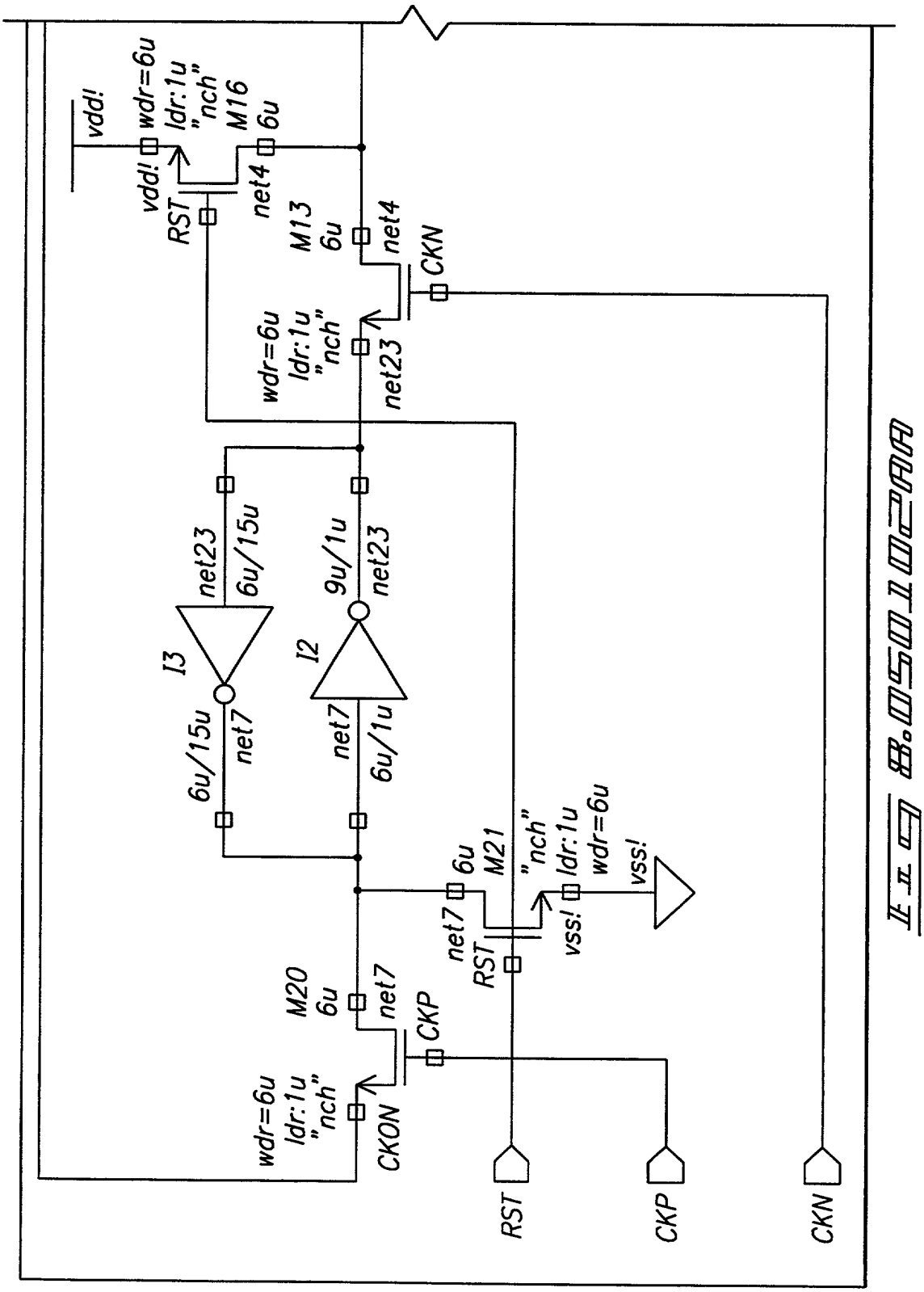
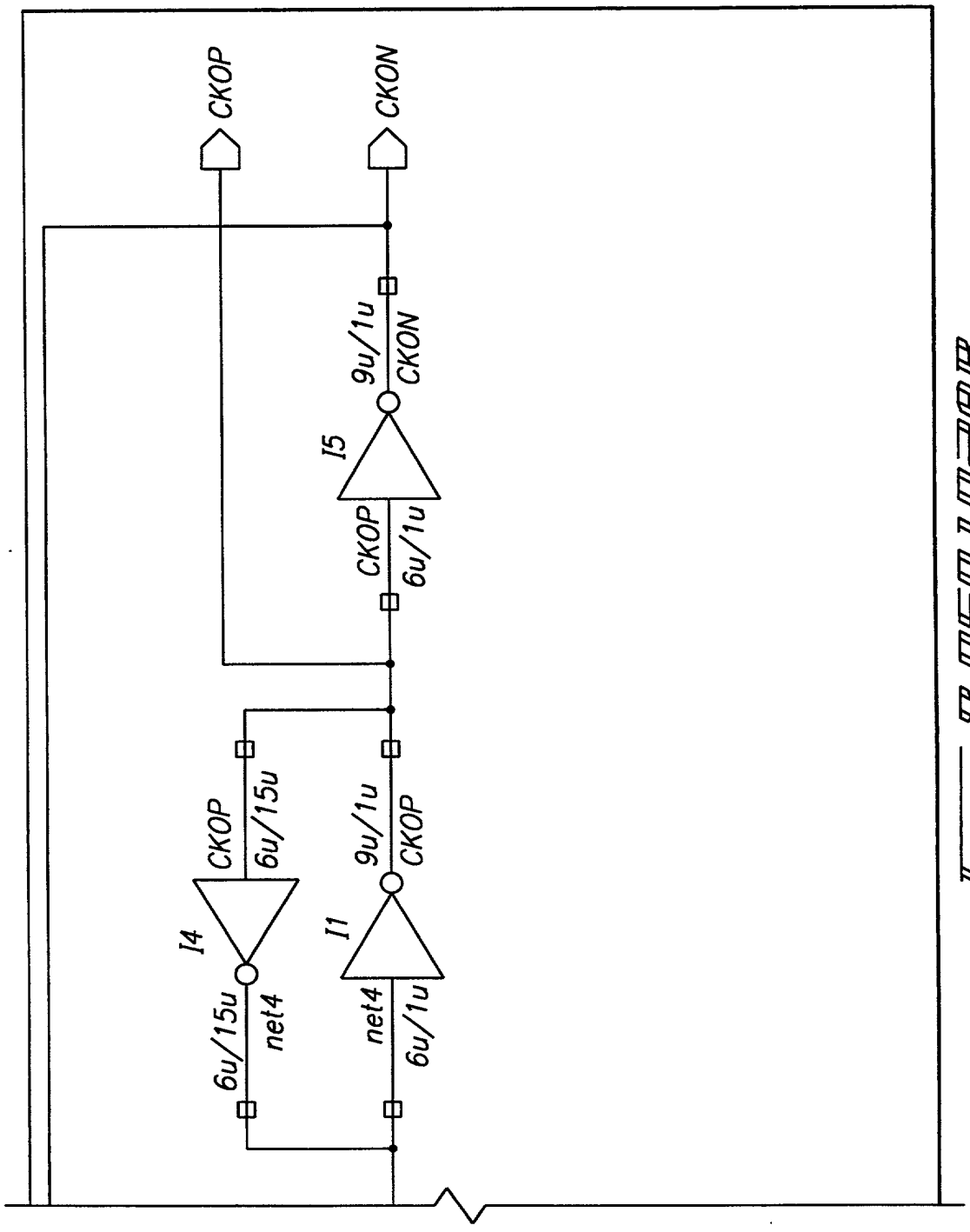


Fig 8.050102



Фиг 8.05012АА

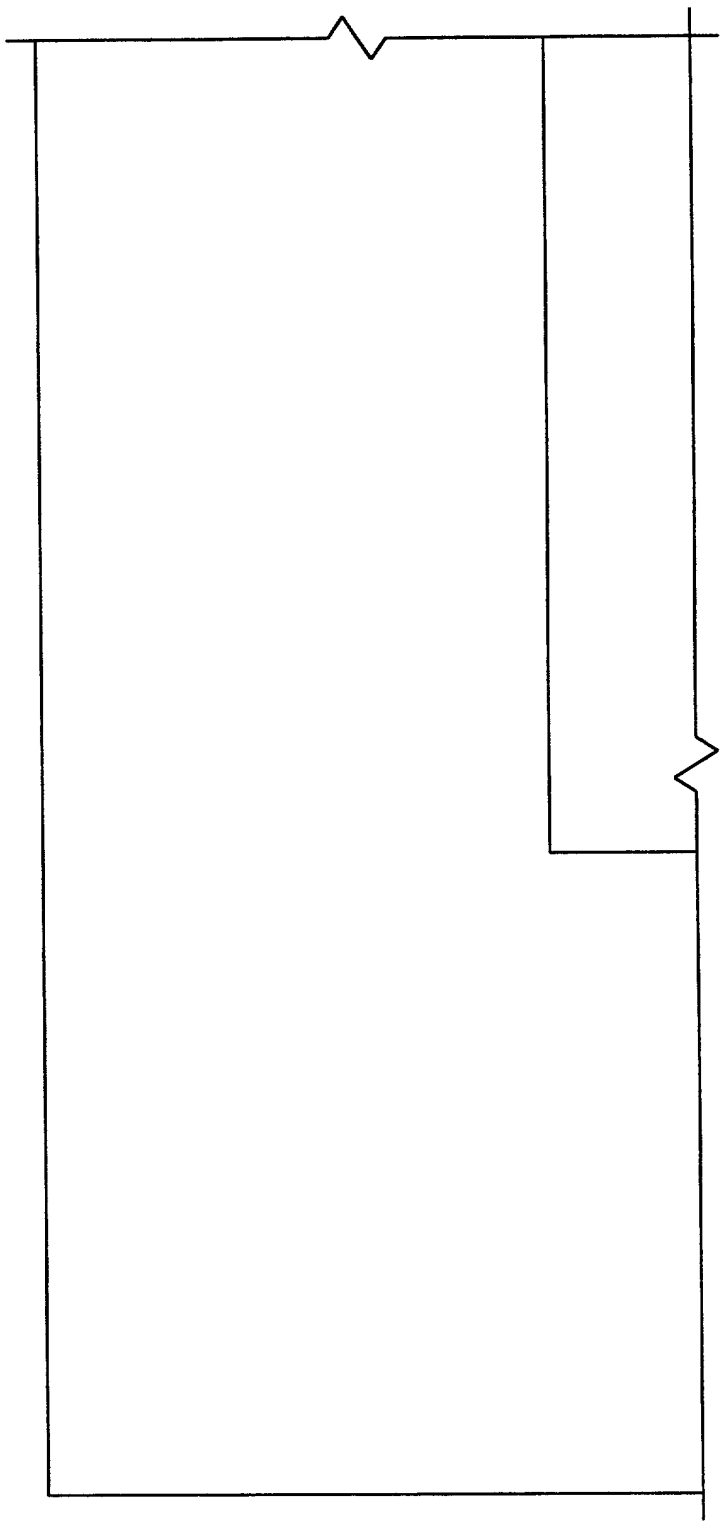


Фиг 8.0501 0.2A1B

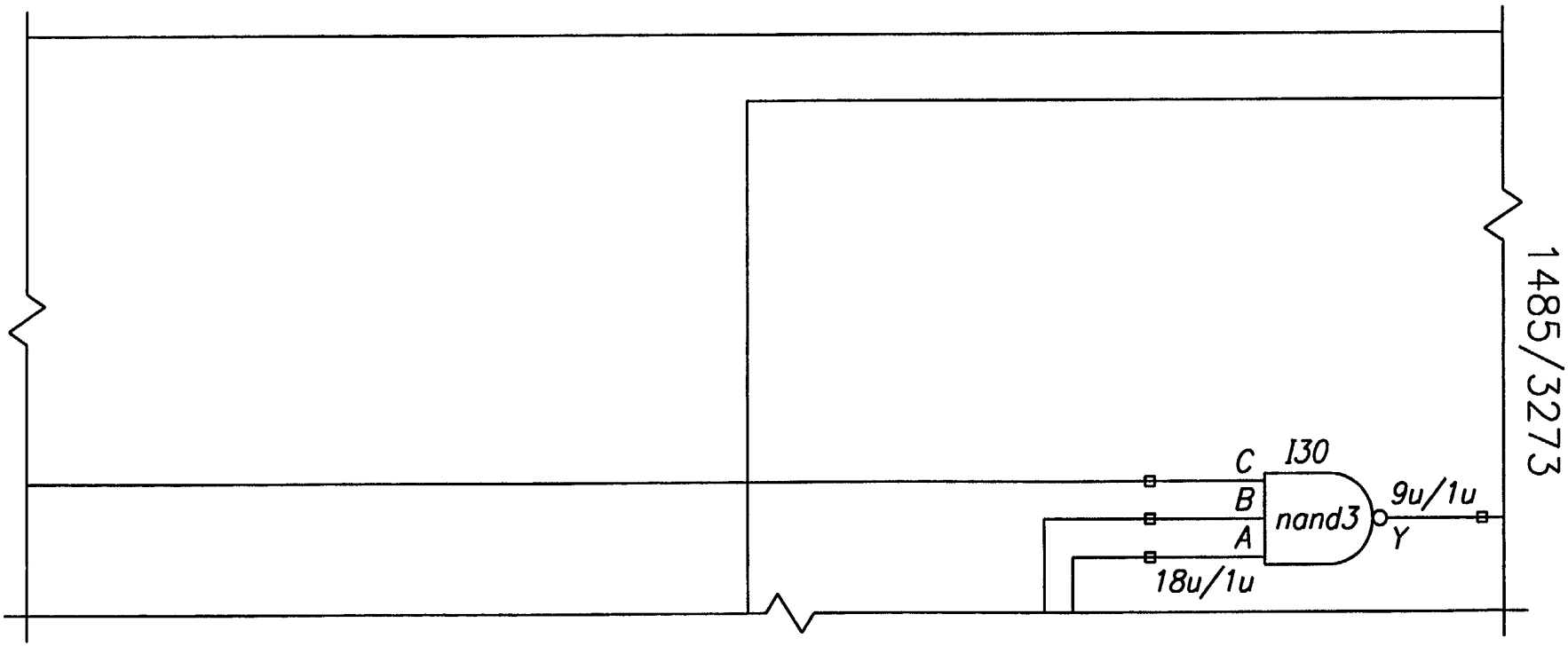
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8.0502BA	8.0502BB	8.0502BC	8.0502BD
8.0502CA	8.0502CB	8.0502CC	8.0502CD

Fig 8.0502

1484/3273



TOTT90 "E9032860



Eq 8.0502AB

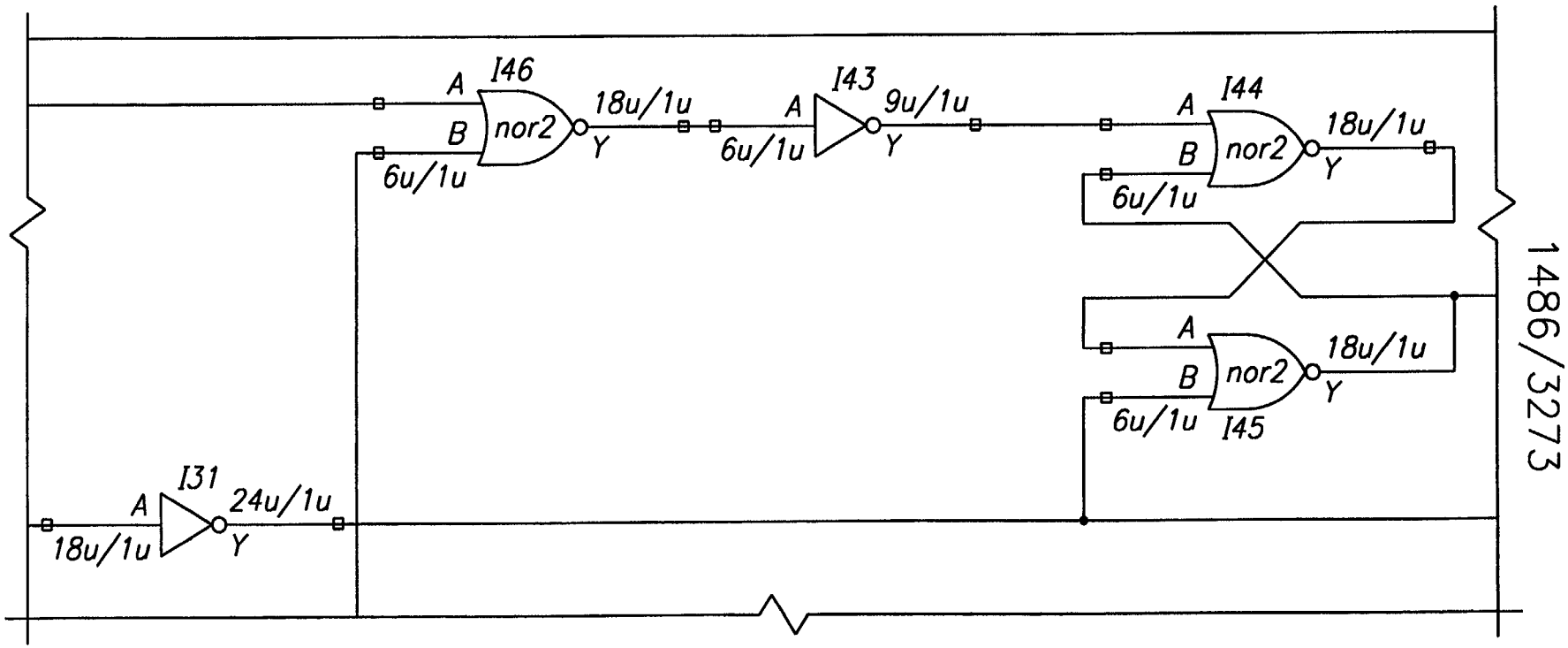

I46
A
B
nor2
Y
18u/1u
6u/1u
I43
A
Y
9u/1u
6u/1u
I44
A
B
nor2
Y
18u/1u
6u/1u
I45
A
B
nor2
Y
18u/1u
6u/1u
I31
A
Y
24u/1u
18u/1u
1486/3273

Fig 8.0502AC

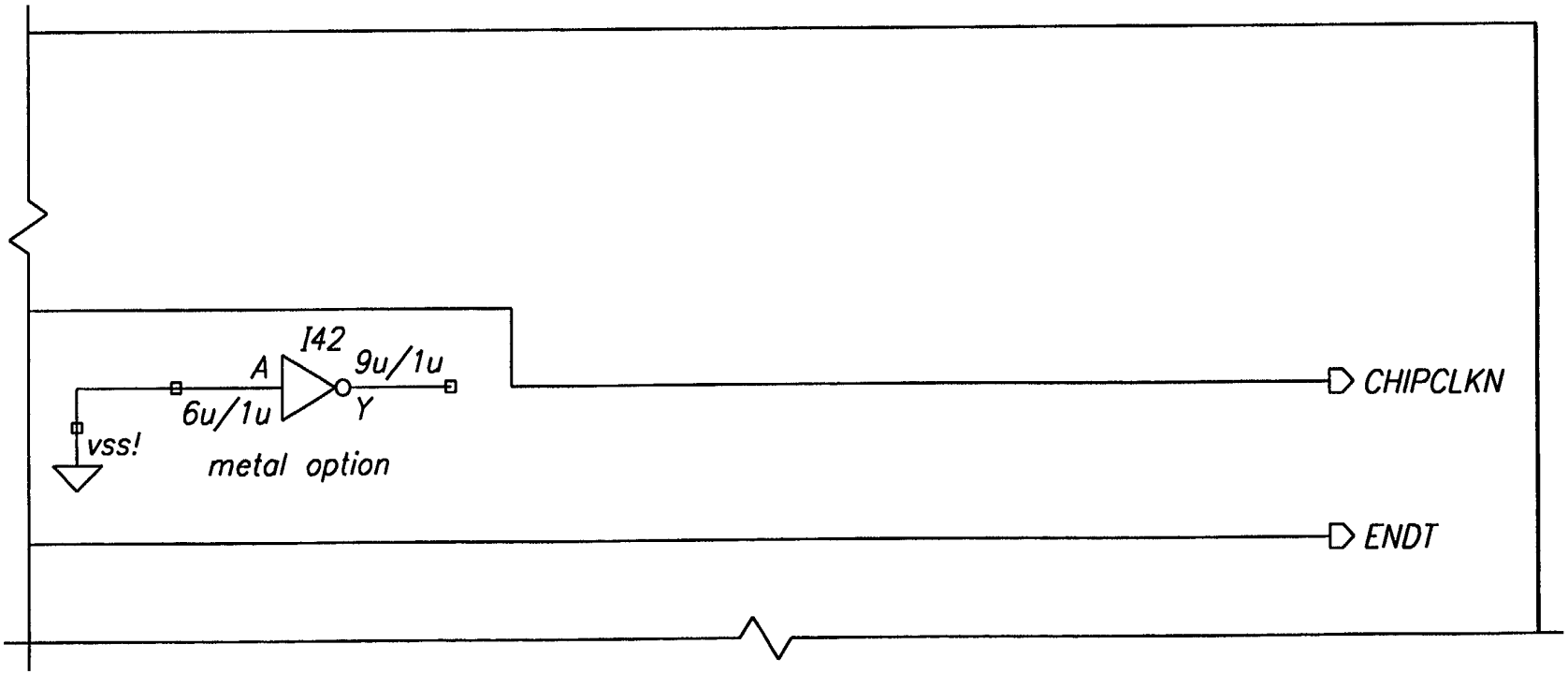
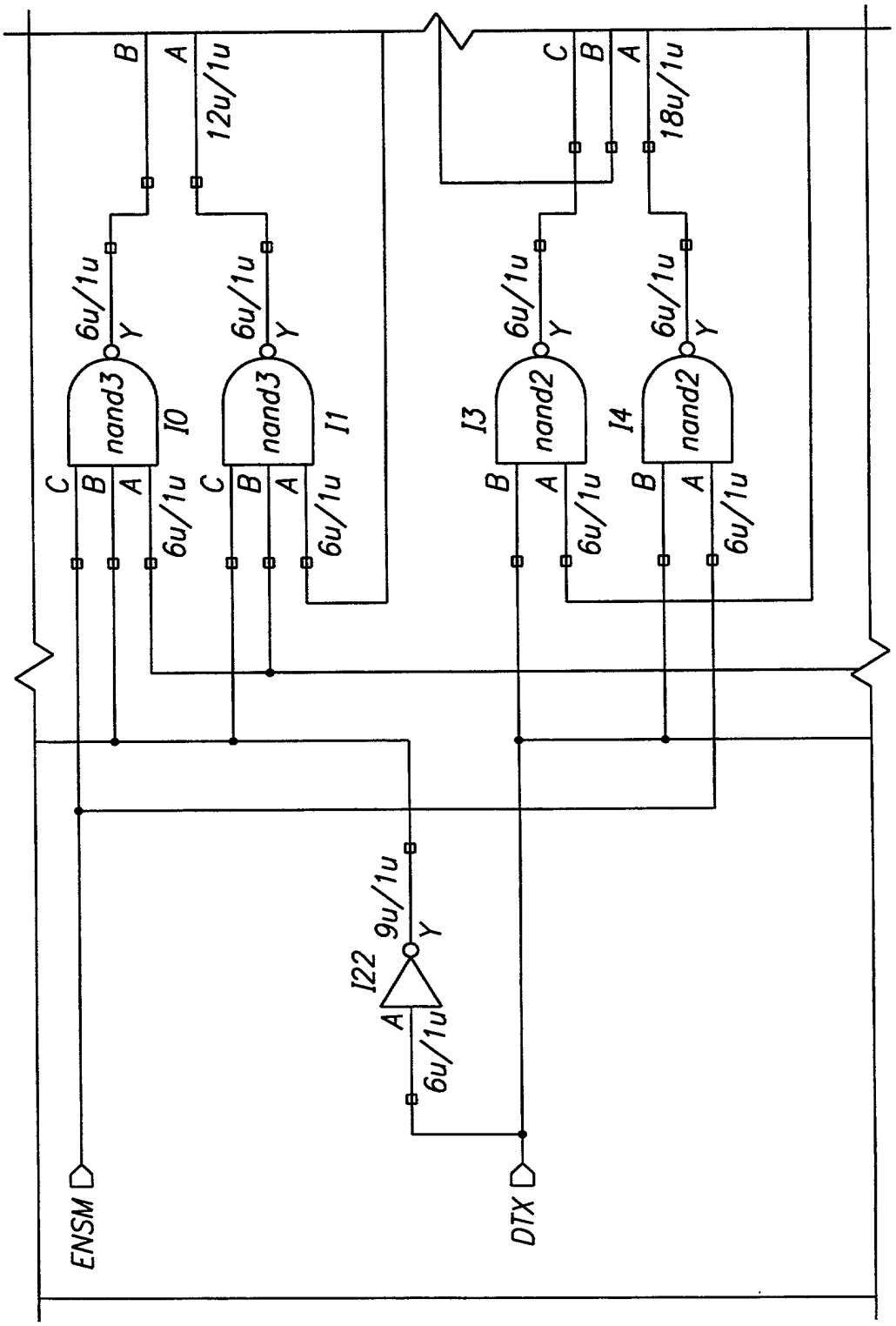
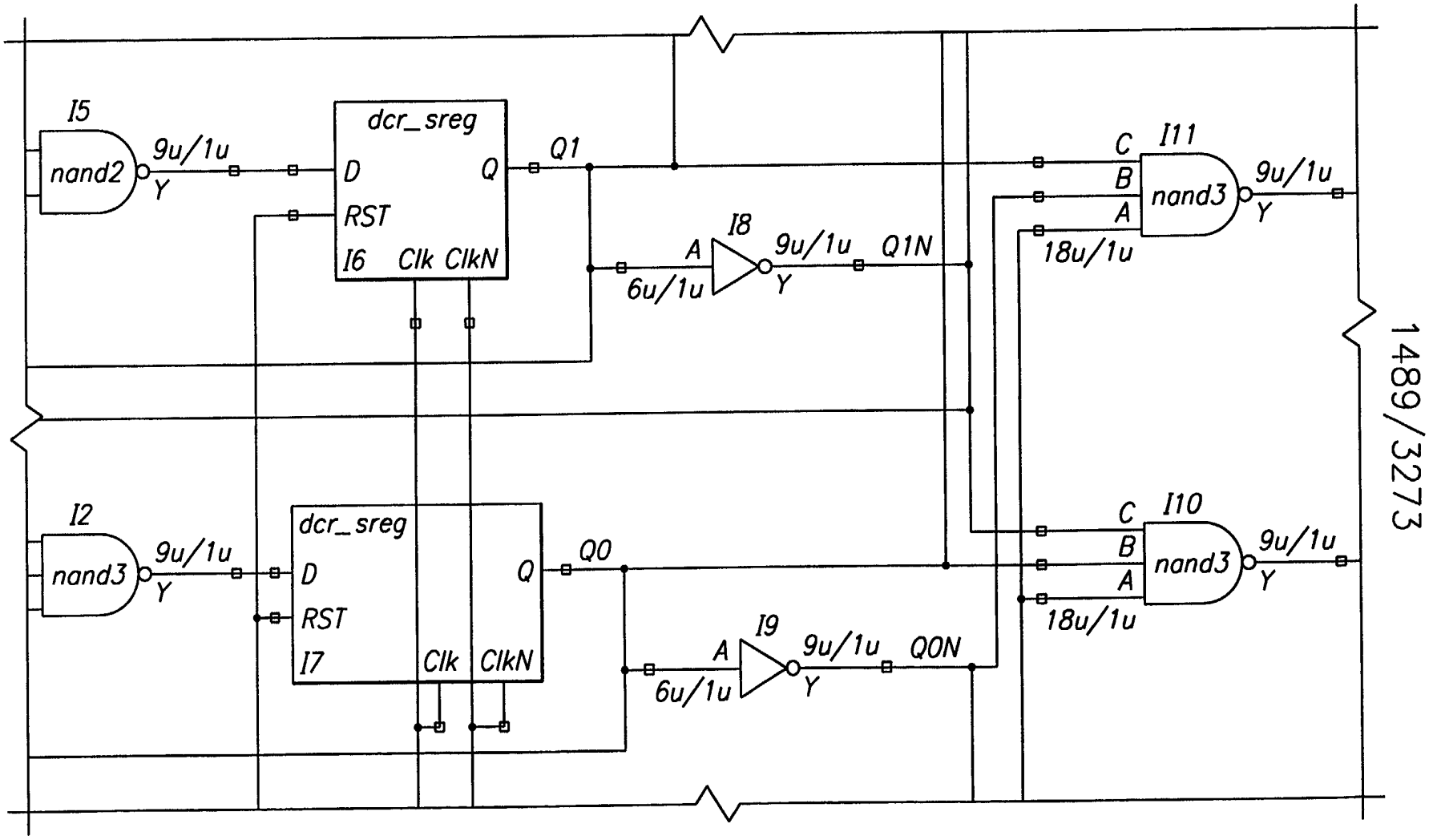


Fig 8.050200



Фиг 8.05072BA



Фиг 8.005028В

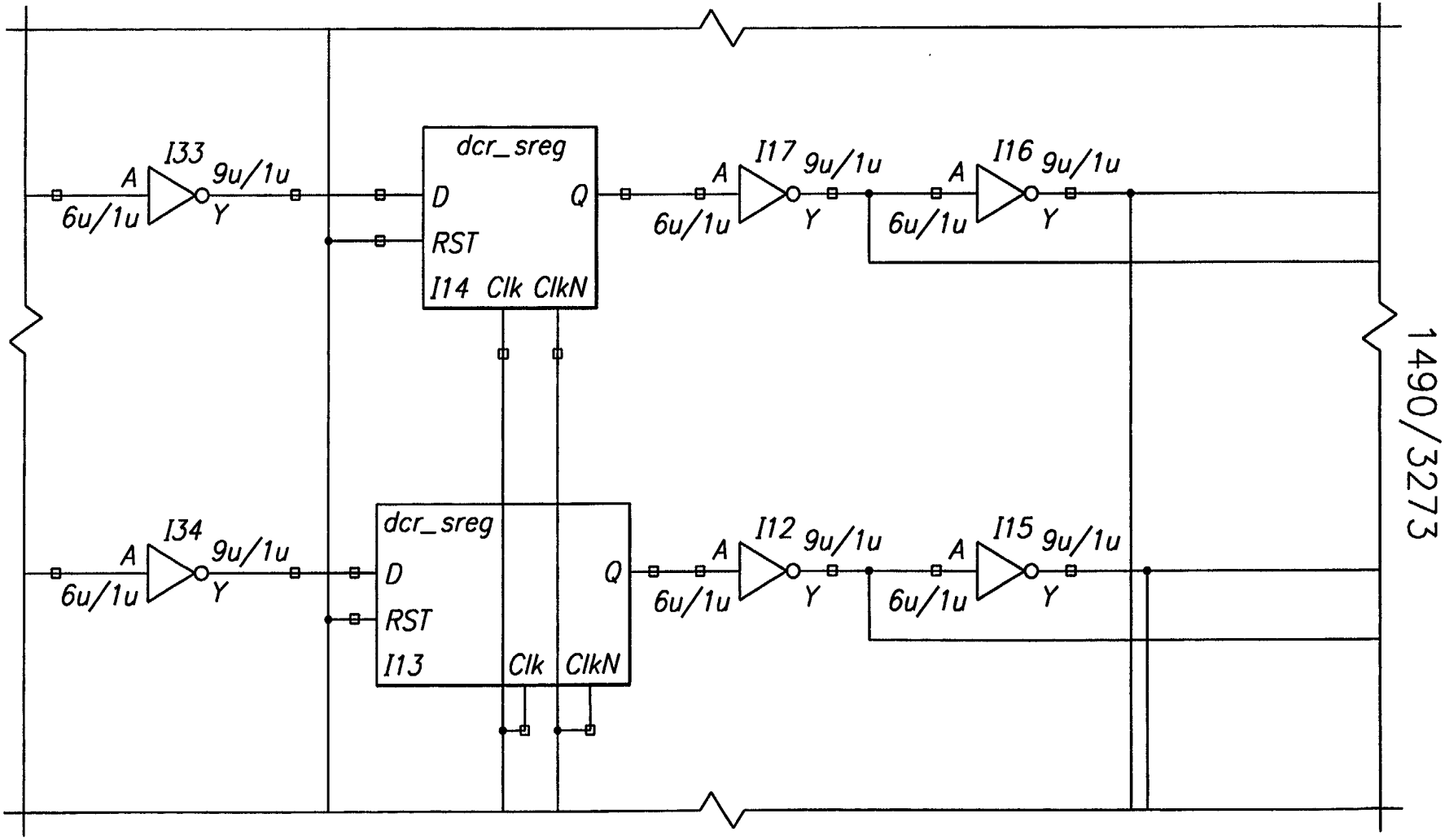

dcr_sreg
D
Q
RST
I14 Clk ClkN
I33
A
9u/1u
6u/1u
Y
I17
I16
I34
I12
I15
dcr_sreg
D
Q
RST
I13 Clk ClkN
1490/3273

Fig 8.0502BC

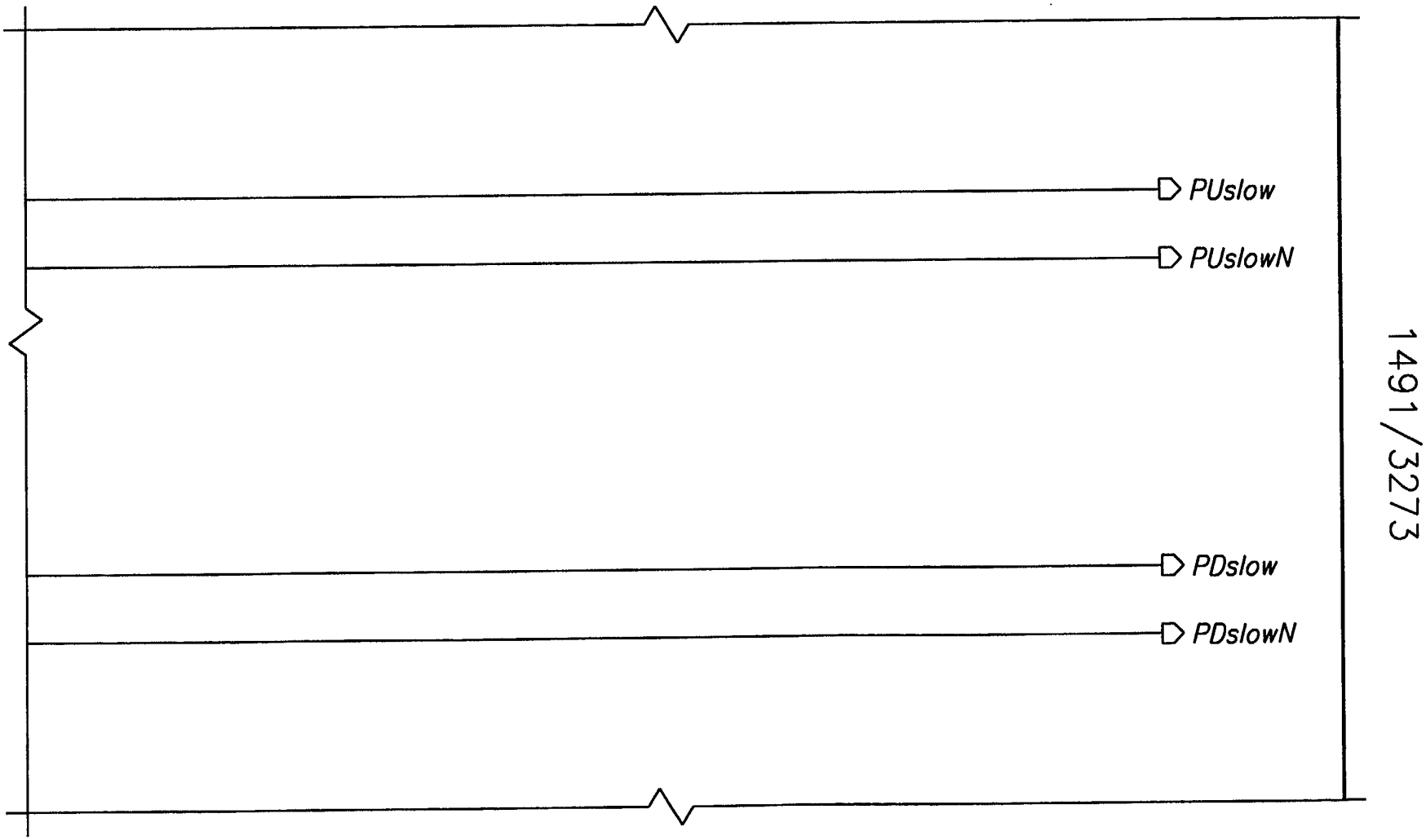
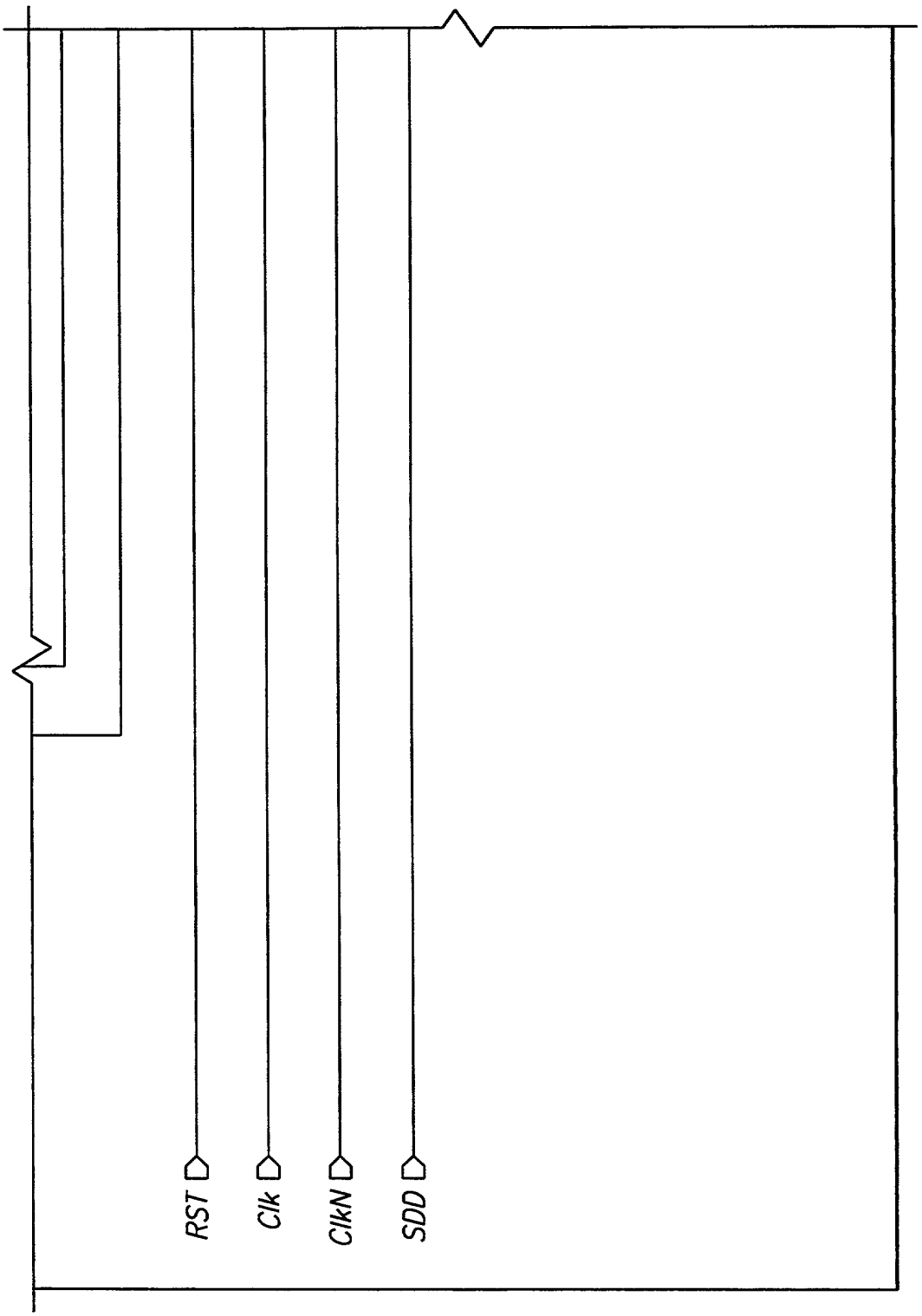


Fig 8.050280

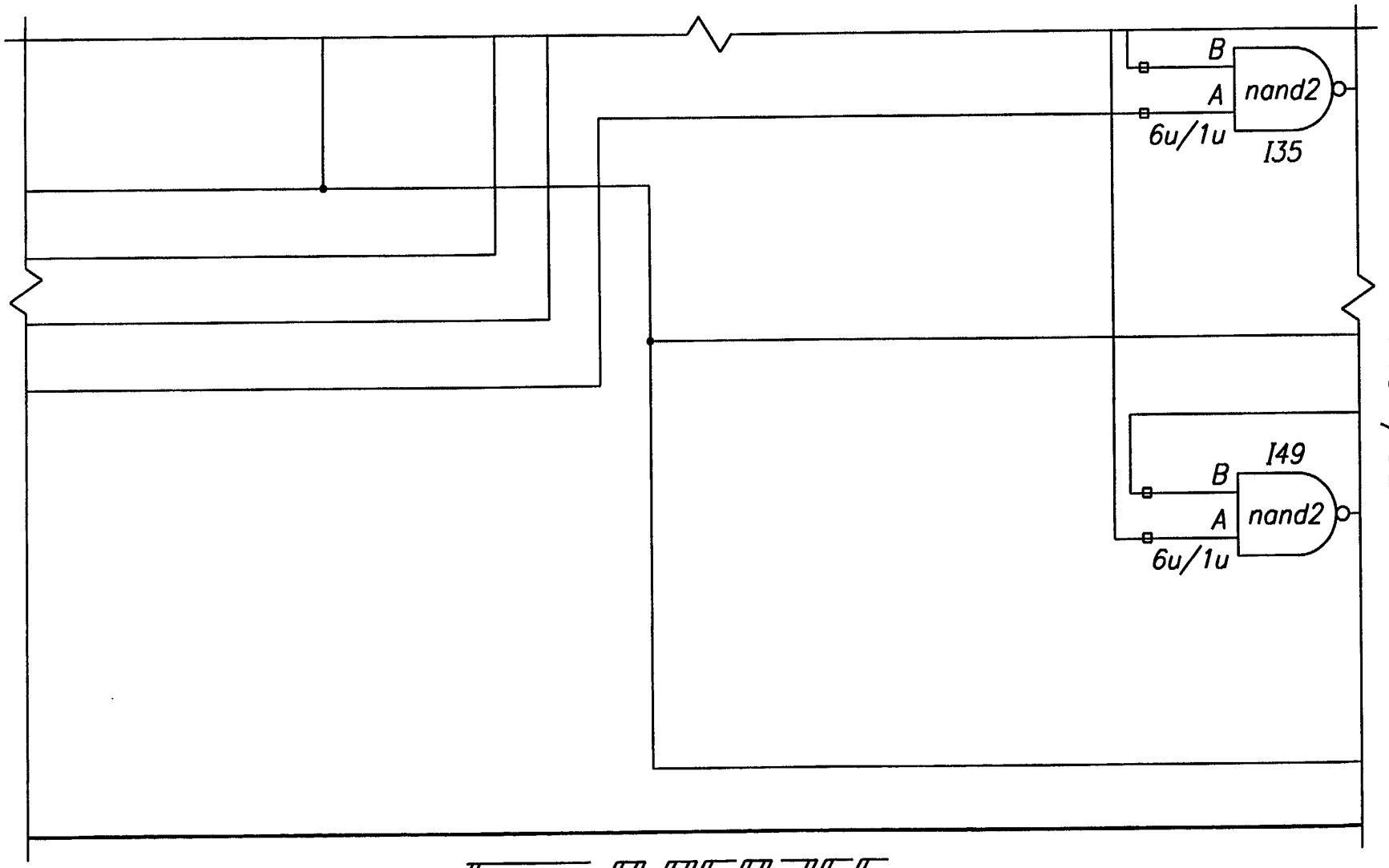

RST
Clk
ClkN
SDD
ATR8050A

1493/3273

Лист 8.050218

Перепеч. 6.5.2.2.2

T0CT90" ES0828360



Eq 8.0502CC

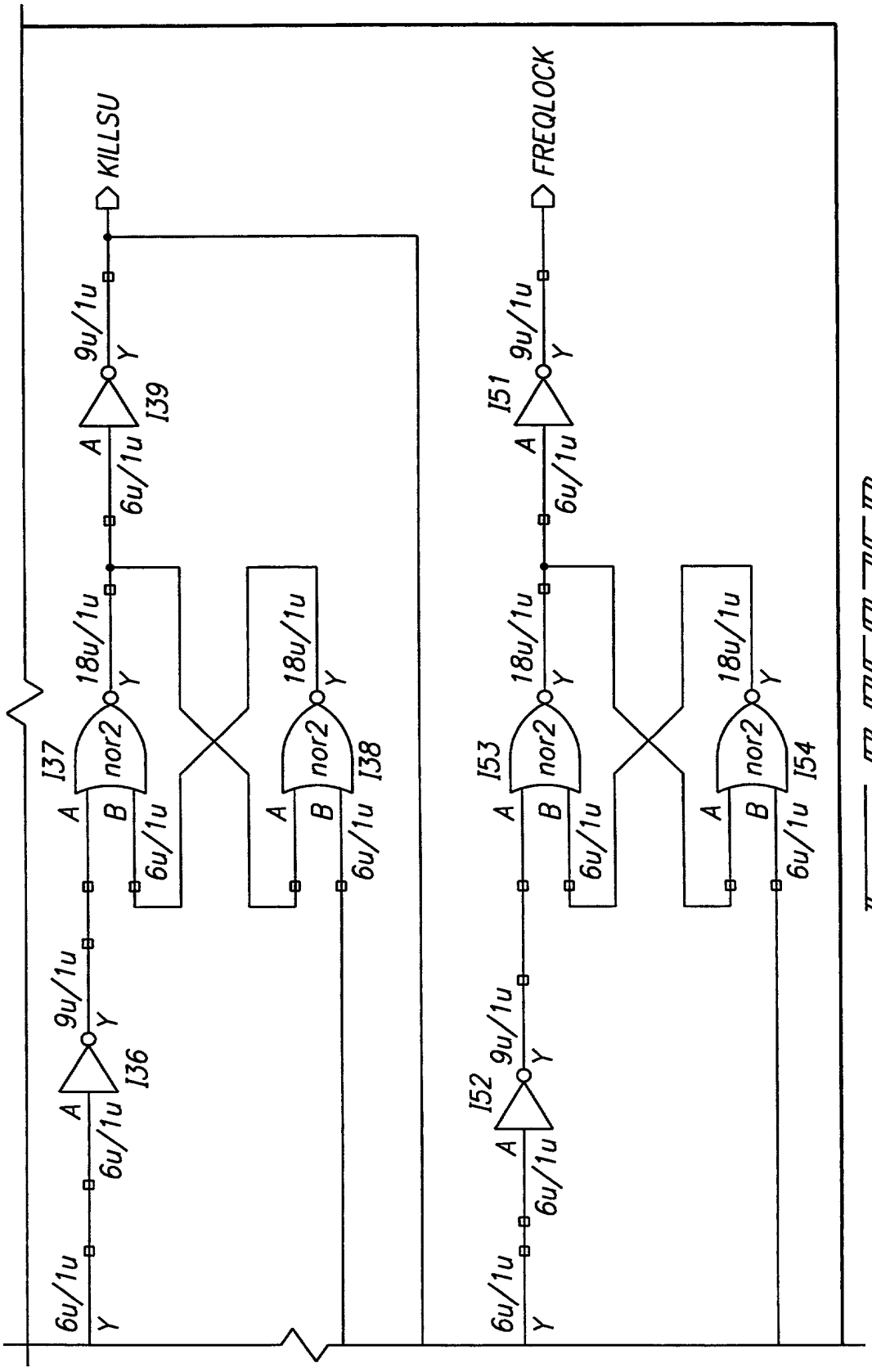


FIG 88.0520.0

PCT/US01/22860

8.0503AA	8.0503AB	8.0503AC	8.0503AD	8.0503AE	8.0503AF	8.0503AG	8.0503AH	8.0503AI	8.0503AJ	8.0503AK	8.0503AL	8.0503AM	8.0503AN	8.0503AO
8.0503BA	8.0503BB	8.0503BC	8.0503BD	8.0503BE	8.0503BF	8.0503BG	8.0503BH	8.0503BI	8.0503BJ	8.0503BK	8.0503BL	8.0503BM	8.0503BN	8.0503BO
8.0503CA	8.0503CB	8.0503CC	8.0503CD	8.0503CE	8.0503CF	8.0503CG	8.0503CH	8.0503CI	8.0503CJ	8.0503CK	8.0503CL	8.0503CM	8.0503CN	8.0503CO
8.0503DA	8.0503DB	8.0503DC	8.0503DD	8.0503DE	8.0503DF	8.0503DG	8.0503DH	8.0503DI	8.0503DJ	8.0503DK	8.0503DL	8.0503DM	8.0503DN	8.0503DO
8.0503EA	8.0503EB	8.0503EC	8.0503ED	8.0503EE	8.0503EF	8.0503EG	8.0503EH	8.0503EI	8.0503EJ	8.0503EK	8.0503EL	8.0503EM	8.0503EN	
8.0503FA	8.0503FB	8.0503FC	8.0503FD	8.0503FE	8.0503FF	8.0503FG	8.0503FH	8.0503FI	8.0503FJ	8.0503FK	8.0503FL	8.0503FM	8.0503FN	

Fig 8.0503

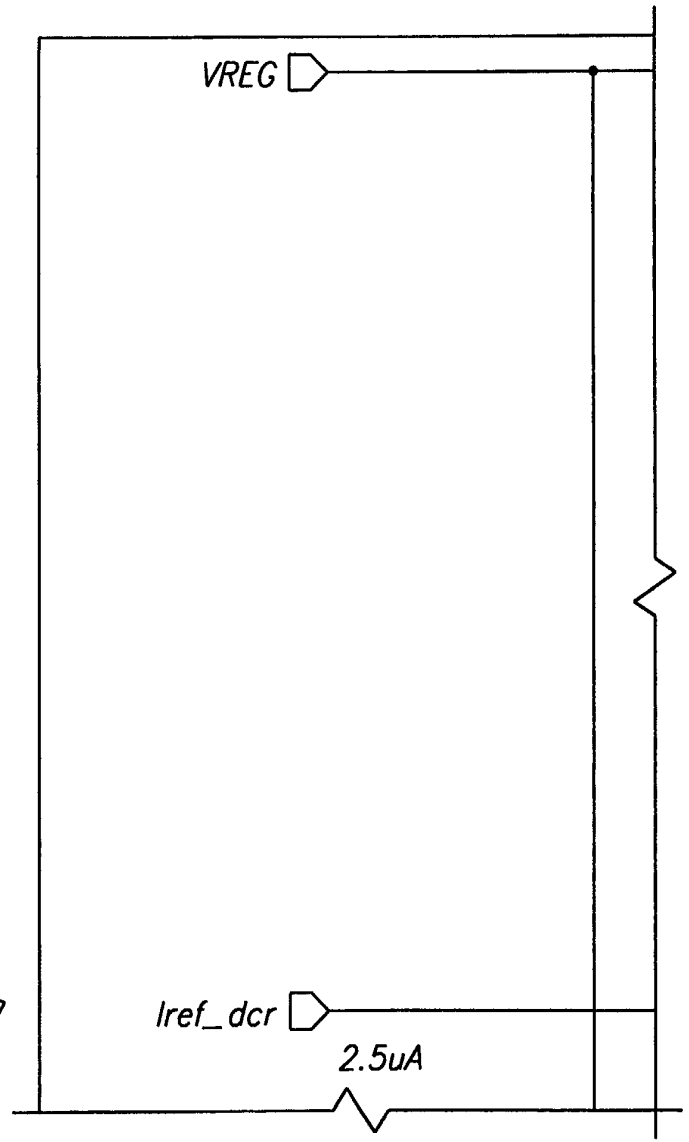
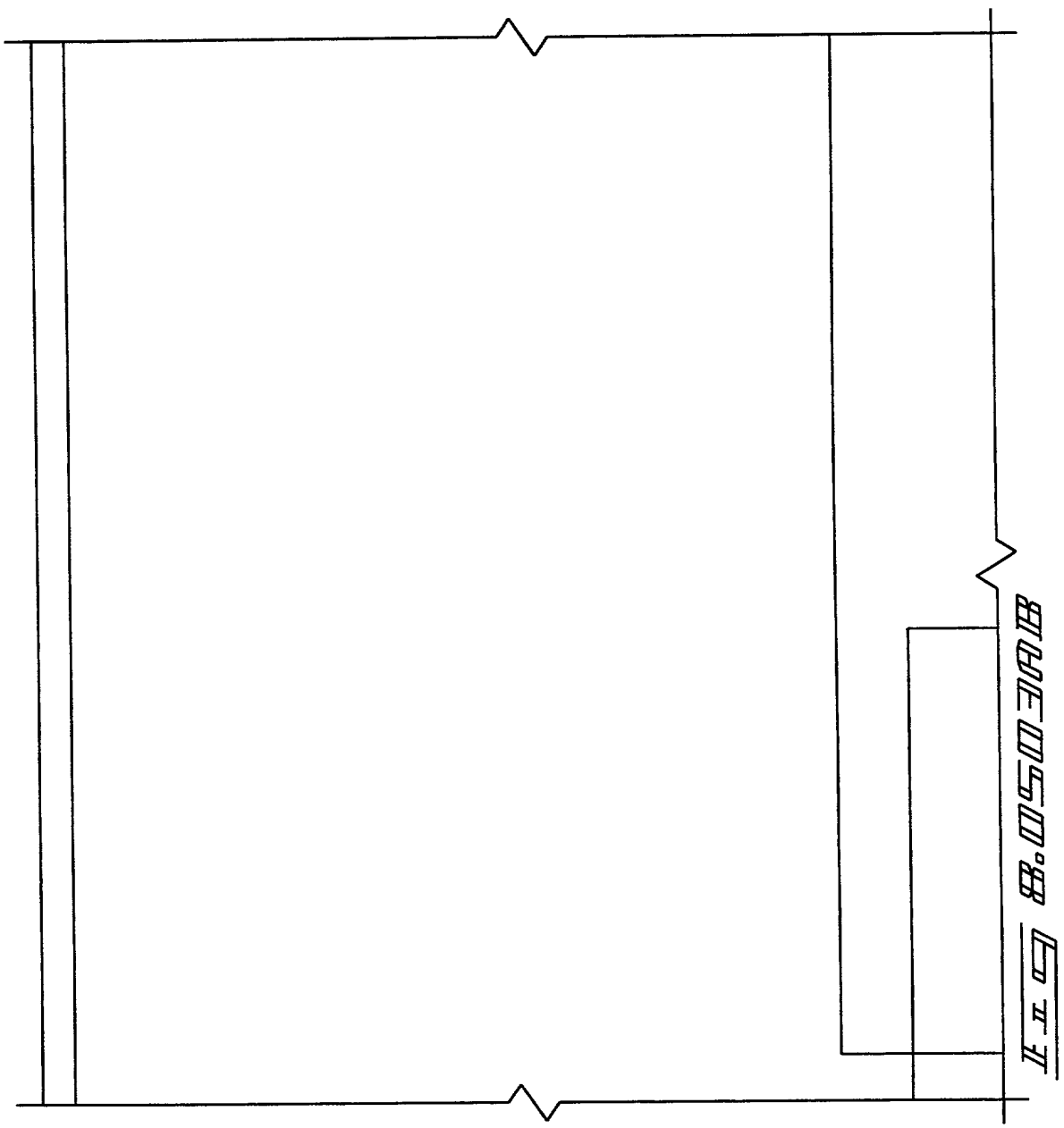
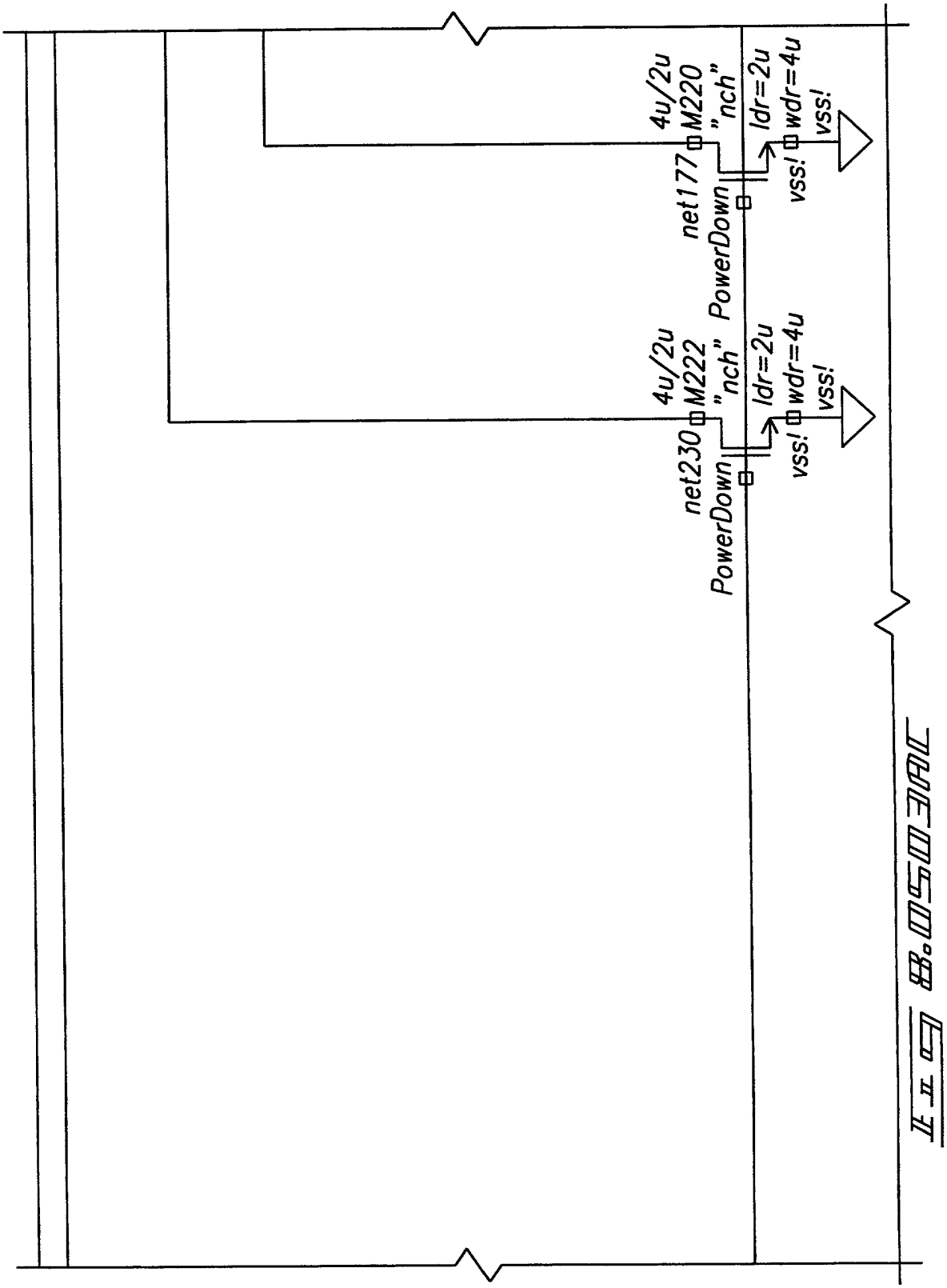
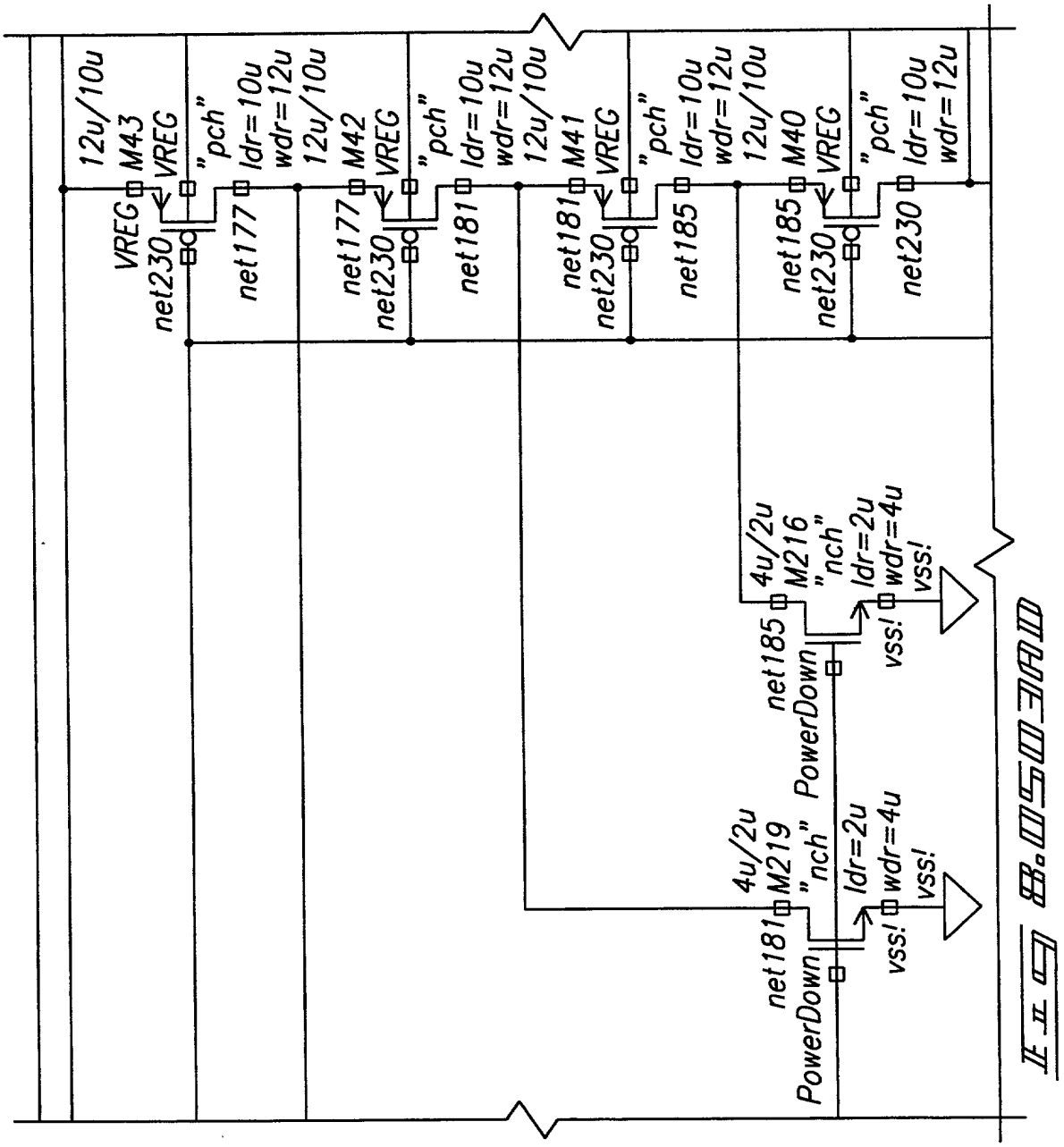


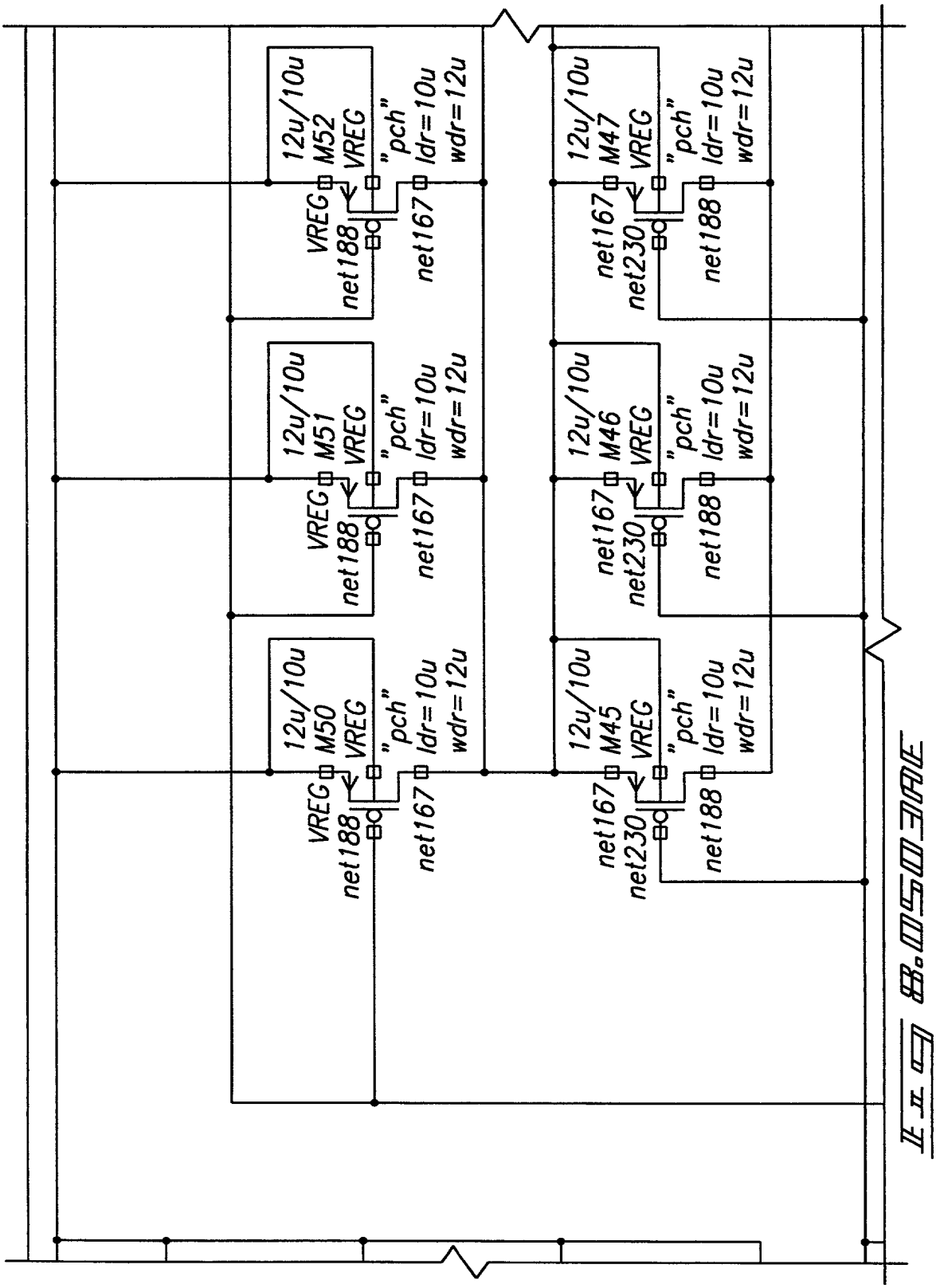
Fig 8.0503AA

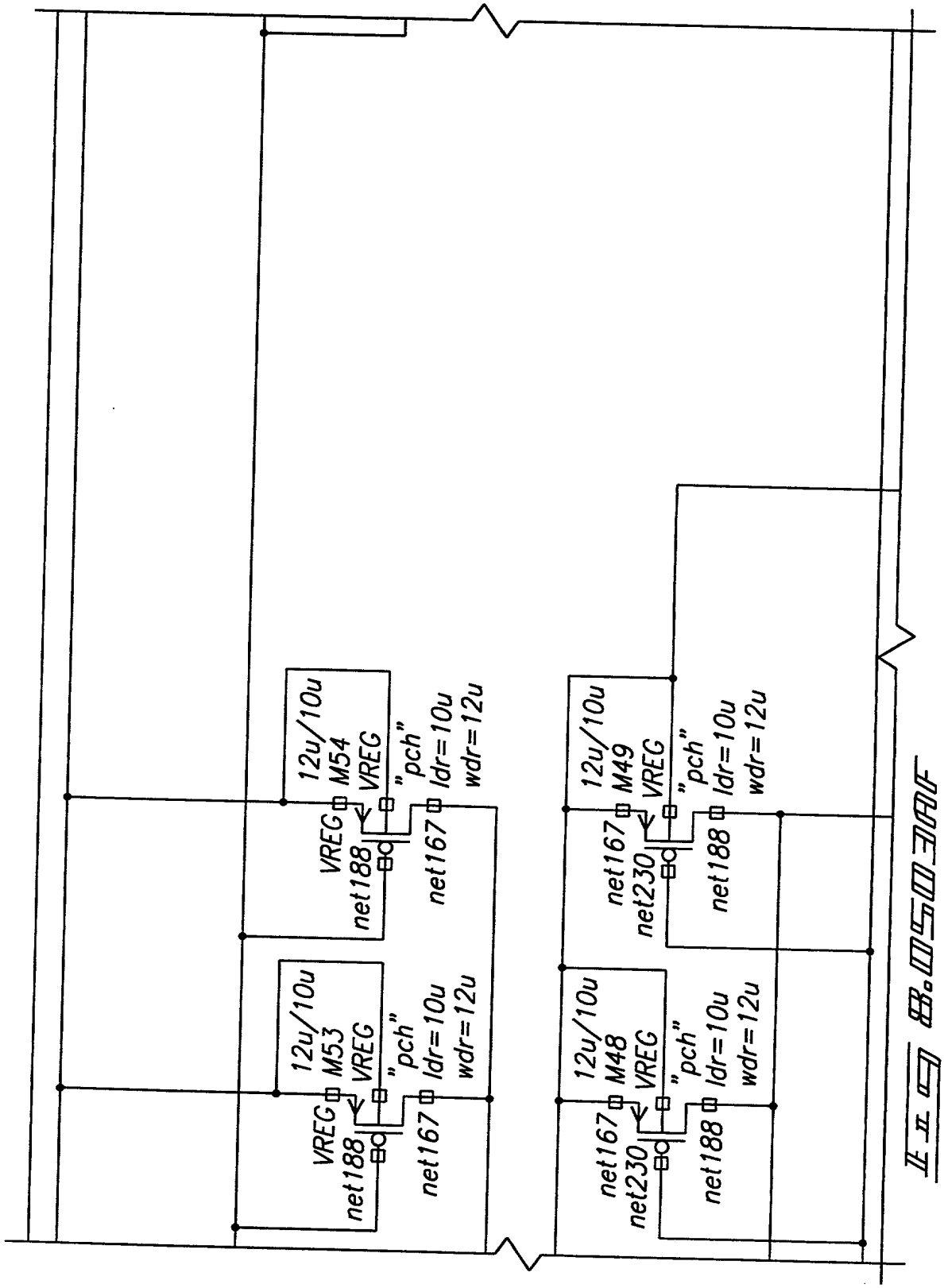


5,954,205 - 5,954,265


4u/2u
M220
"nch"
ldr=2u
wdr=4u
vss!
net177
PowerDown
vss!
4u/2u
M222
"nch"
ldr=2u
wdr=4u
vss!
net230
PowerDown
vss!


12u/10u
M43
VREG
net230
"pch"
ldr=10u
wdr=12u
net177
12u/10u
M42
VREG
net230
"pch"
ldr=10u
wdr=12u
net181
12u/10u
M41
VREG
net230
"pch"
ldr=10u
wdr=12u
net185
12u/10u
M40
VREG
net230
"pch"
ldr=10u
wdr=12u
net230
4u/2u
M219
"nch"
ldr=2u
wdr=4u
net181
PowerDown
vss!
vss!
4u/2u
M216
"nch"
ldr=2u
wdr=4u
net185
PowerDown
vss!
vss!


12u/10u
M52
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net167
12u/10u
M51
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net167
12u/10u
M50
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net167
12u/10u
M47
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ldr=10u
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net167
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net188
12u/10u
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VREG
"pch"
ldr=10u
wdr=12u
net167
net230
net188
12u/10u
M45
VREG
"pch"
ldr=10u
wdr=12u
net167
net230
net188



US 6,504,225 B1

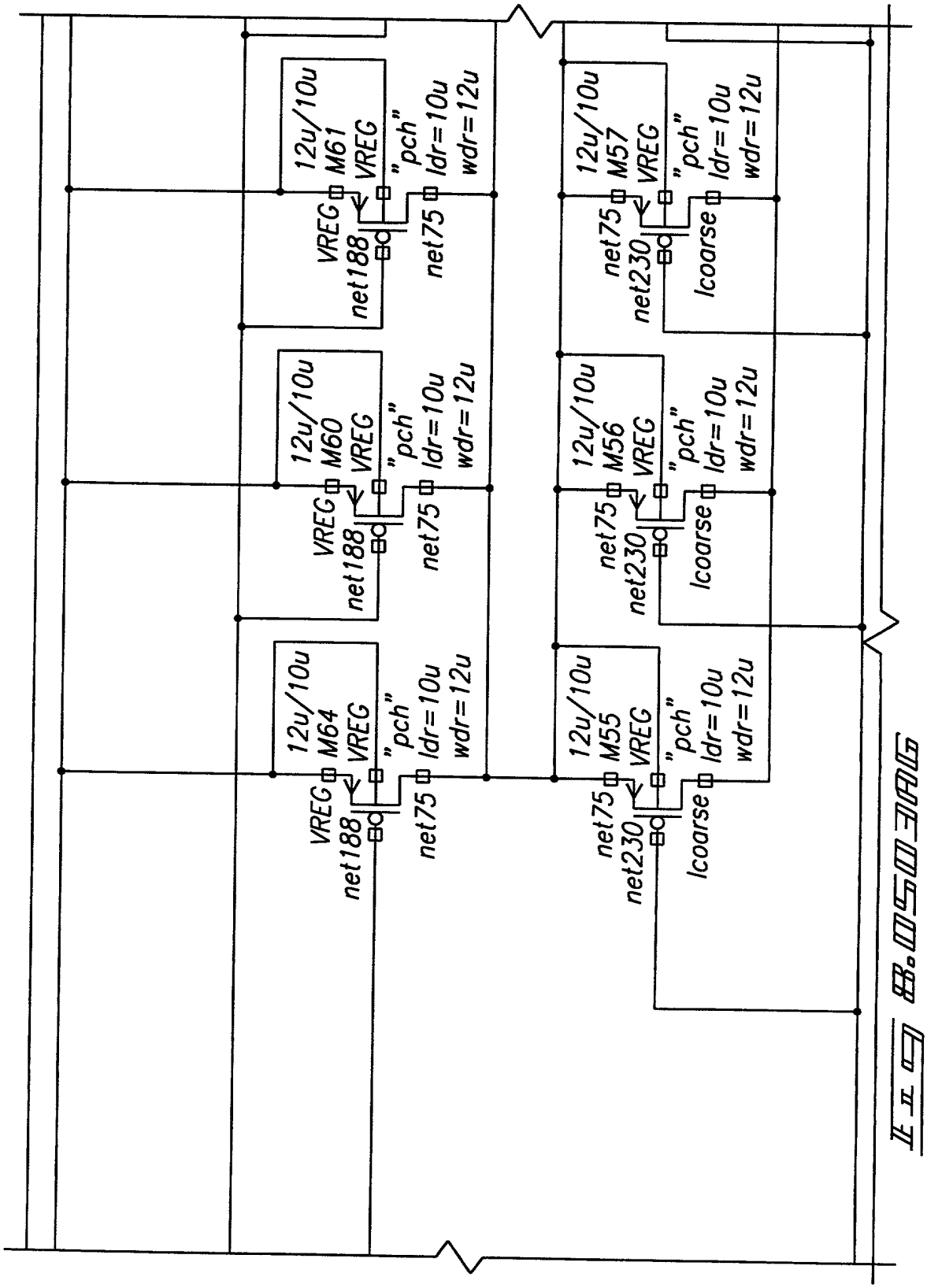

12u/10u
M61
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M60
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M64
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M57
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse
12u/10u
M56
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse
12u/10u
M55
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse

FIG 8,005

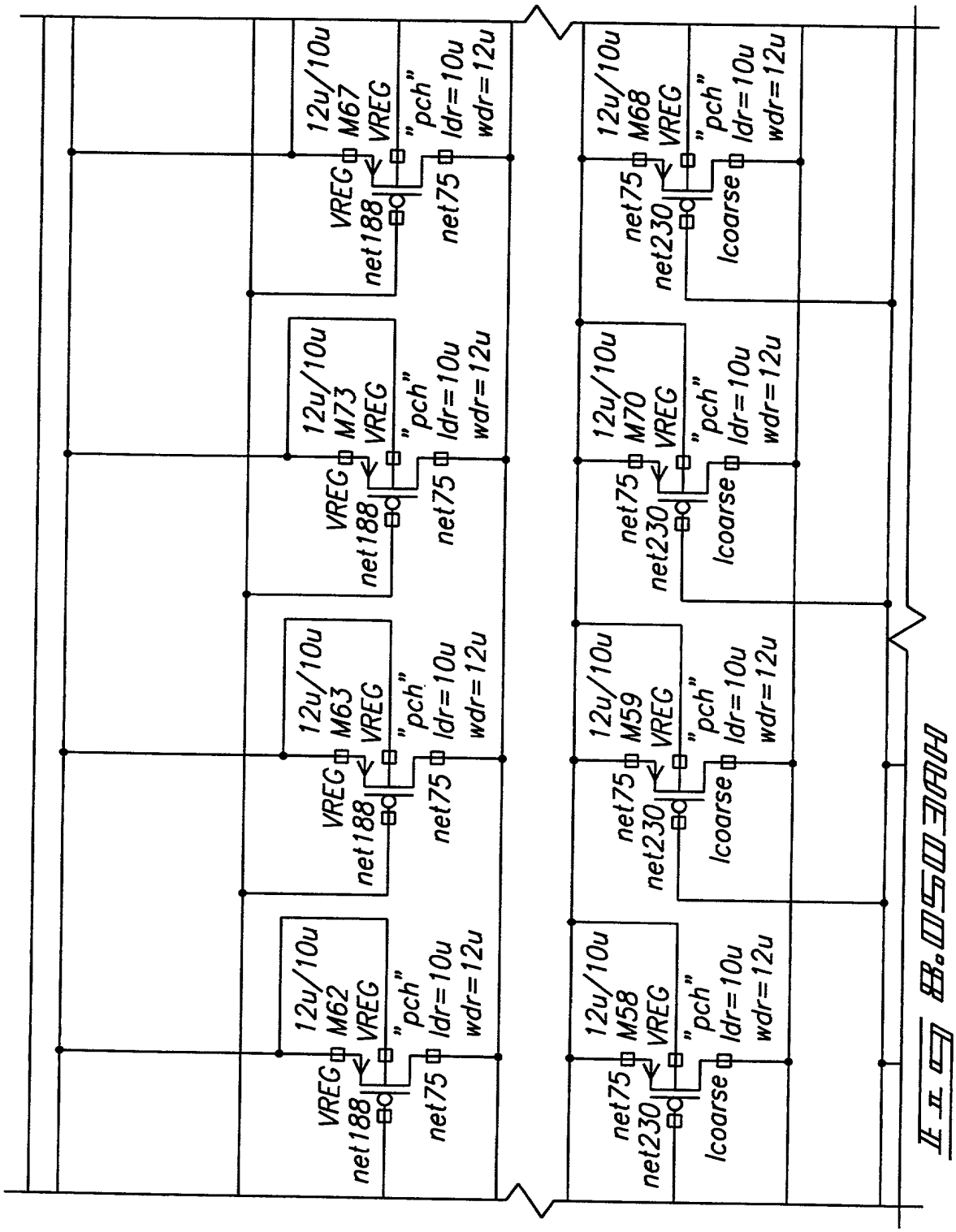
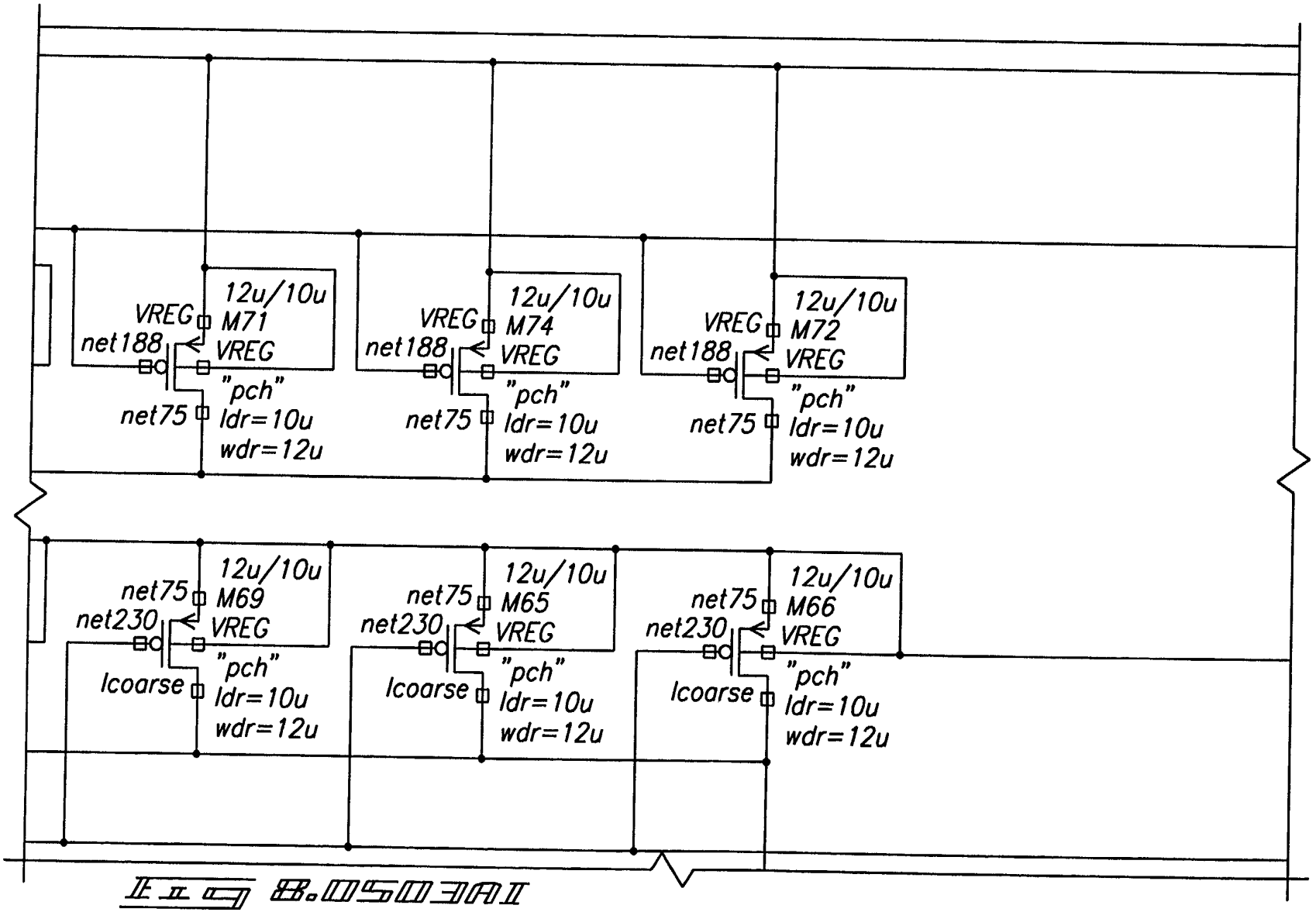
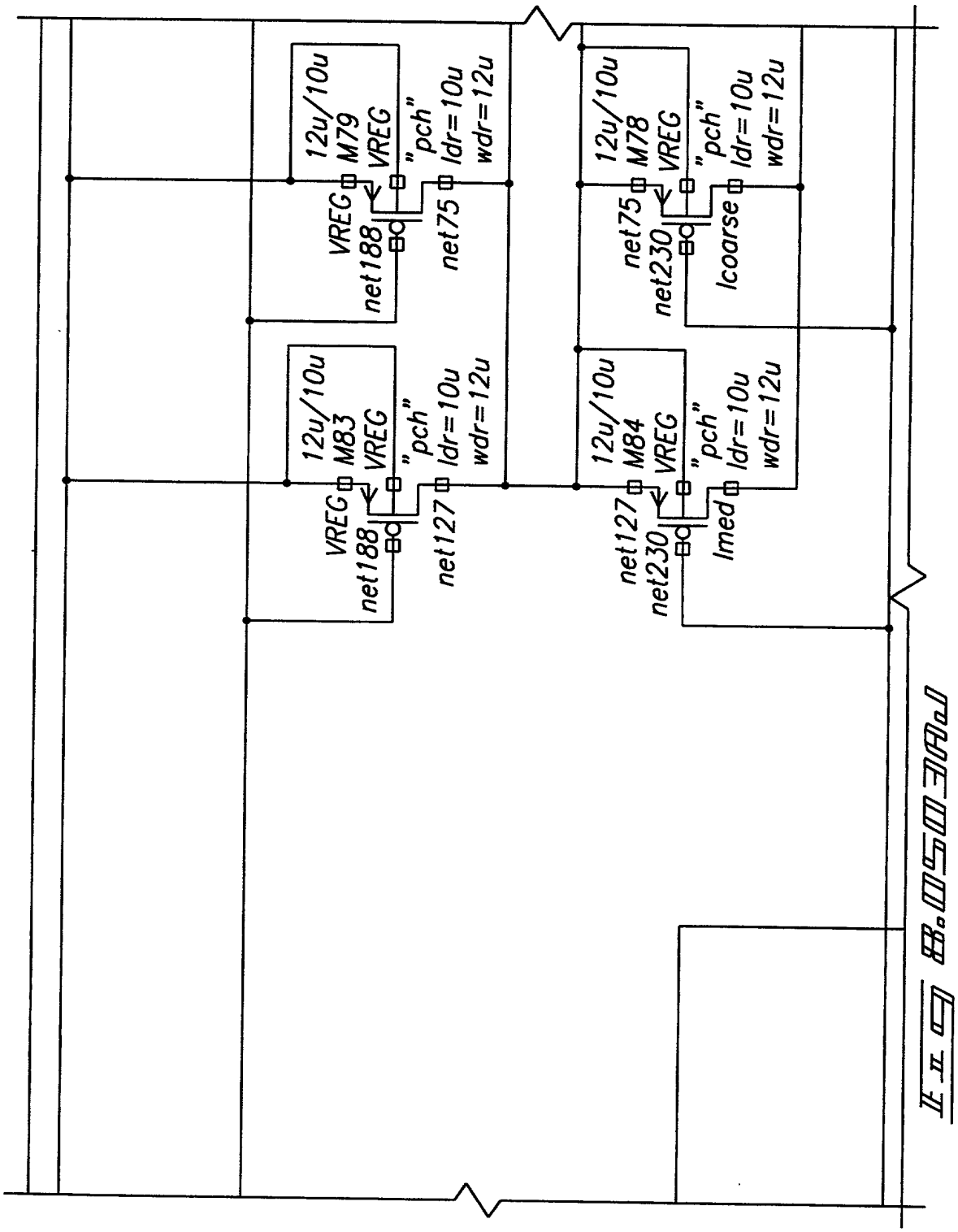
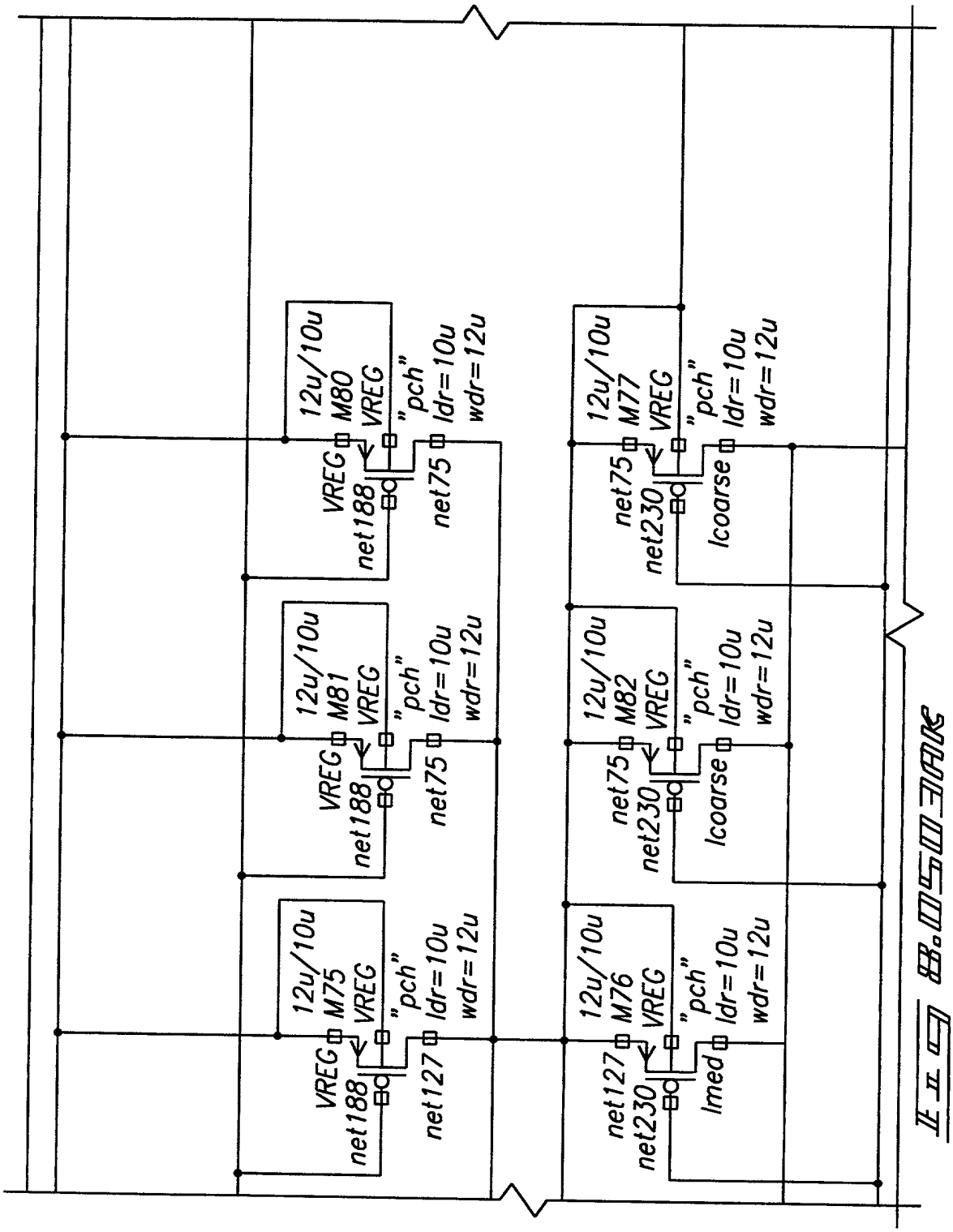


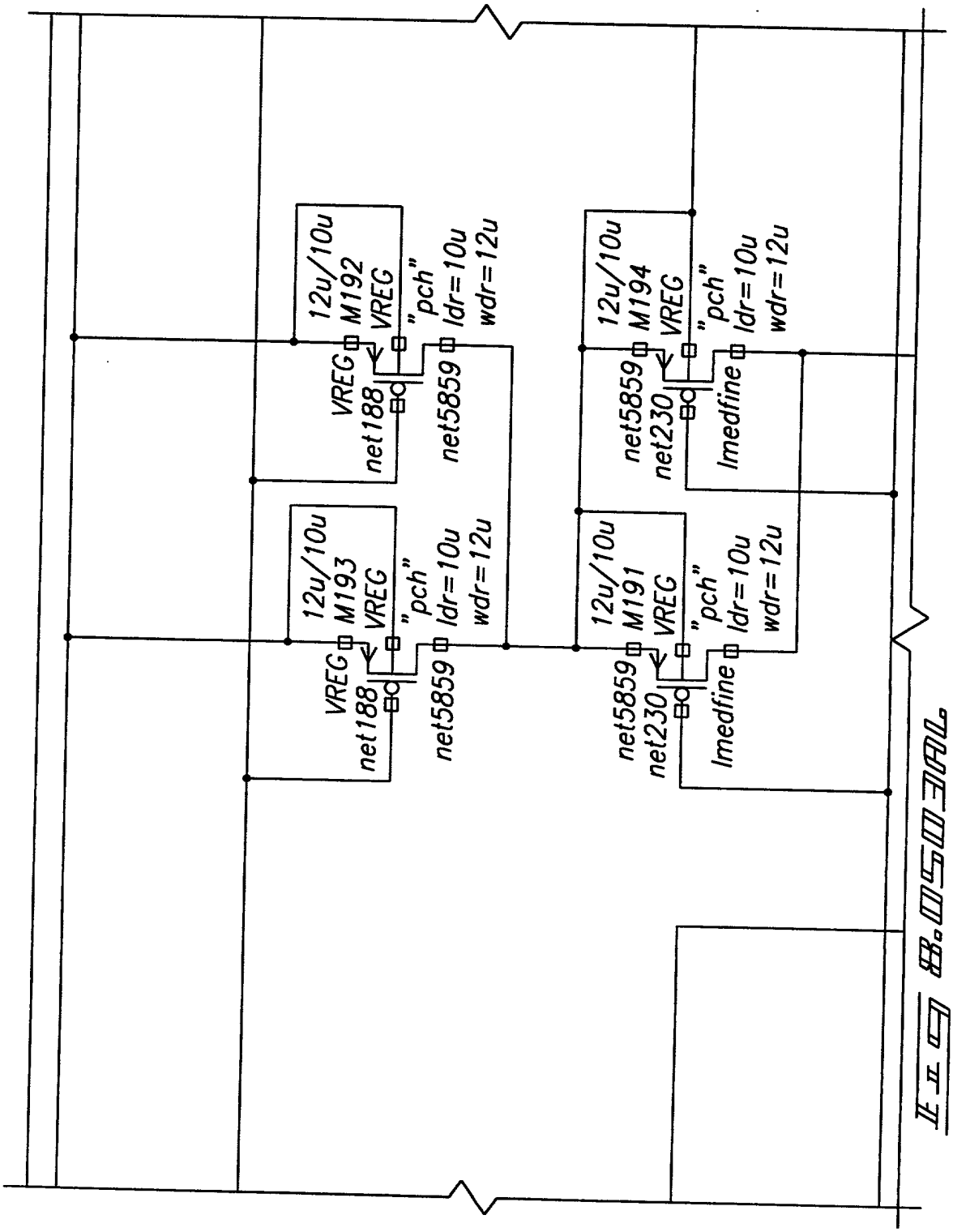
FIG 88.0500 PRIOR ART

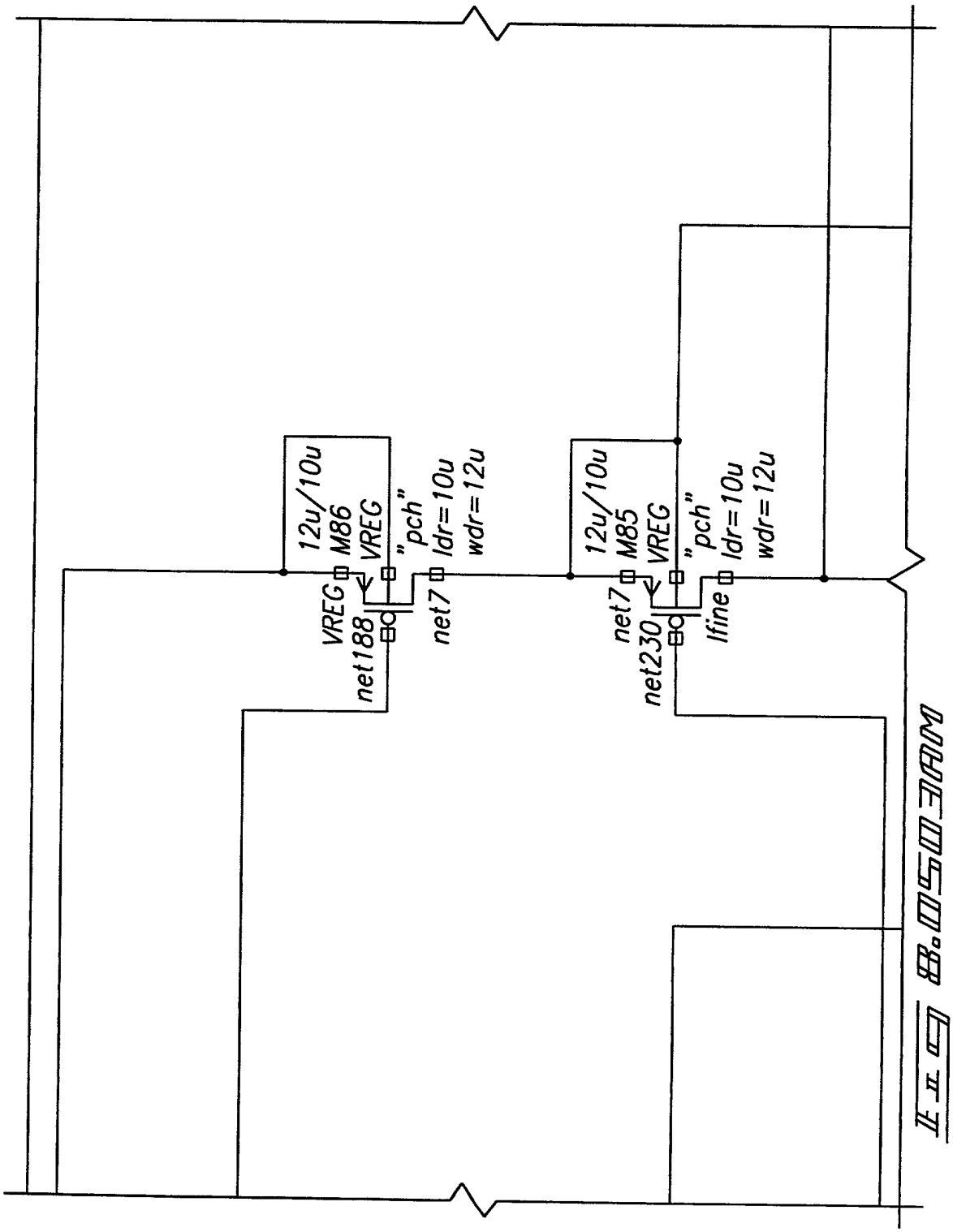

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VREG
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net75
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wdr=12u
12u/10u
M74
VREG
net188
VREG
"pch"
net75
ldr=10u
wdr=12u
12u/10u
M72
VREG
net188
VREG
"pch"
net75
ldr=10u
wdr=12u
12u/10u
M69
net75
net230
VREG
"pch"
Icoarse
ldr=10u
wdr=12u
12u/10u
M65
net75
net230
VREG
"pch"
Icoarse
ldr=10u
wdr=12u
12u/10u
M66
net75
net230
VREG
"pch"
Icoarse
ldr=10u
wdr=12u


12u/10u
M79
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M78
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse
12u/10u
M83
VREG
"pch"
ldr=10u
wdr=12u
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net188
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"pch"
ldr=10u
wdr=12u
net127
net230
lmed

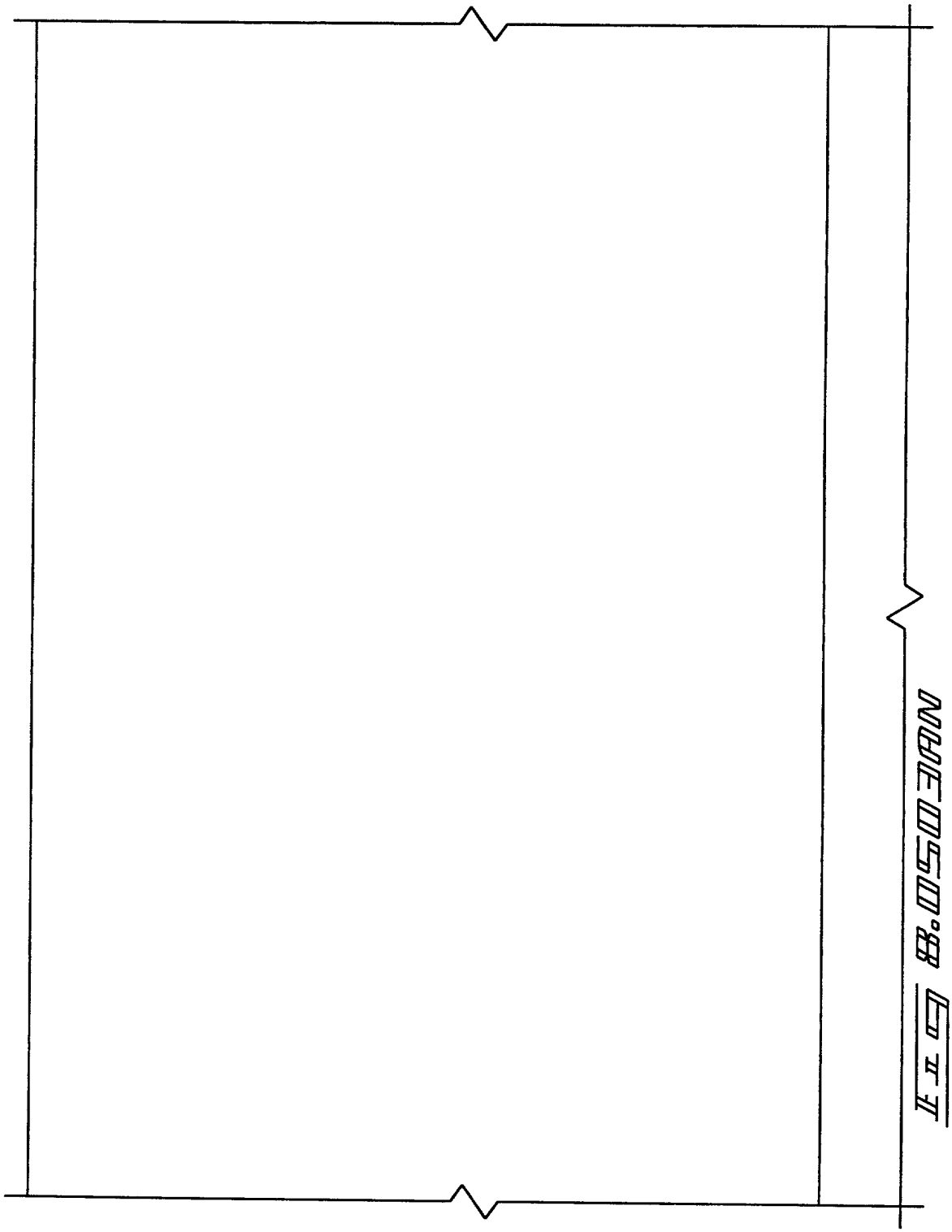
Фиг. 8.0500


12u/10u
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VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net127
12u/10u
M81
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M80
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net75
12u/10u
M76
VREG
"pch"
ldr=10u
wdr=12u
net127
net230
lmed
12u/10u
M82
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse
12u/10u
M77
VREG
"pch"
ldr=10u
wdr=12u
net75
net230
lcoarse

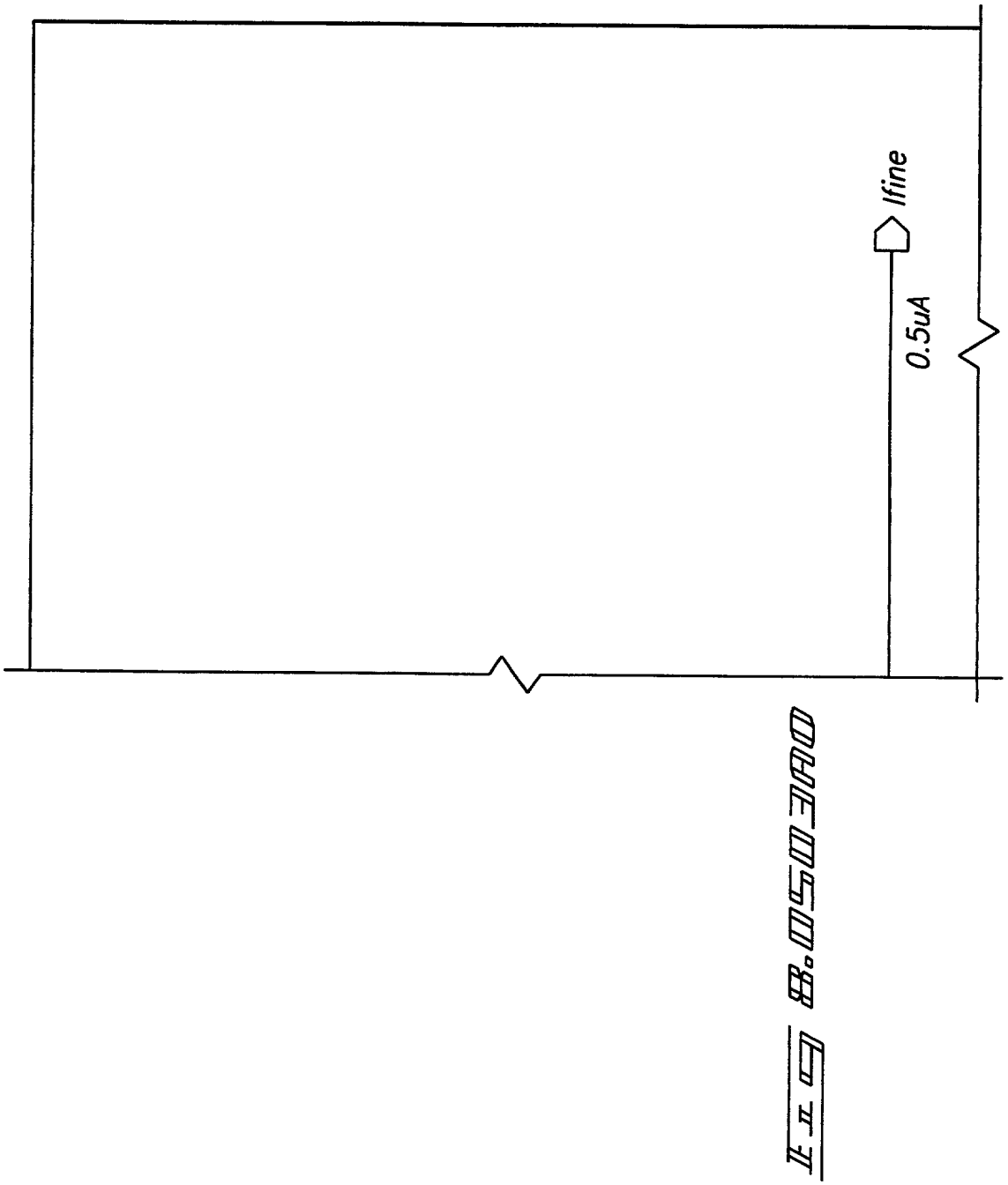

12u/10u
M192
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net5859
12u/10u
M193
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net5859
12u/10u
M194
VREG
"pch"
ldr=10u
wdr=12u
net5859
net230
lmedfine
12u/10u
M191
VREG
"pch"
ldr=10u
wdr=12u
net5859
net230
lmedfine

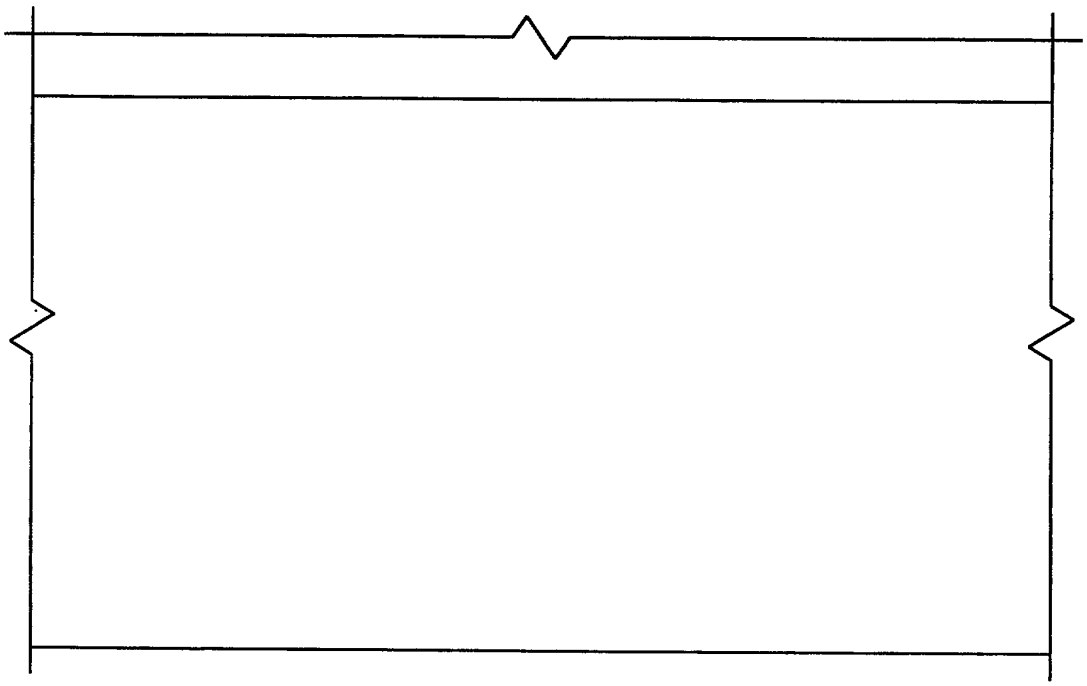

12u/10u
M86
VREG
"pch"
ldr=10u
wdr=12u
VREG
net188
net7
12u/10u
M85
VREG
"pch"
ldr=10u
wdr=12u
net7
net230
lfine
MWE050.88 EXT

1510/3273

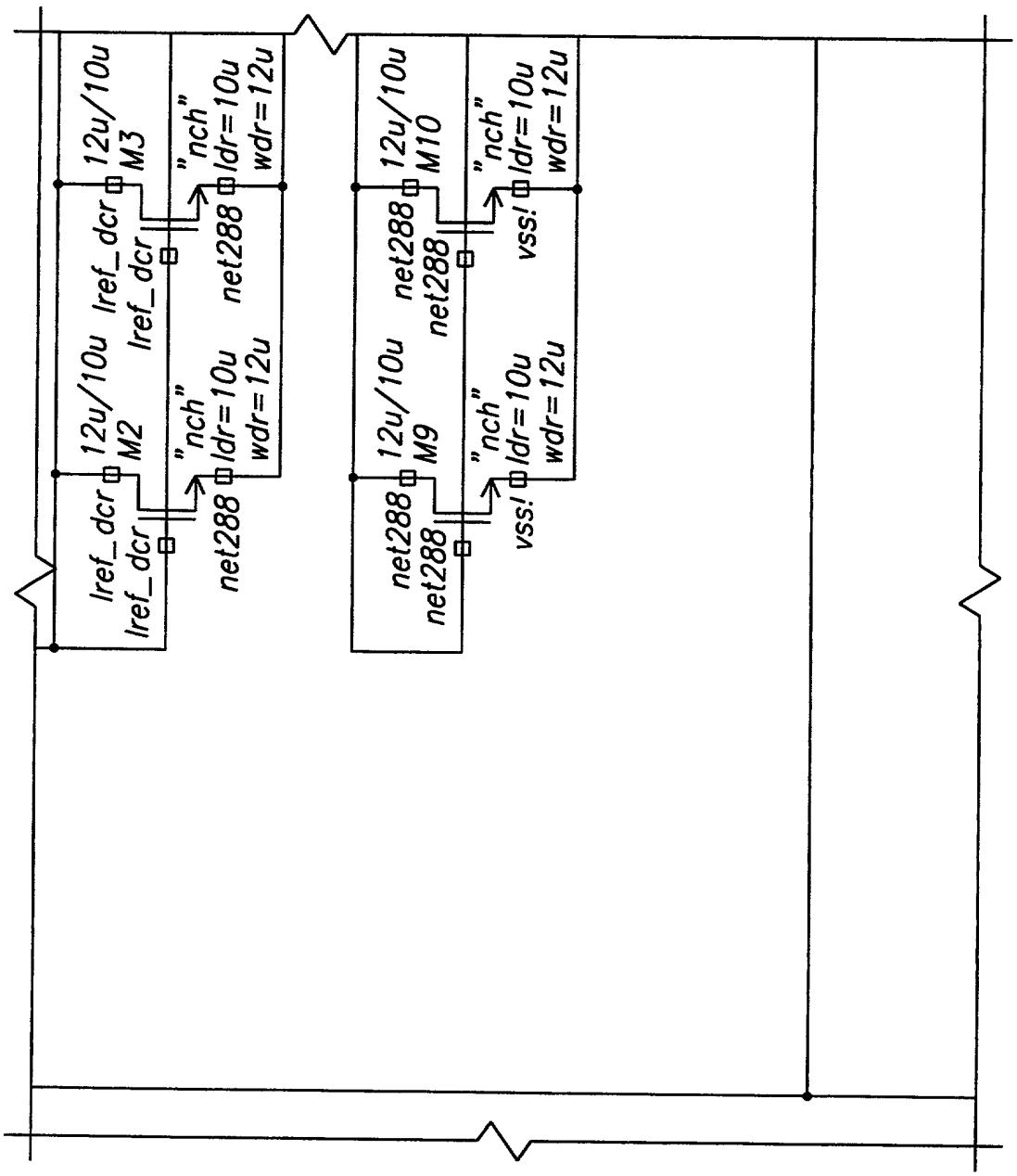


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Document Generated: 05/19/2024



圖五 CMOS 8.0

Document Classification

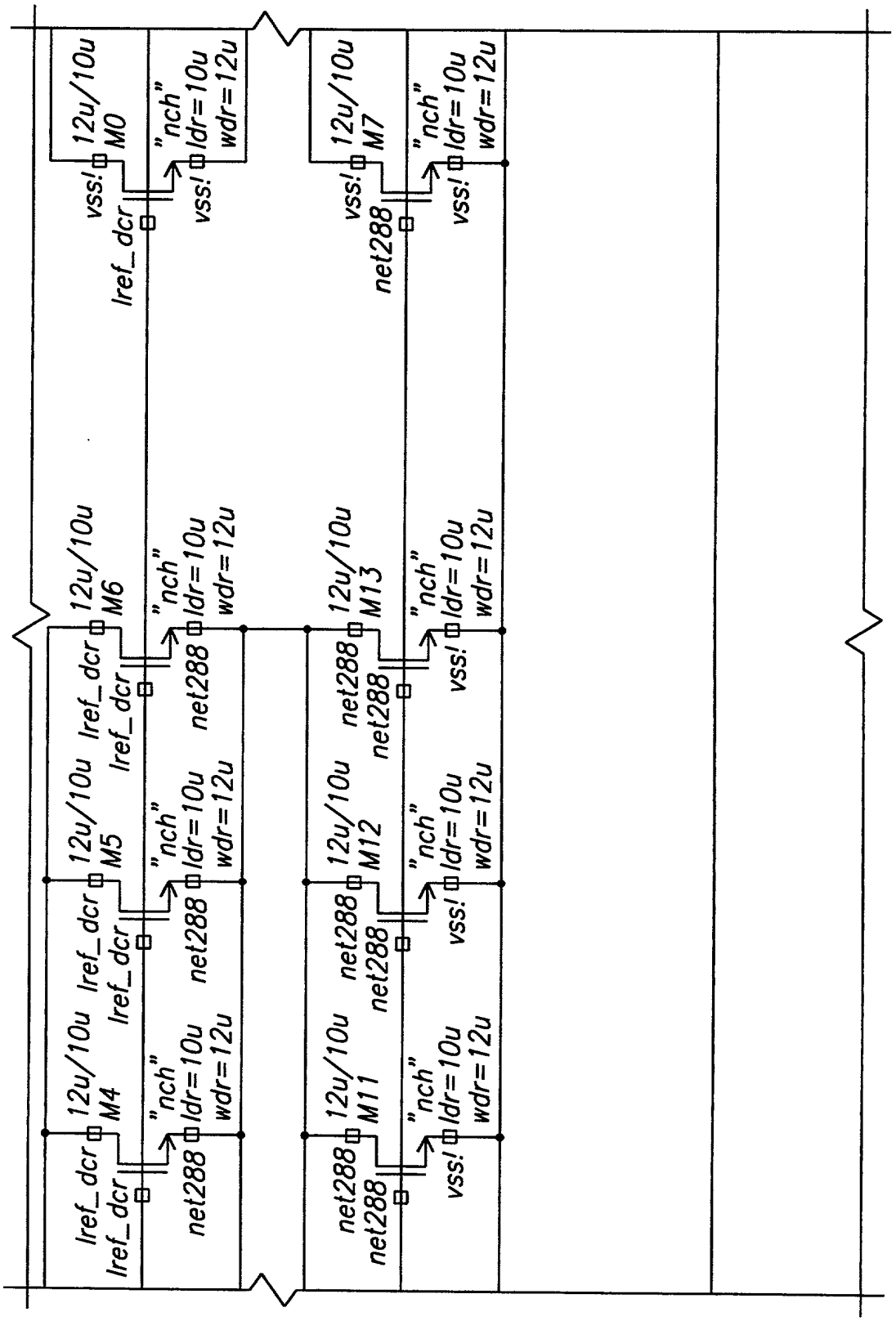


FIG 88.05000

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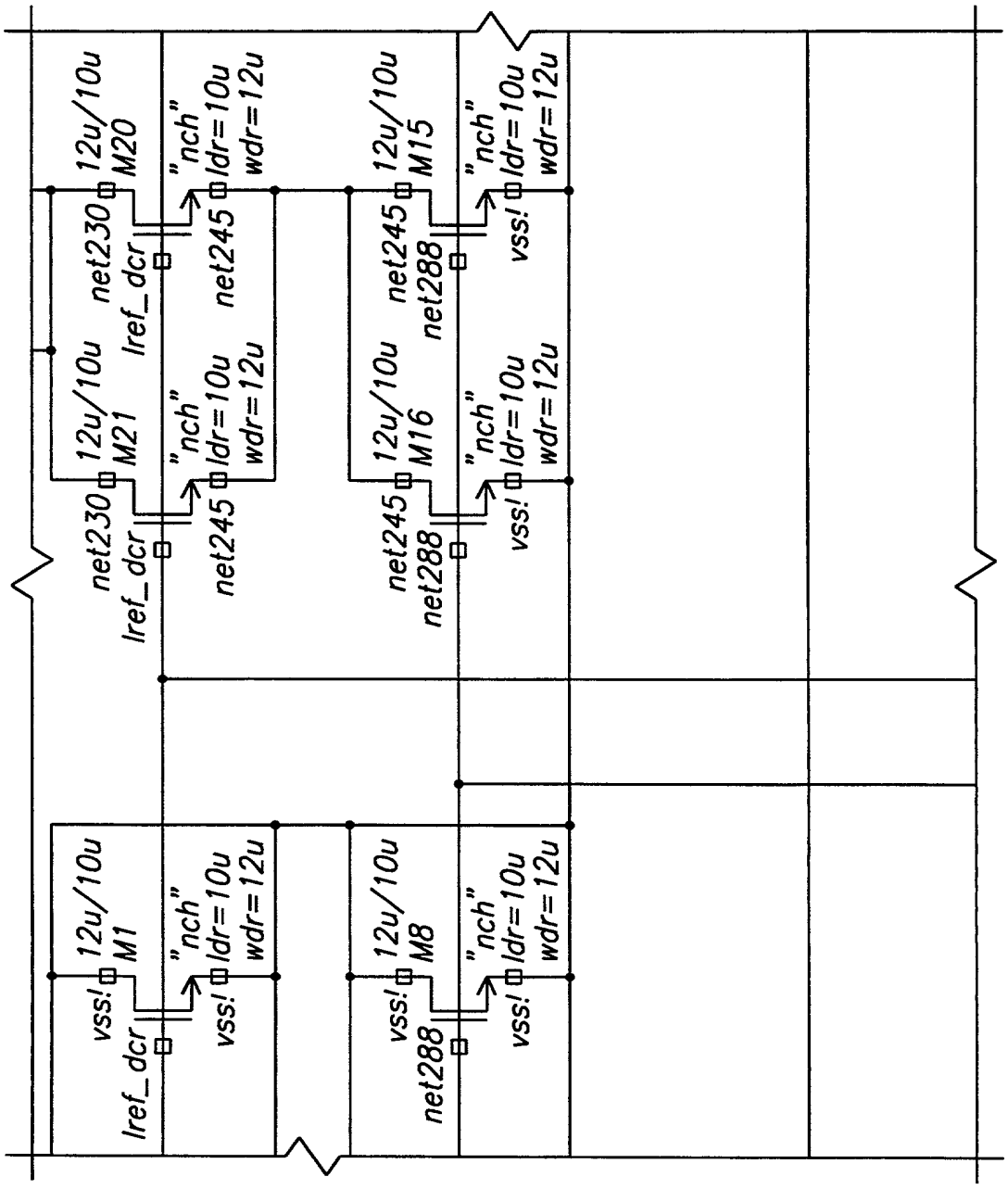

12u/10u
M20
"nch"
ldr=10u
wdr=12u
net230
net245
lref_dcr
12u/10u
M21
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ldr=10u
wdr=12u
net230
lref_dcr
net245
12u/10u
M15
"nch"
ldr=10u
wdr=12u
net245
net288
vss!
12u/10u
M16
"nch"
ldr=10u
wdr=12u
net245
net288
vss!
12u/10u
M1
"nch"
ldr=10u
wdr=12u
vss!
lref_dcr
vss!
12u/10u
M8
"nch"
ldr=10u
wdr=12u
vss!
net288
vss!

FIG 8

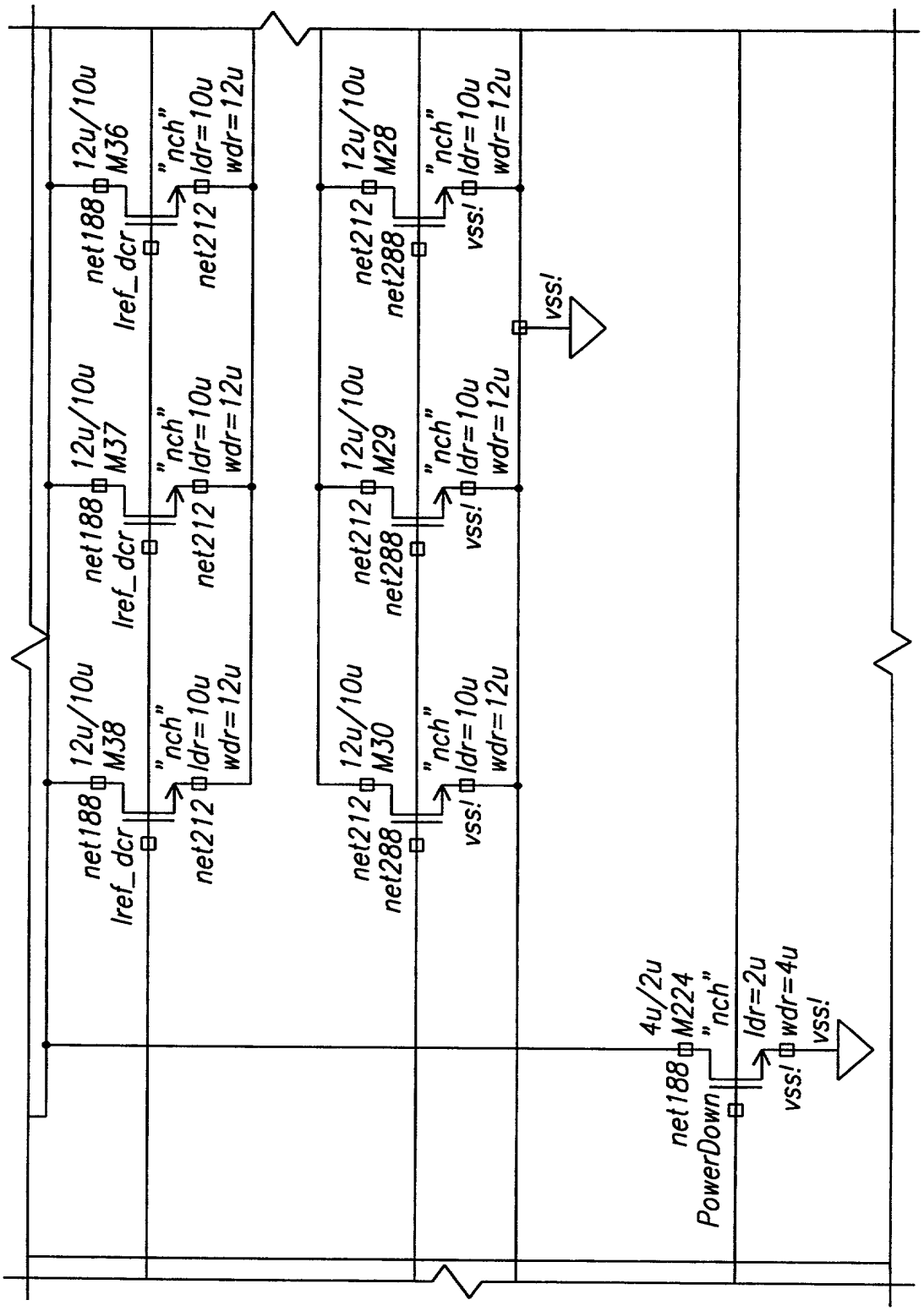

12u/10u
M36
"nch"
ldr=10u
wdr=12u
net188
lref_dcr
net212
12u/10u
M37
"nch"
ldr=10u
wdr=12u
net188
lref_dcr
net212
12u/10u
M38
"nch"
ldr=10u
wdr=12u
net188
lref_dcr
net212
12u/10u
M28
"nch"
ldr=10u
wdr=12u
net212
net288
vss!
vss!
12u/10u
M29
"nch"
ldr=10u
wdr=12u
net212
net288
vss!
12u/10u
M30
"nch"
ldr=10u
wdr=12u
net212
net288
vss!
4u/2u
M224
"nch"
ldr=2u
wdr=4u
net188
PowerDown
vss!
vss!

FIG 8.0508E

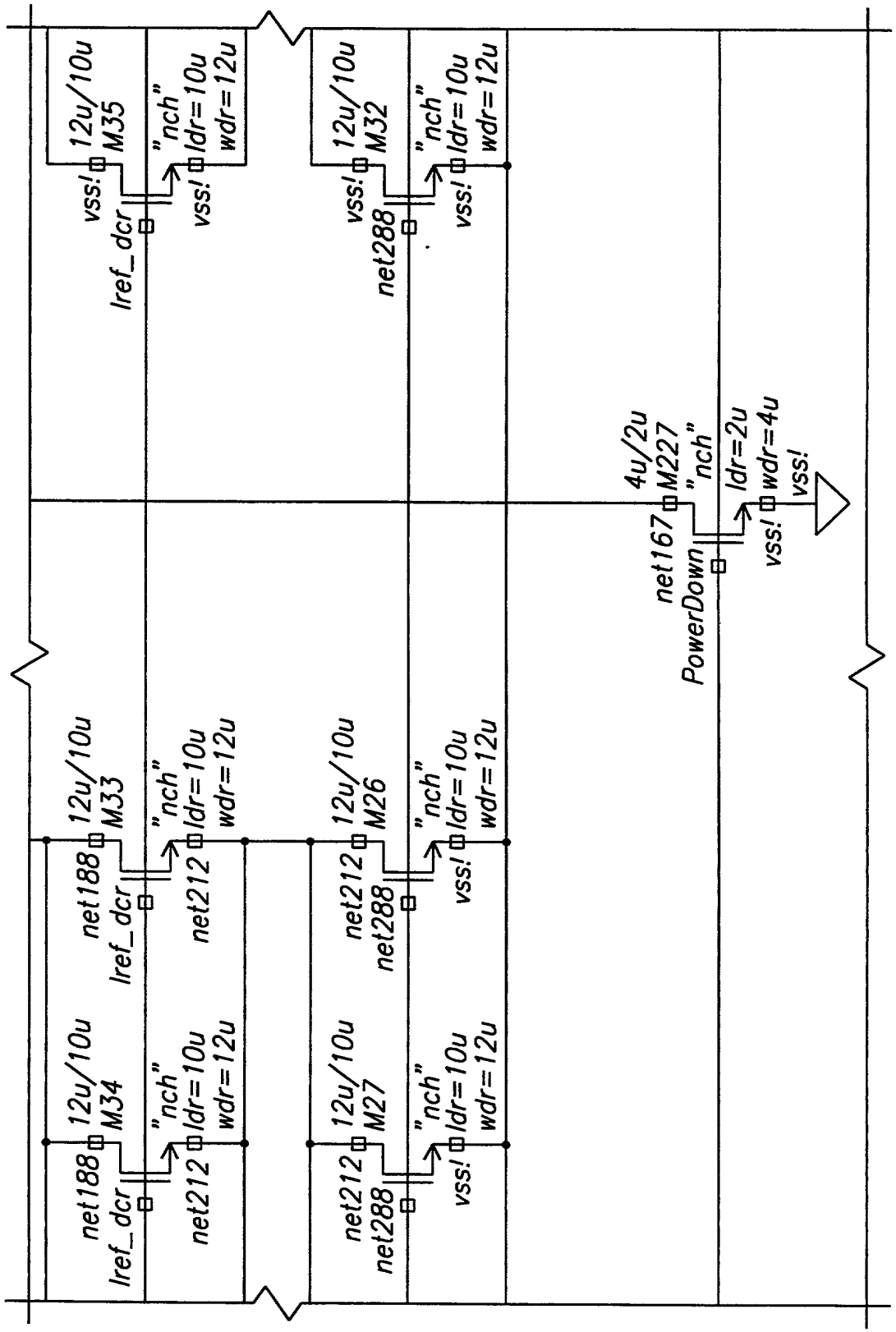

12u/10u M35
"nch" ldr=10u wdr=12u
vss!
Iref_dcr
12u/10u M32
net288
12u/10u M33
net188
net212
12u/10u M34
12u/10u M26
12u/10u M27
4u/2u M227
net167
PowerDown
ldr=2u wdr=4u

FIG. 85

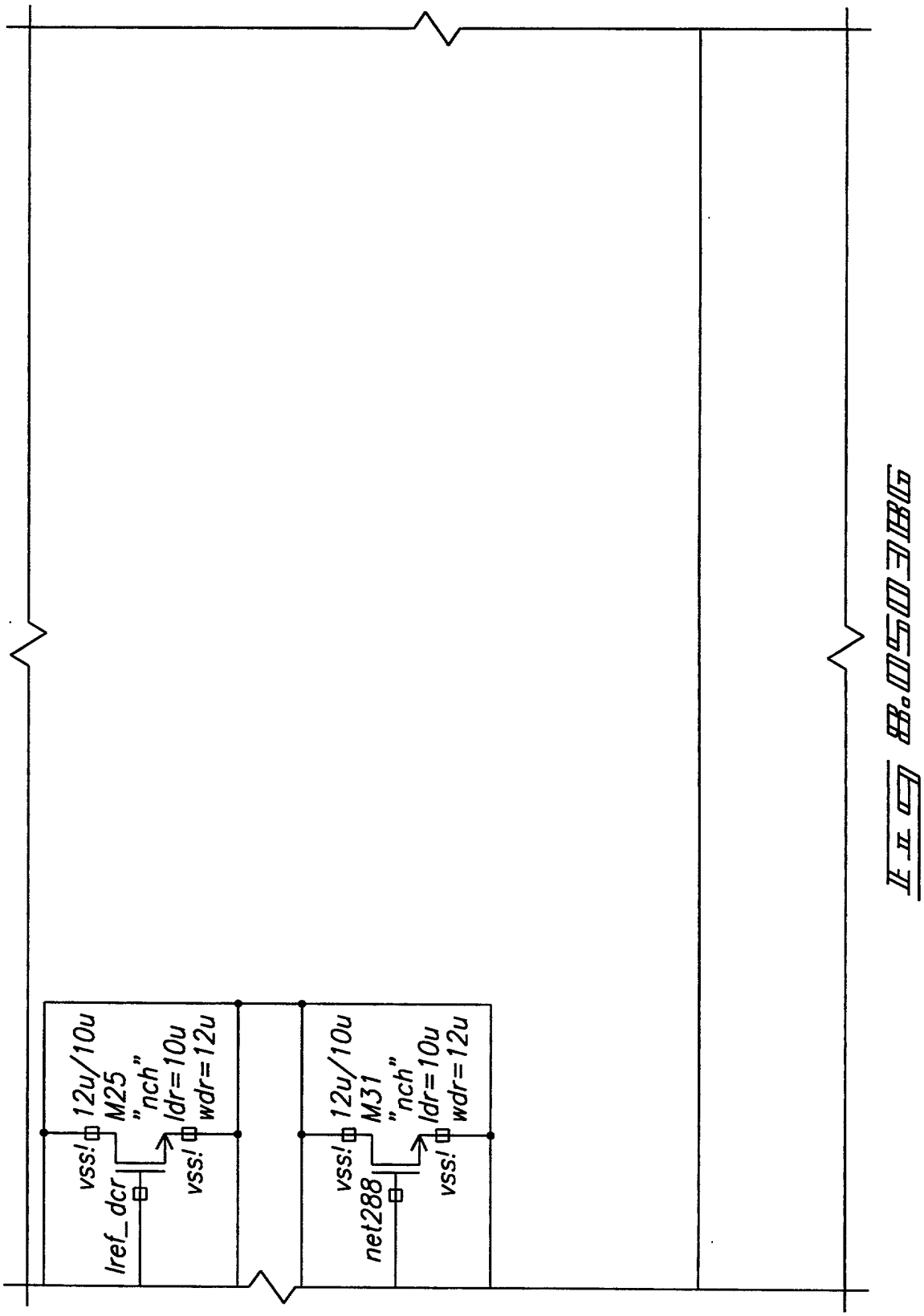


FIG 8.050.88

EP1159705A2020060

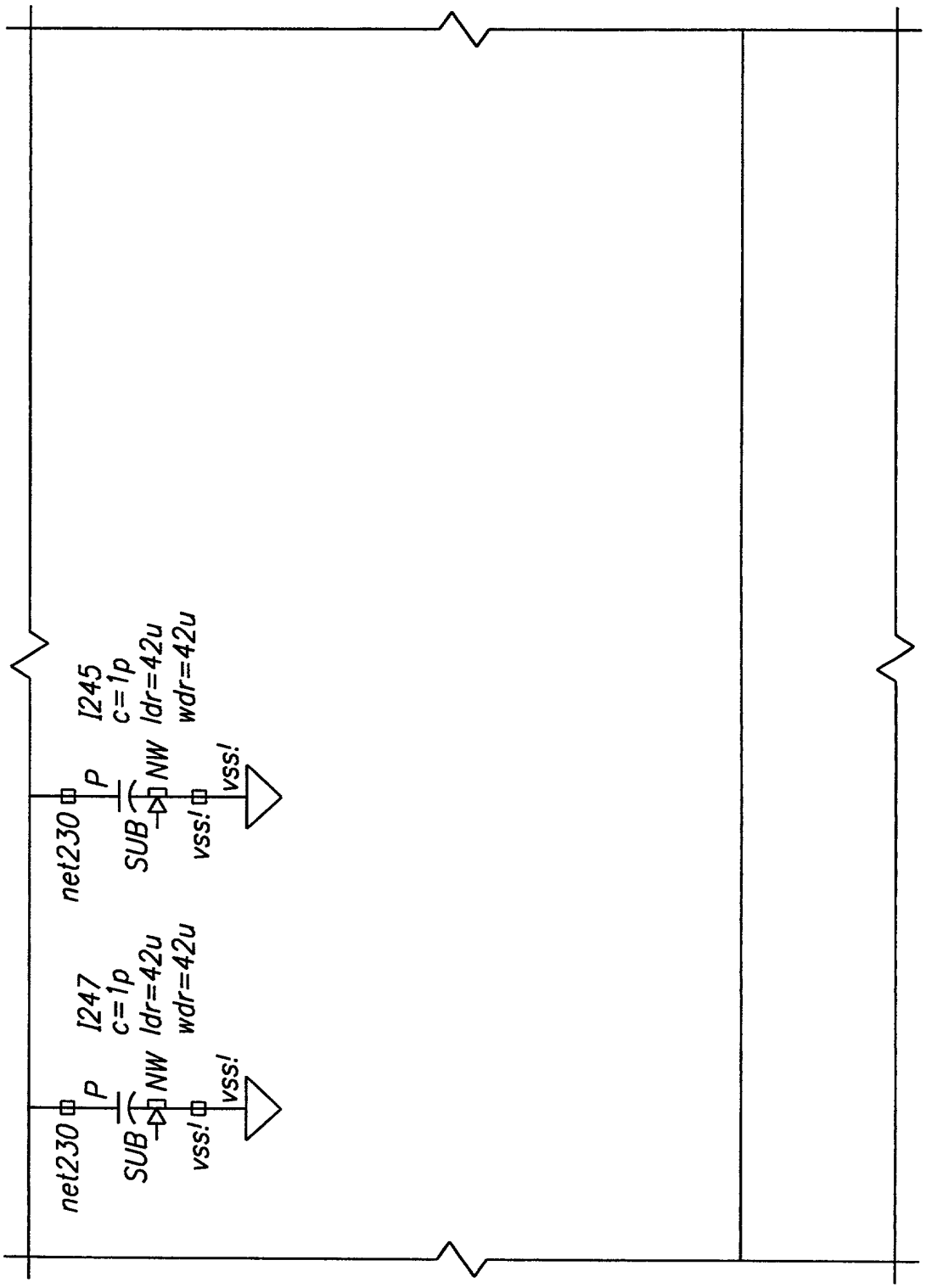


FIG 8.0500

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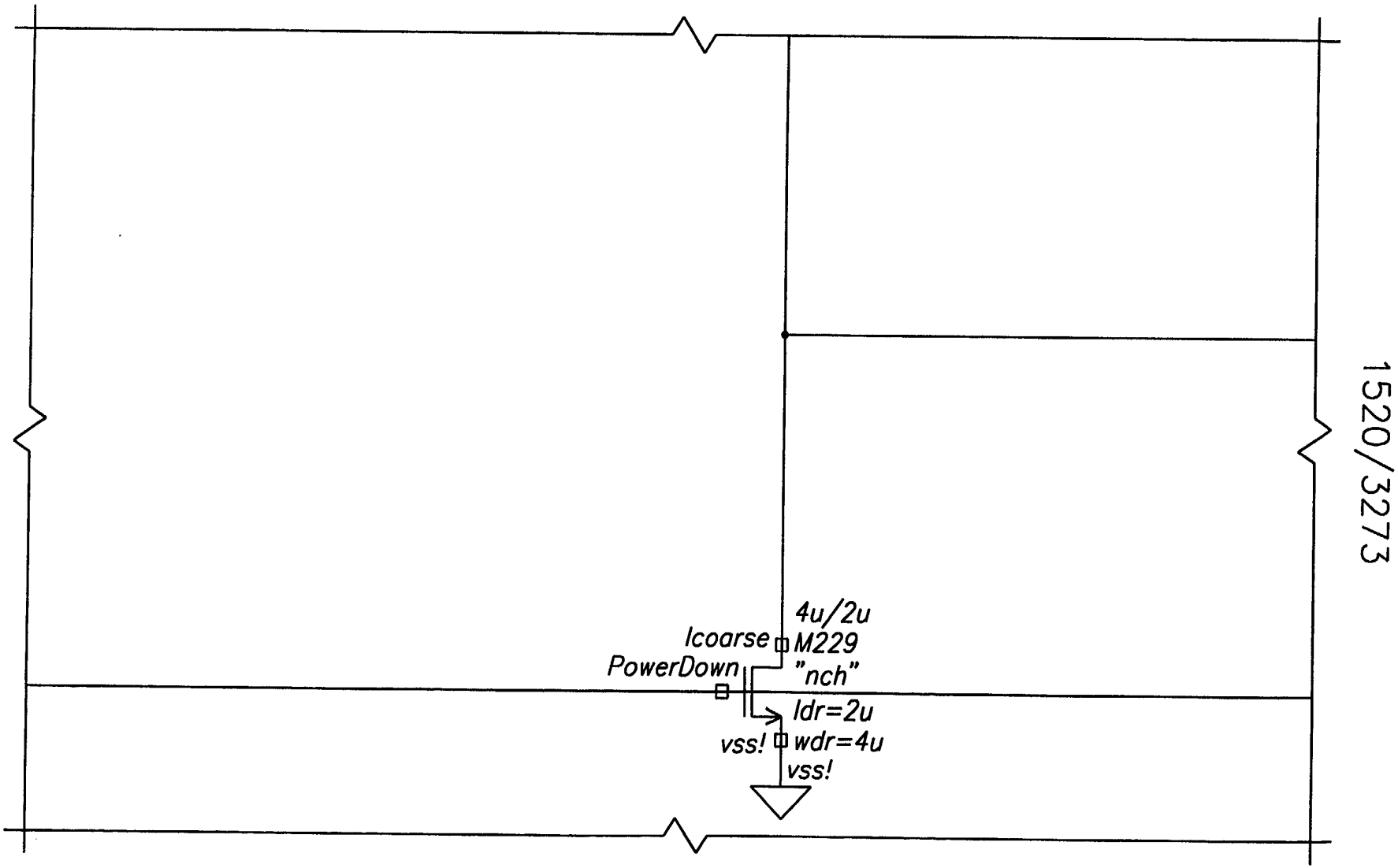

4u/2u
Icoarse
M229
PowerDown
"nch"
ldr=2u
vss!
wdr=4u
vss!
1520/3273

Fig 8.0503B1

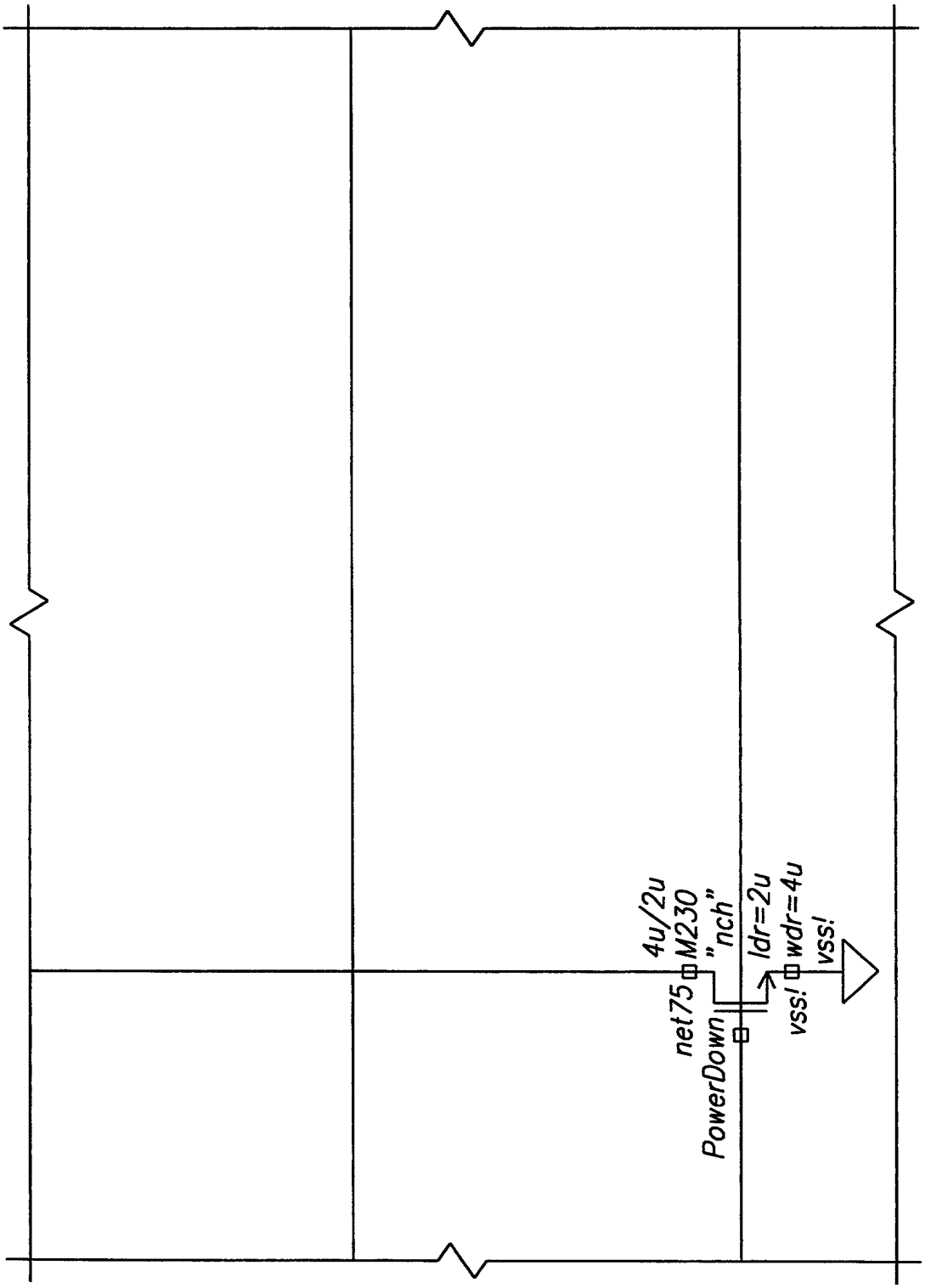


FIG 8.00E+00

US 7,015,526 B2 Mar. 21, 2006

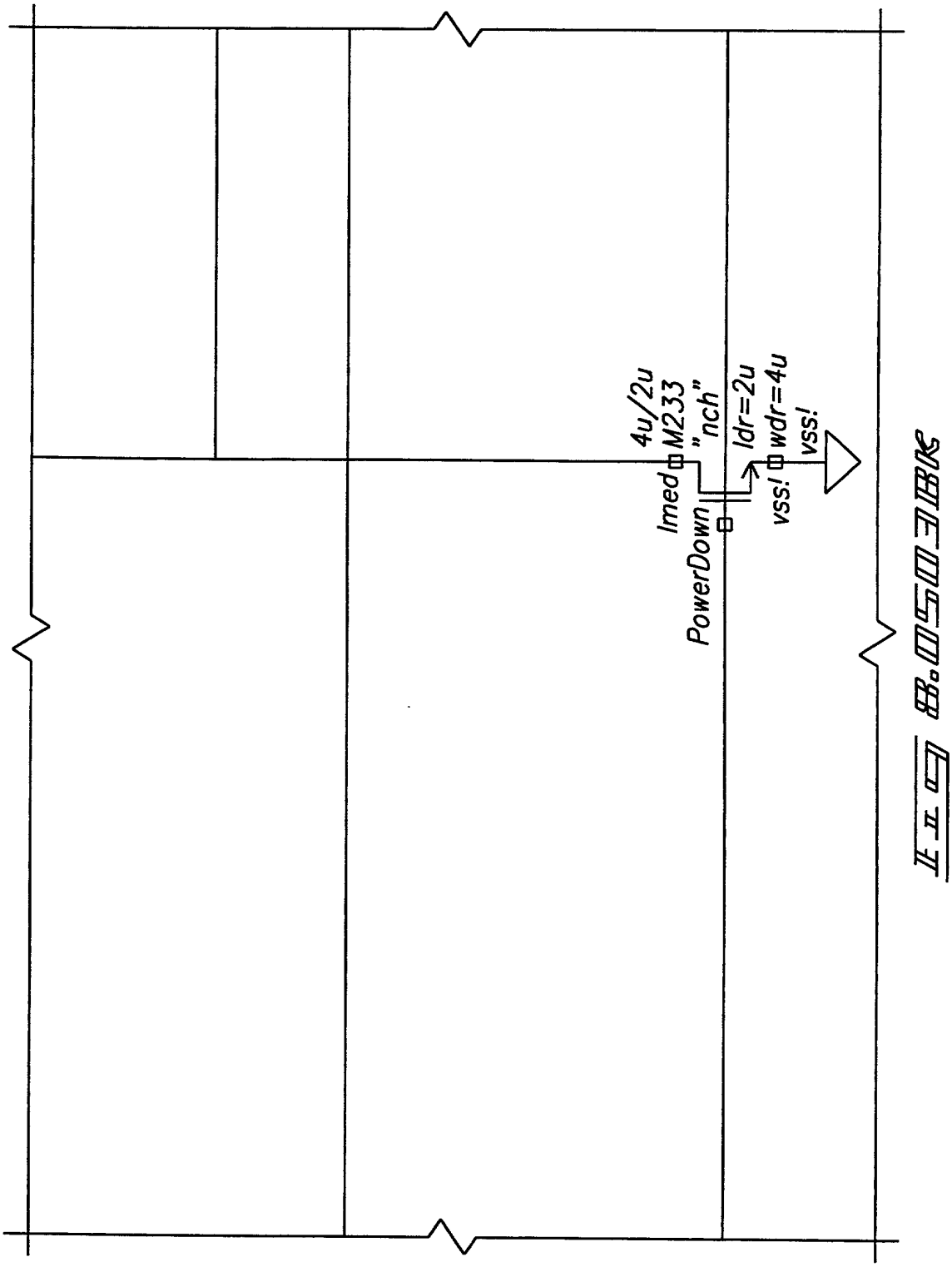


FIG 8.0508.88

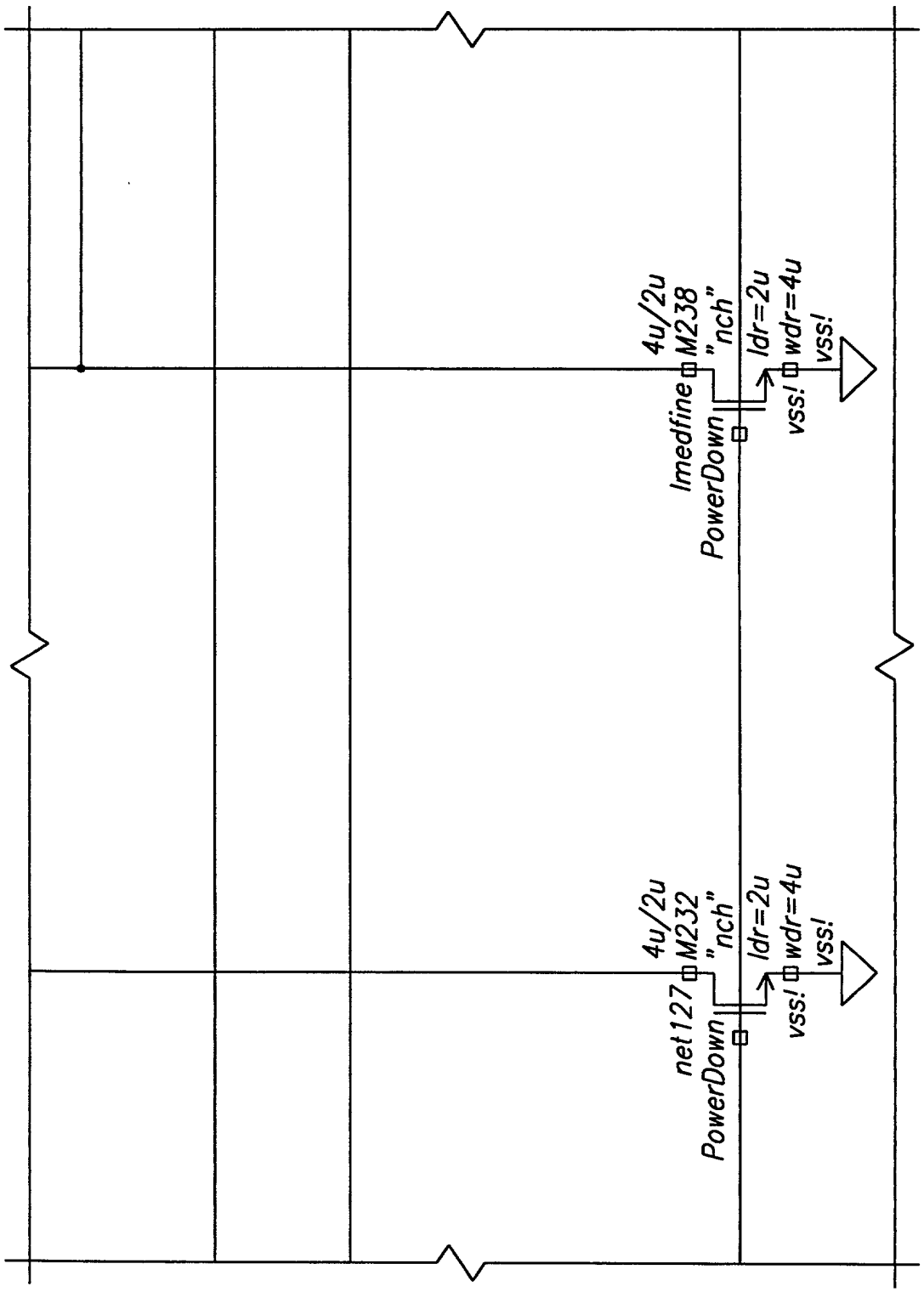

4u/2u
M238
"nch"
ldr=2u
wdr=4u
vss!
Imedfine
PowerDown
vss!
4u/2u
M232
"nch"
ldr=2u
wdr=4u
vss!
net127
PowerDown
vss!

FIG 8.0500.88

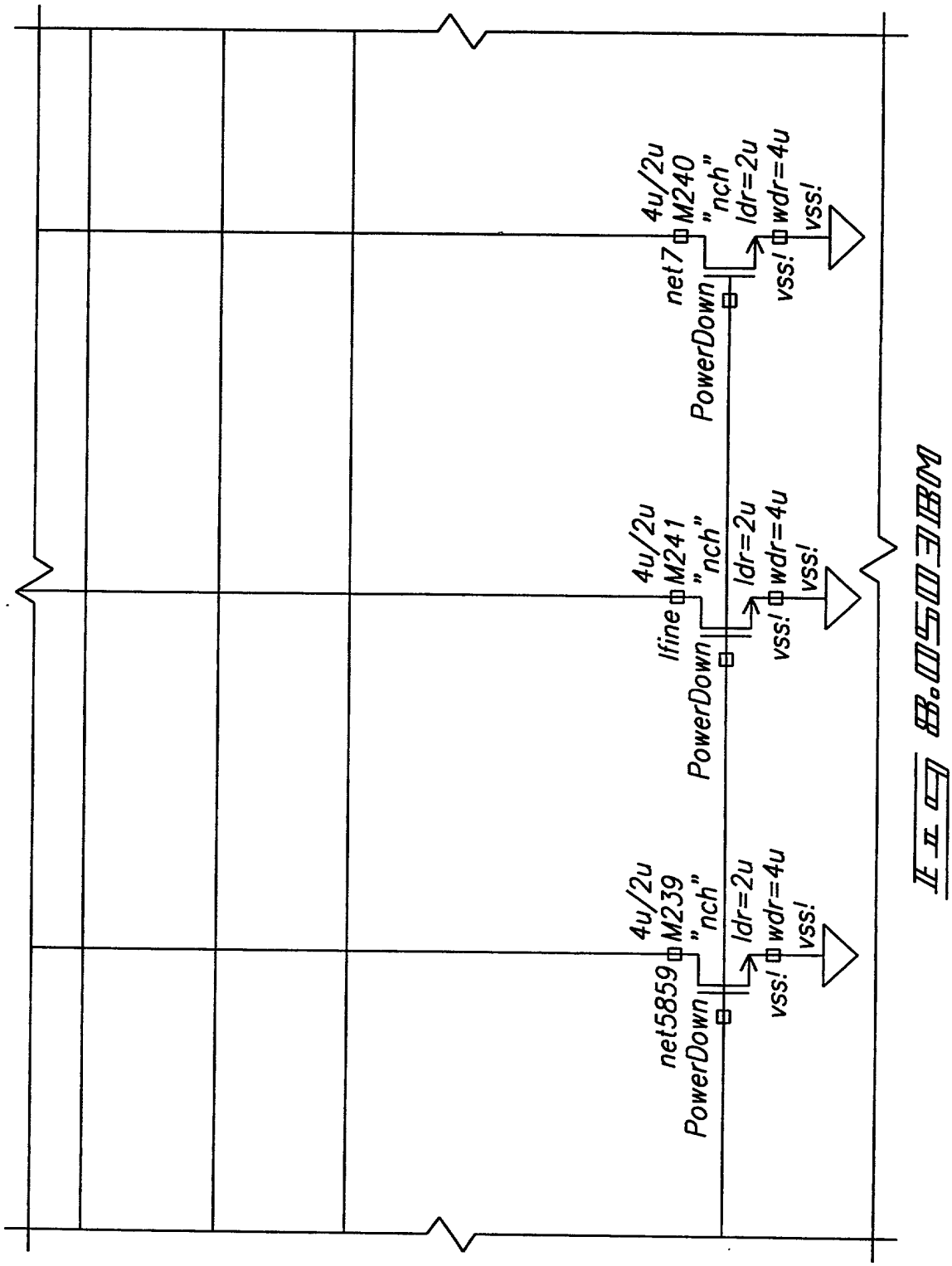
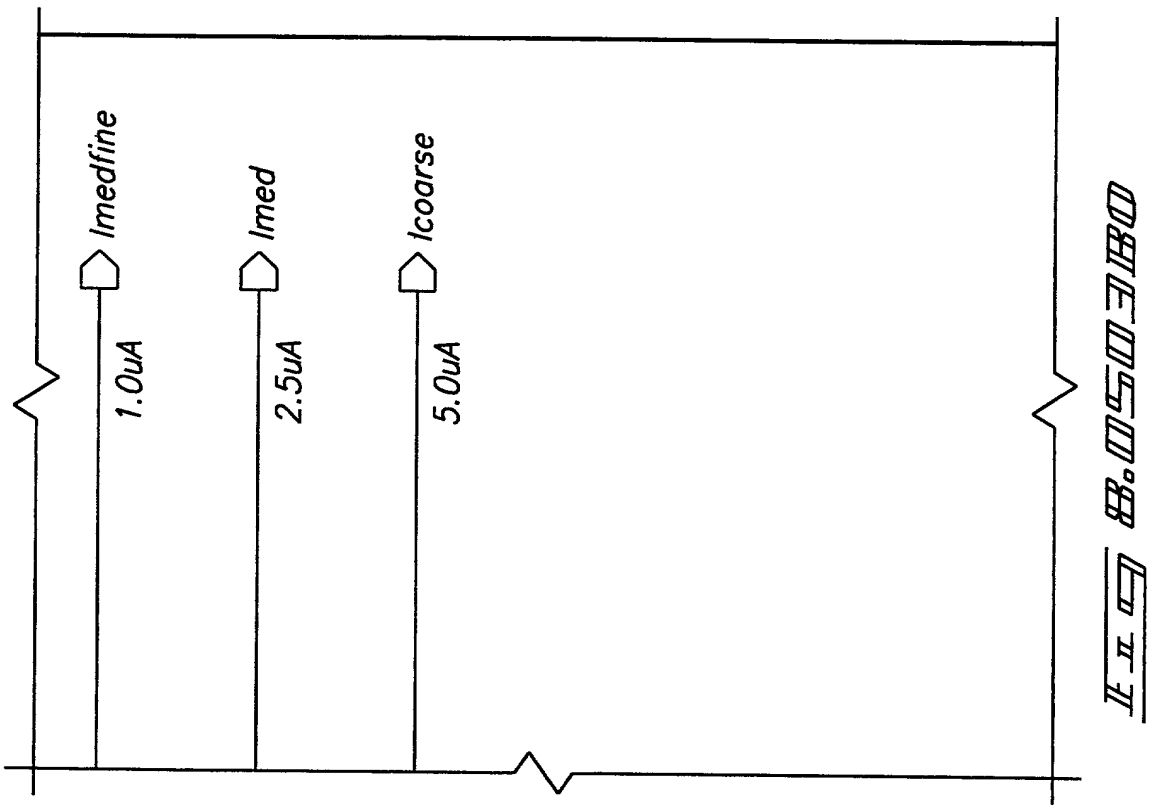
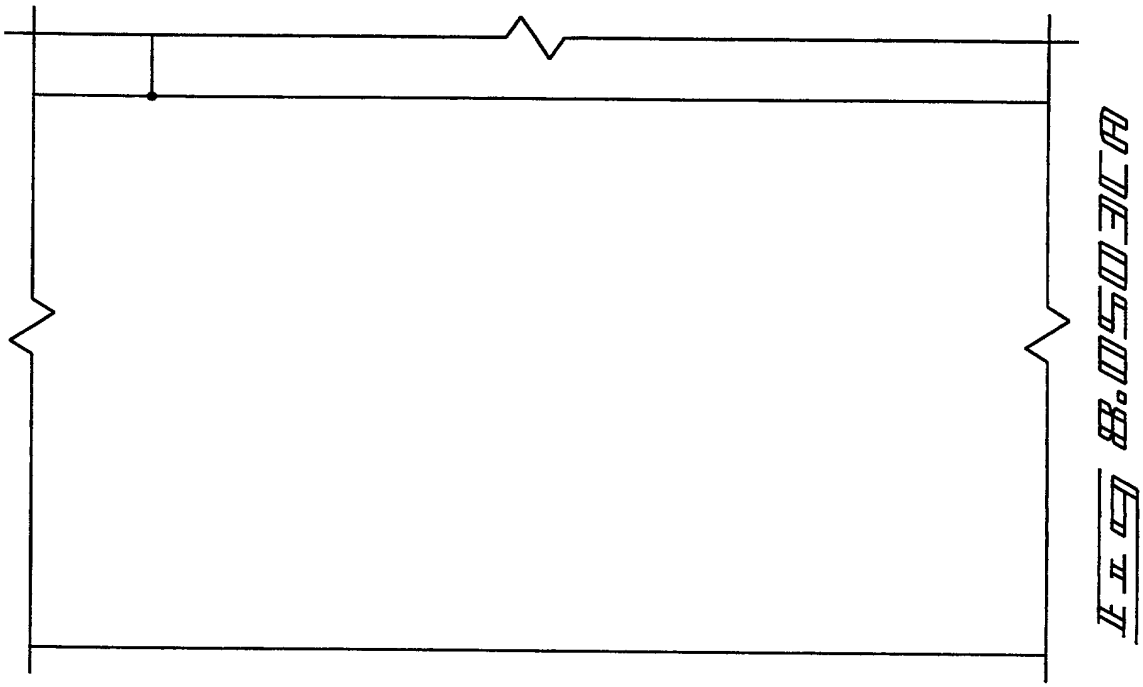

4u/2u
M240
"nch"
ldr=2u
wdr=4u
vss!
net7
PowerDown
vss!
4u/2u
M241
"nch"
ldr=2u
wdr=4u
vss!
lfine
PowerDown
vss!
4u/2u
M239
"nch"
ldr=2u
wdr=4u
vss!
net5859
PowerDown
vss!

FIG 88

1525/3273

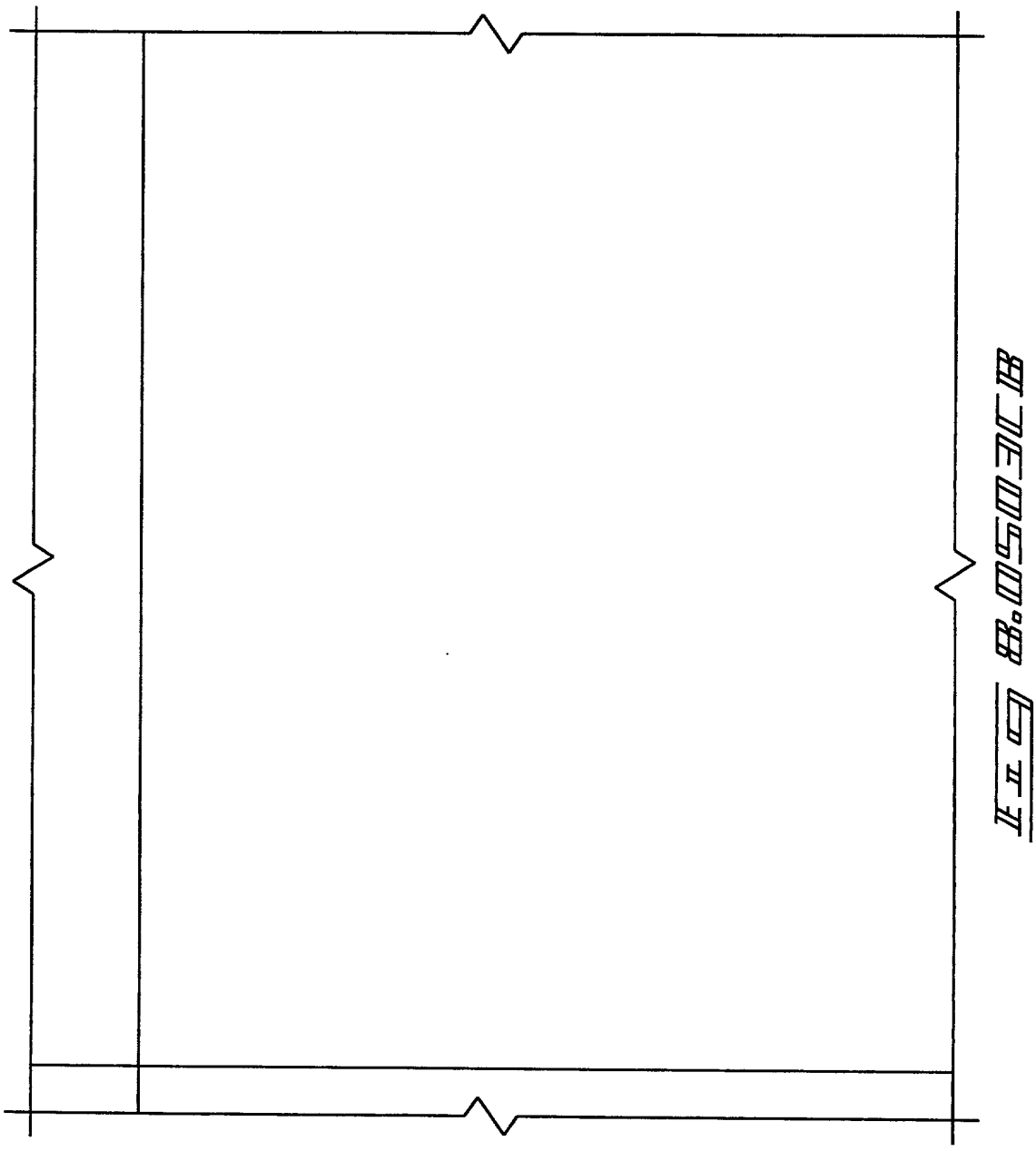
Document: 0525505 Page: 1 of 1


Imedfine
1.0uA
Imed
2.5uA
Icoarse
5.0uA
FIG 8

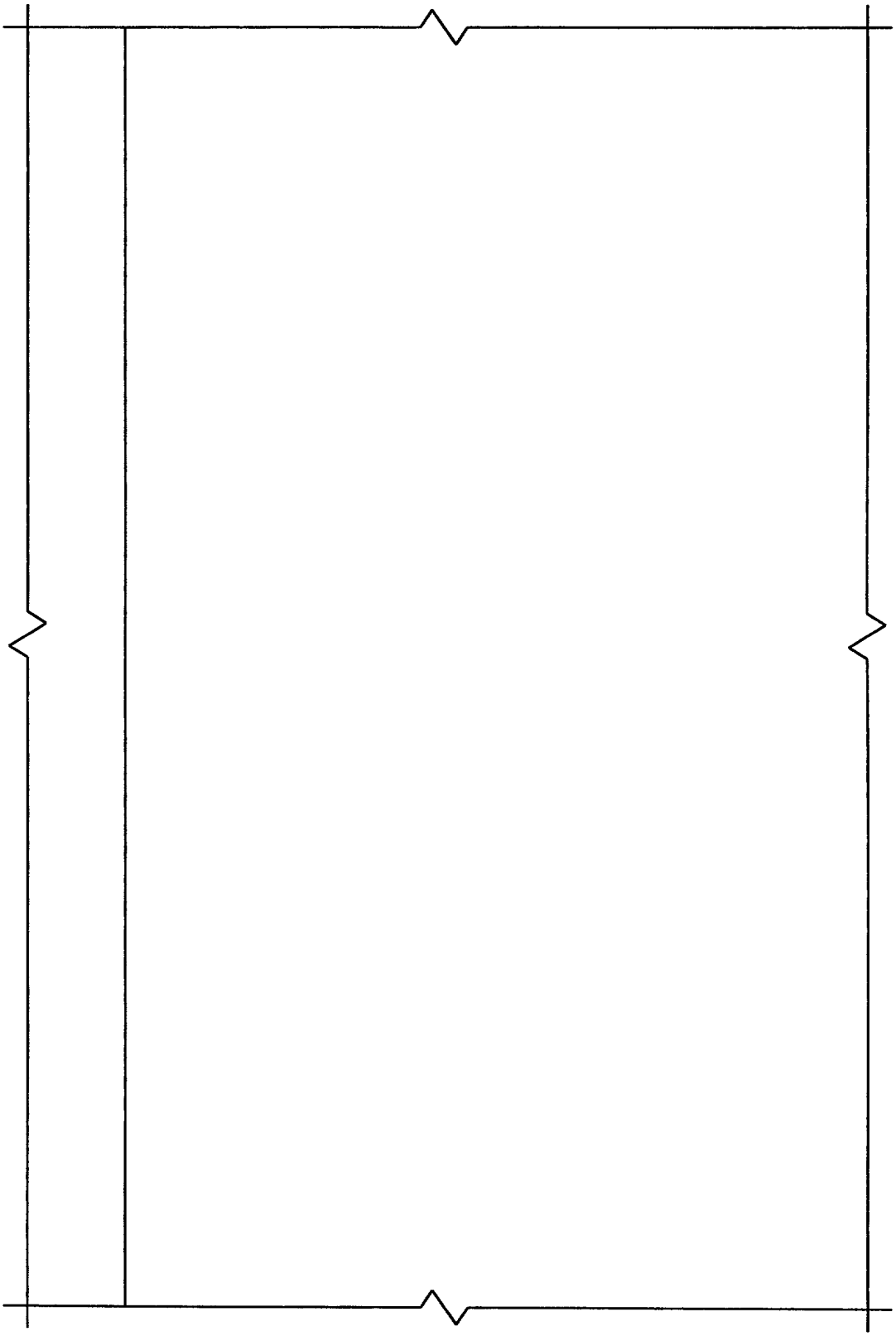


ЕВРОПАТЕНТ - 05.04.05

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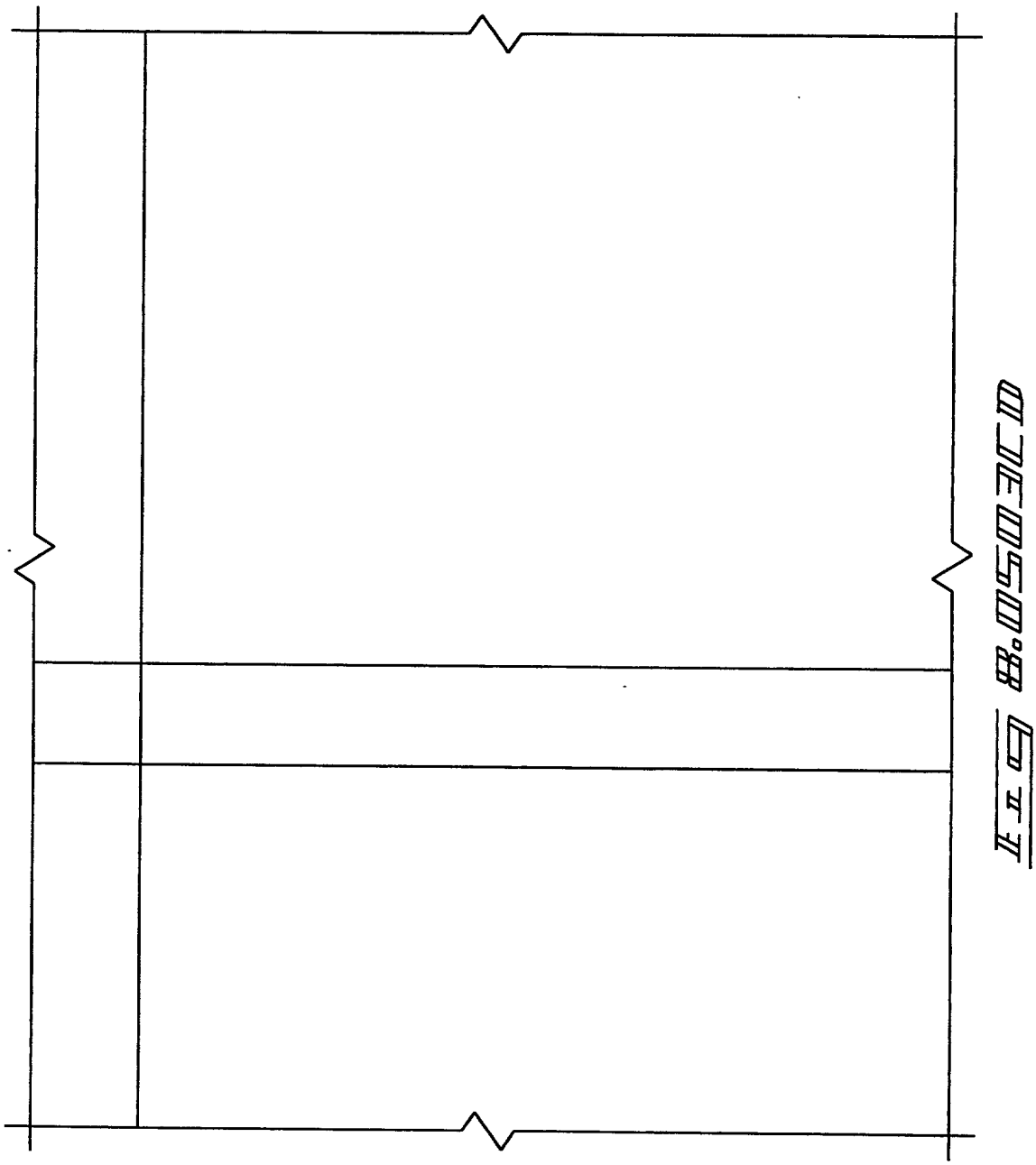


15281273 - 05-4-01

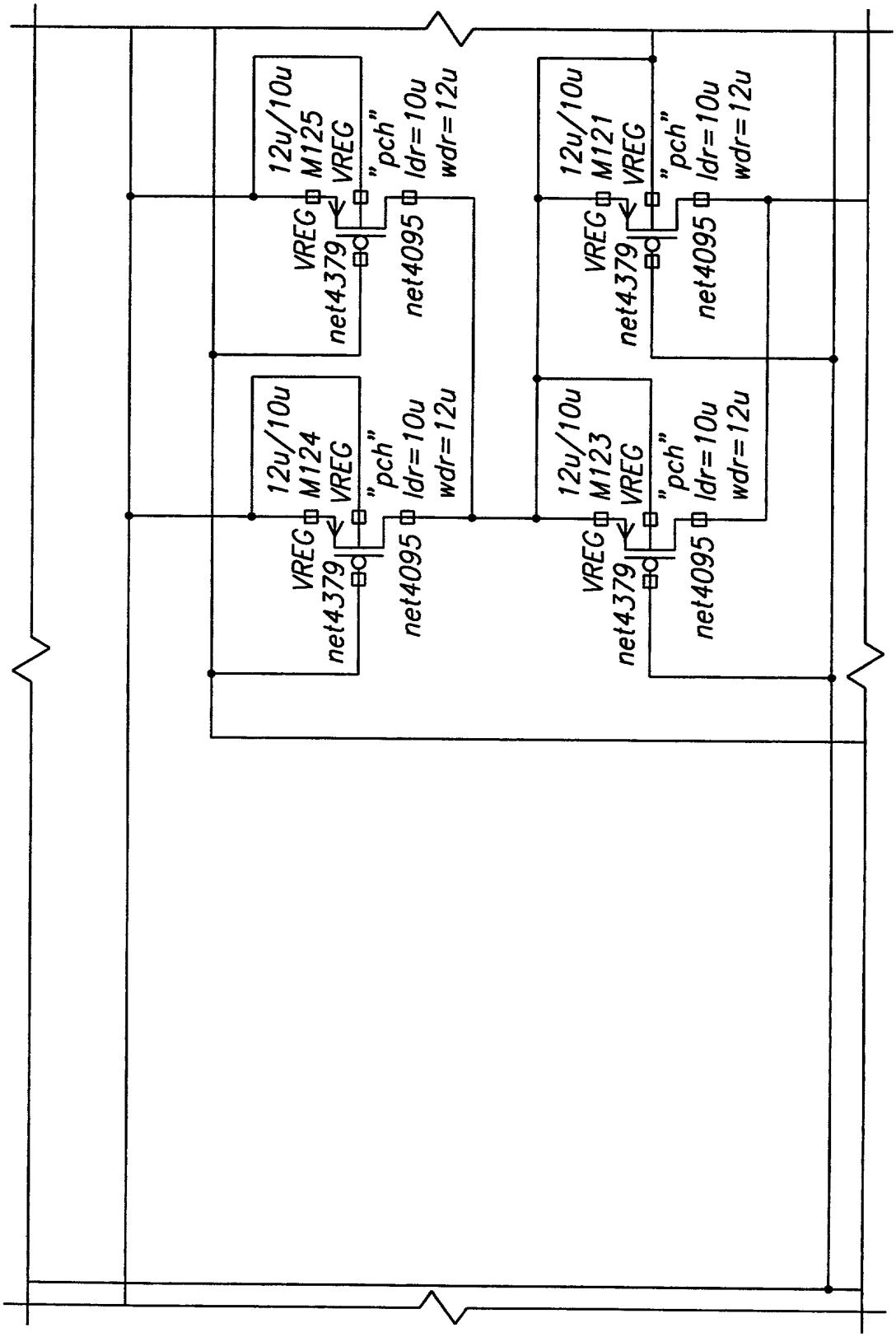


Document: 2015R0529D

1530/3273



Document: 95R2595



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US 6,954,910 B2

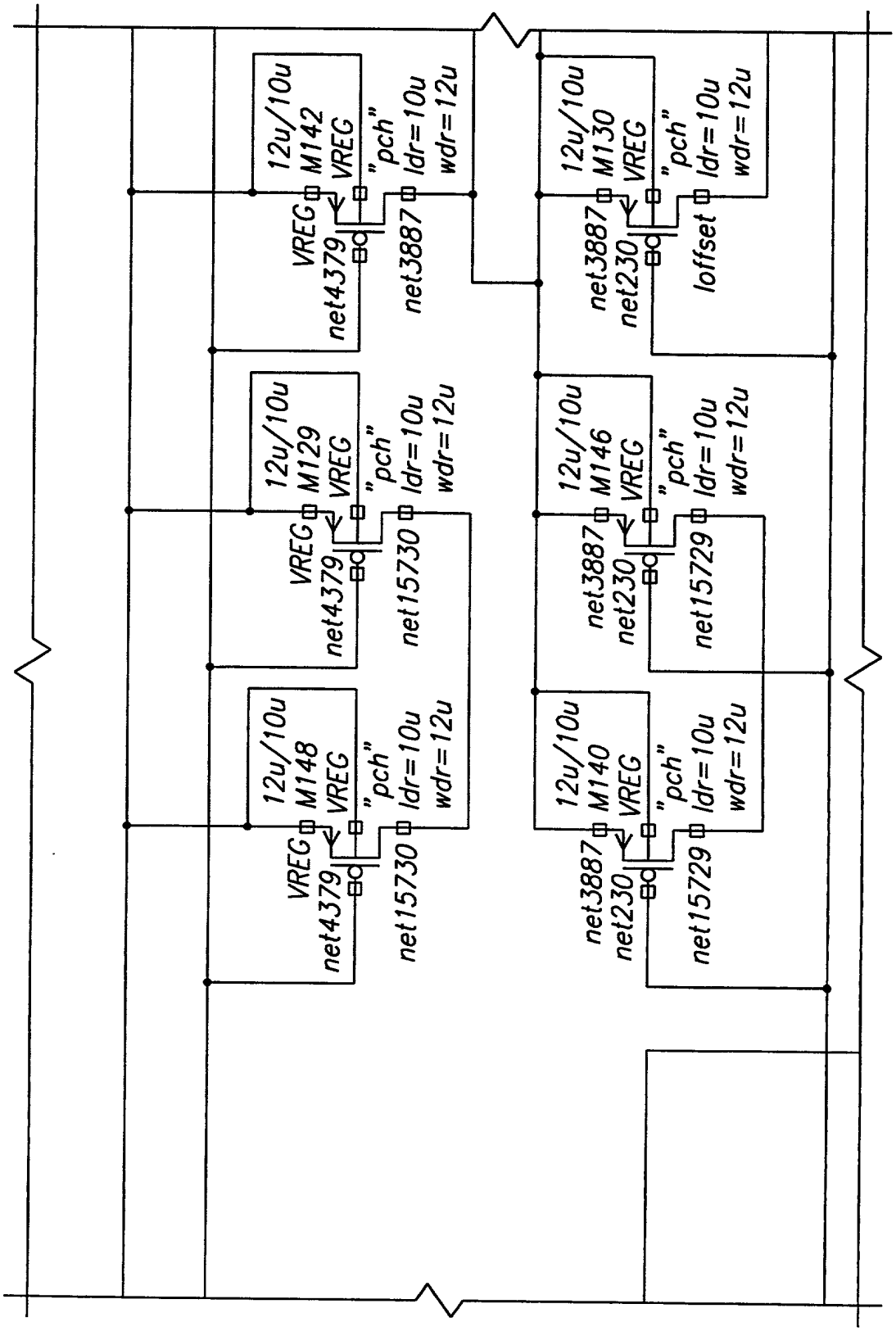

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net4379
net3887
12u/10u
M129
net15730
12u/10u
M148
12u/10u
M130
loffset
net230
12u/10u
M146
12u/10u
M140
net15729

FIG 88.0500

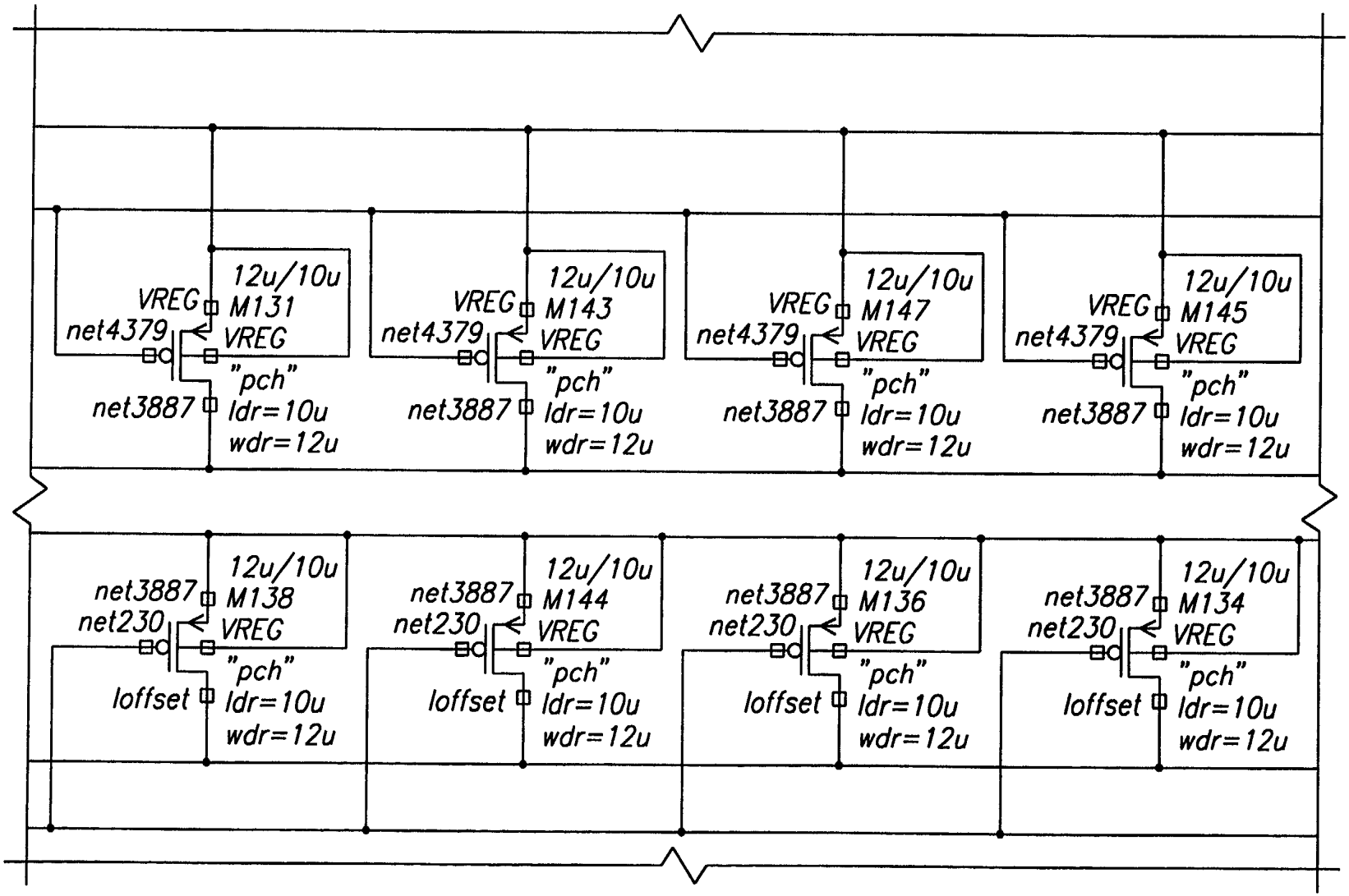

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net4379
VREG
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net3887
ldr=10u
wdr=12u
12u/10u
M143
VREG
net4379
VREG
"pch"
net3887
ldr=10u
wdr=12u
12u/10u
M147
VREG
net4379
VREG
"pch"
net3887
ldr=10u
wdr=12u
12u/10u
M145
VREG
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net3887
ldr=10u
wdr=12u
12u/10u
M138
net3887
net230
VREG
"pch"
loffset
ldr=10u
wdr=12u
12u/10u
M144
net3887
net230
VREG
"pch"
loffset
ldr=10u
wdr=12u
12u/10u
M136
net3887
net230
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"pch"
loffset
ldr=10u
wdr=12u
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net230
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loffset
ldr=10u
wdr=12u

Fig 8.0503C6

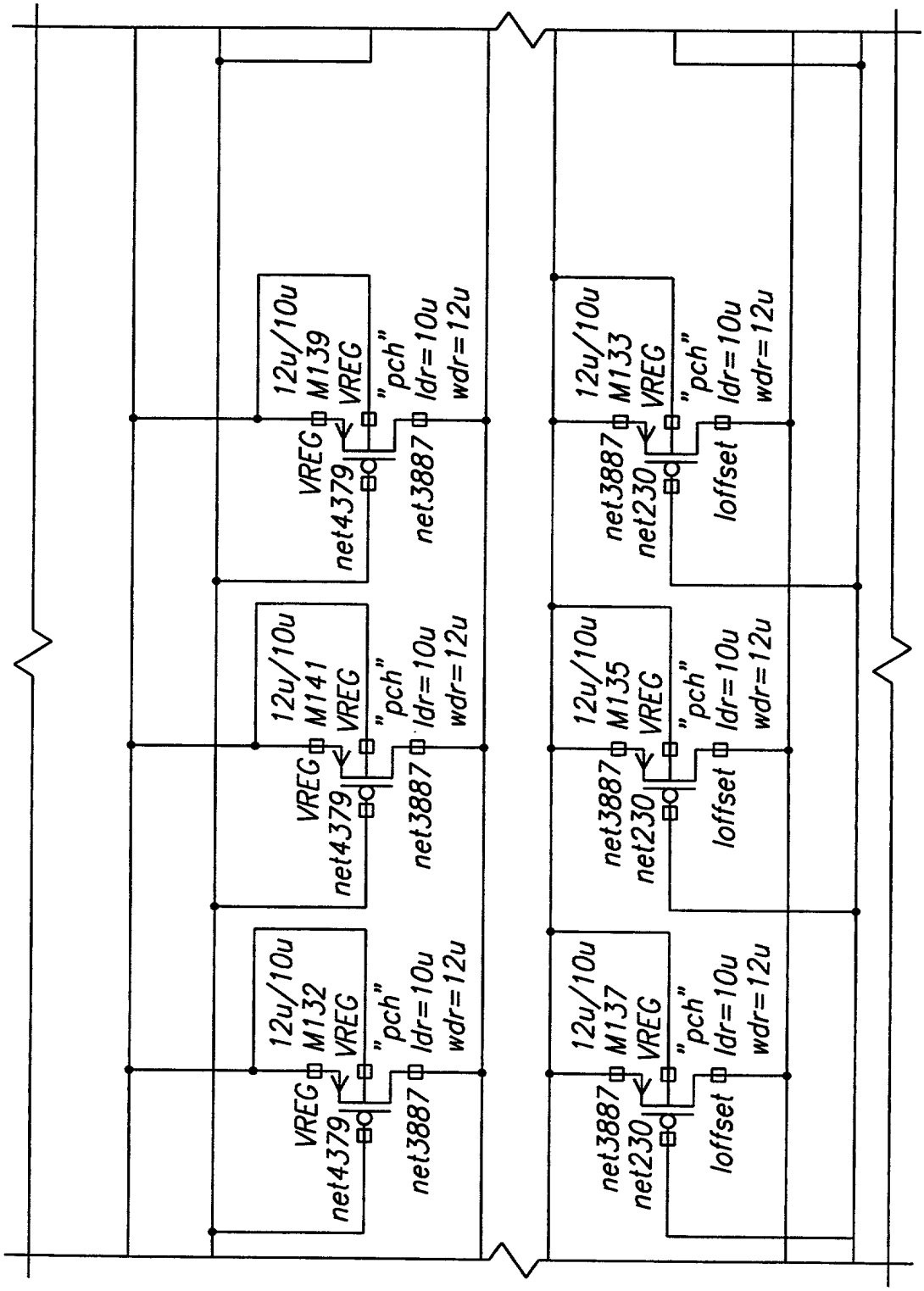


FIG 8.0500 PRIOR ART

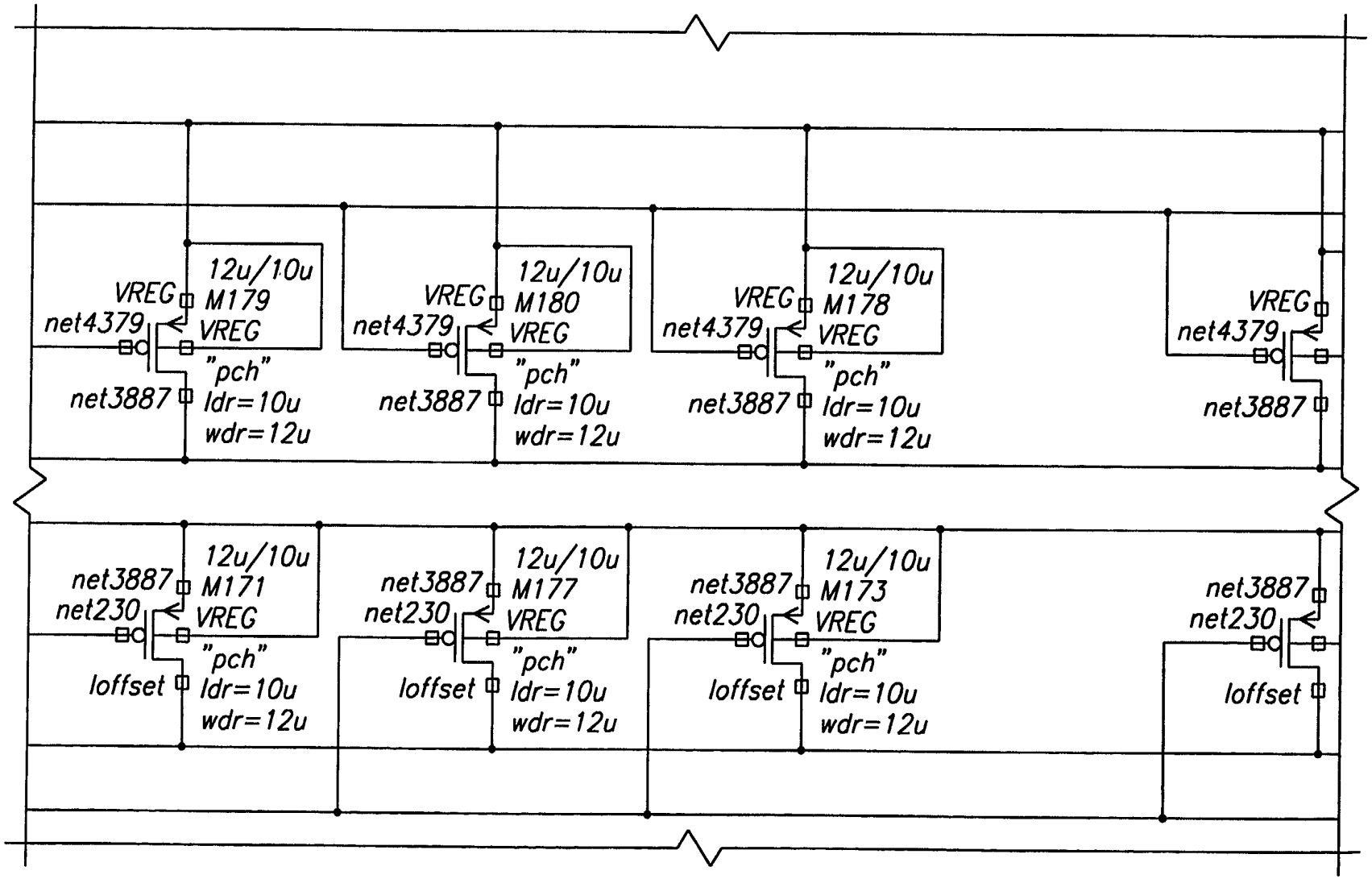


Fig 8.0503CII

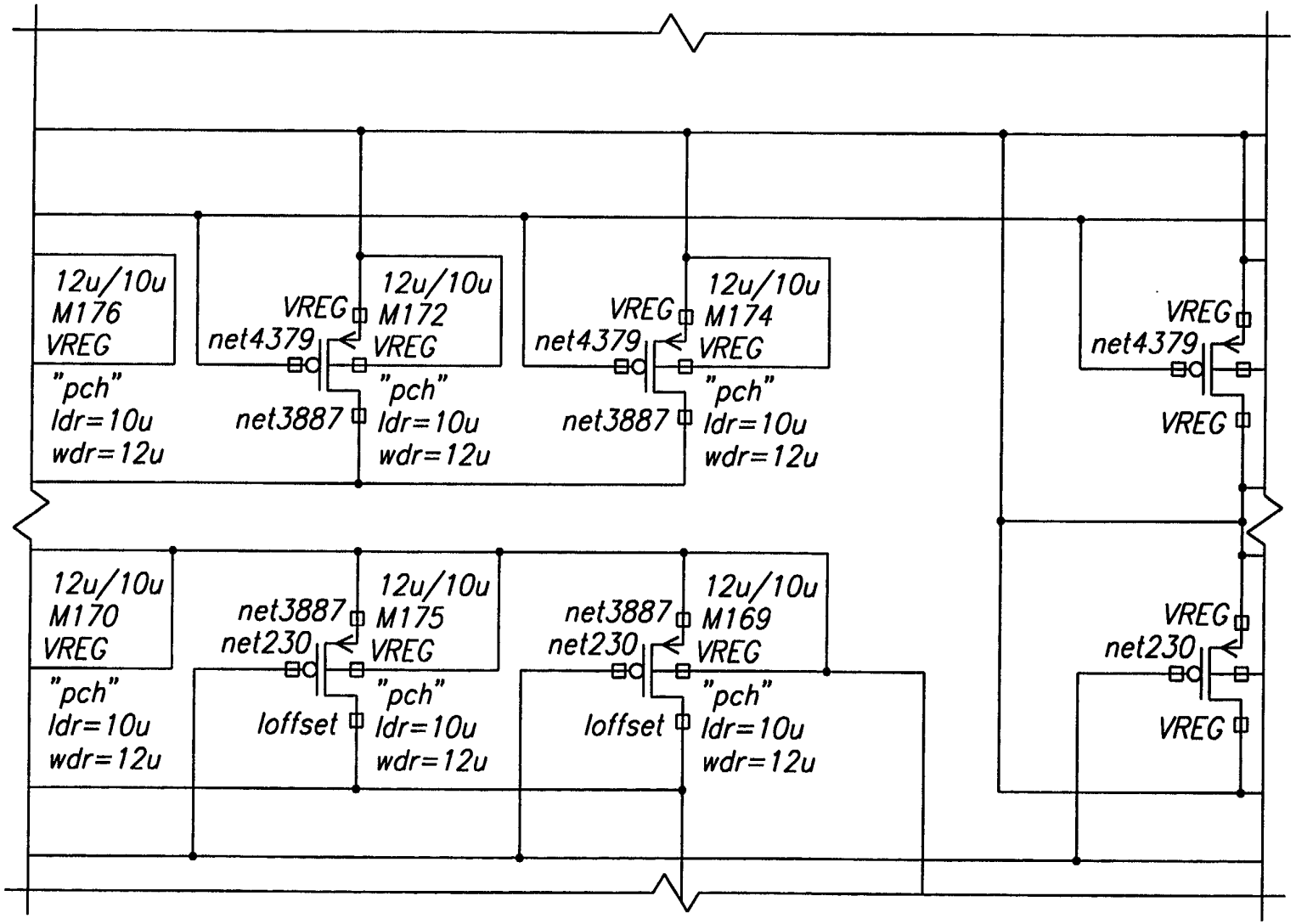


Fig 8.050(c)

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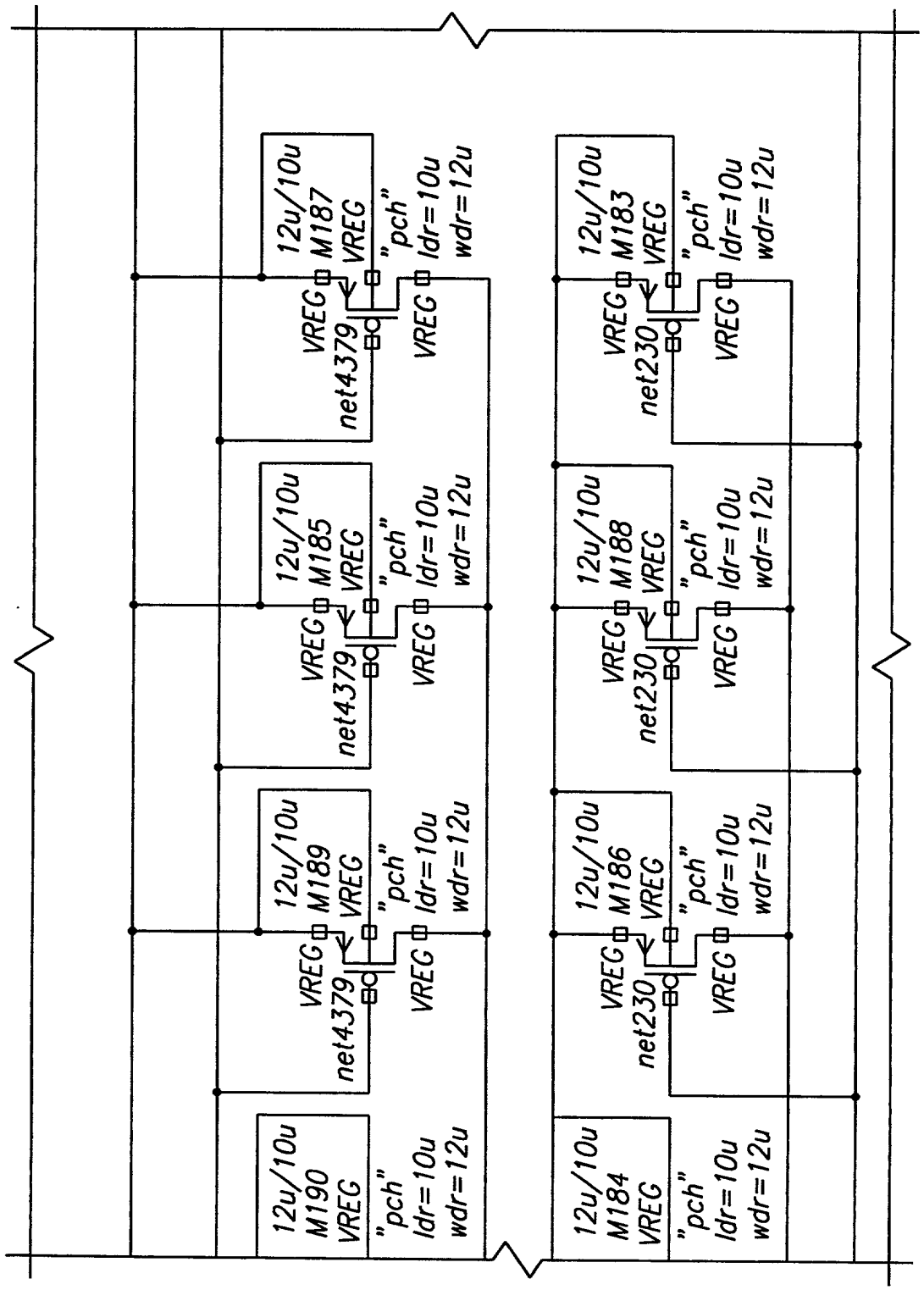

12u/10u
M190
VREG
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wdr=12u
12u/10u
M189
VREG
"pch"
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wdr=12u
VREG
net4379
VREG
12u/10u
M185
VREG
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ldr=10u
wdr=12u
VREG
net4379
VREG
12u/10u
M187
VREG
"pch"
ldr=10u
wdr=12u
VREG
net4379
VREG
12u/10u
M184
VREG
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ldr=10u
wdr=12u
12u/10u
M186
VREG
"pch"
ldr=10u
wdr=12u
VREG
net230
VREG
12u/10u
M188
VREG
"pch"
ldr=10u
wdr=12u
VREG
net230
VREG
12u/10u
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wdr=12u
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net230
VREG

FIG 8.005

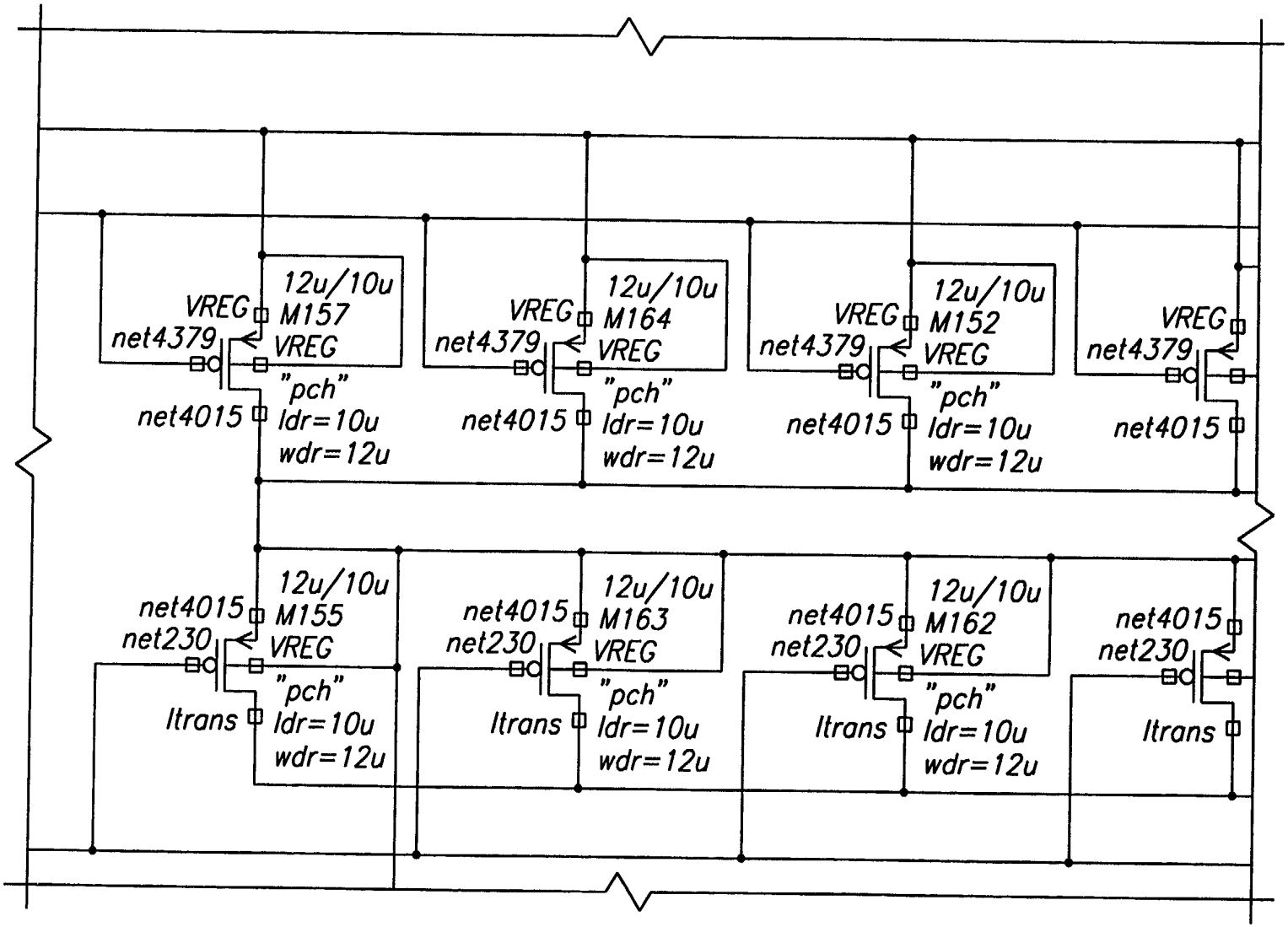

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VREG
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net4015
ldr=10u
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12u/10u
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VREG
net4379
VREG
"pch"
net4015
ldr=10u
wdr=12u
12u/10u
M152
VREG
net4379
VREG
"pch"
net4015
ldr=10u
wdr=12u
VREG
net4379
net4015
12u/10u
M155
net4015
net230
VREG
"pch"
Itrans
ldr=10u
wdr=12u
12u/10u
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ldr=10u
wdr=12u
12u/10u
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Fig 8.0503CL

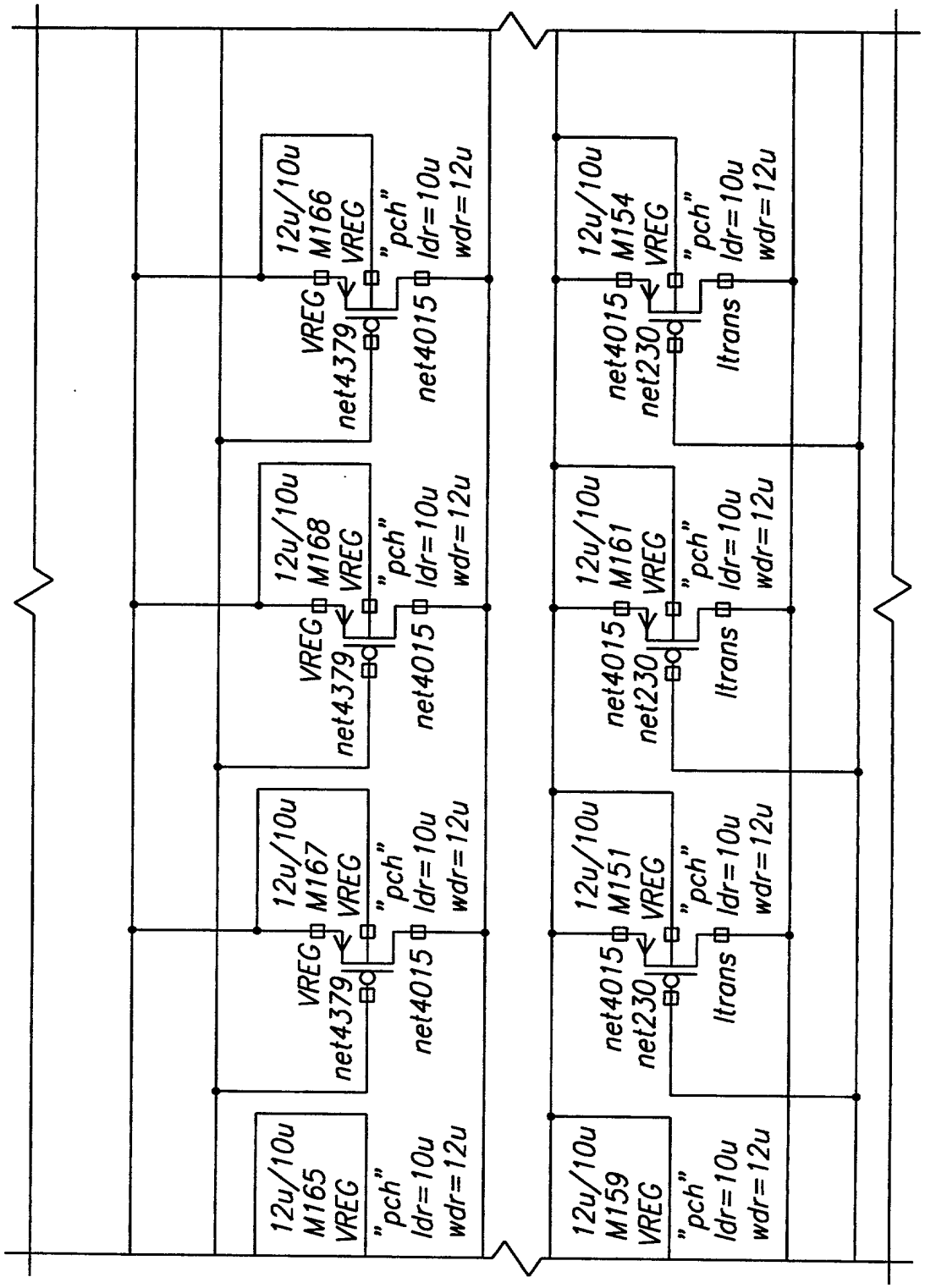


FIG 8.8 WLDE0508

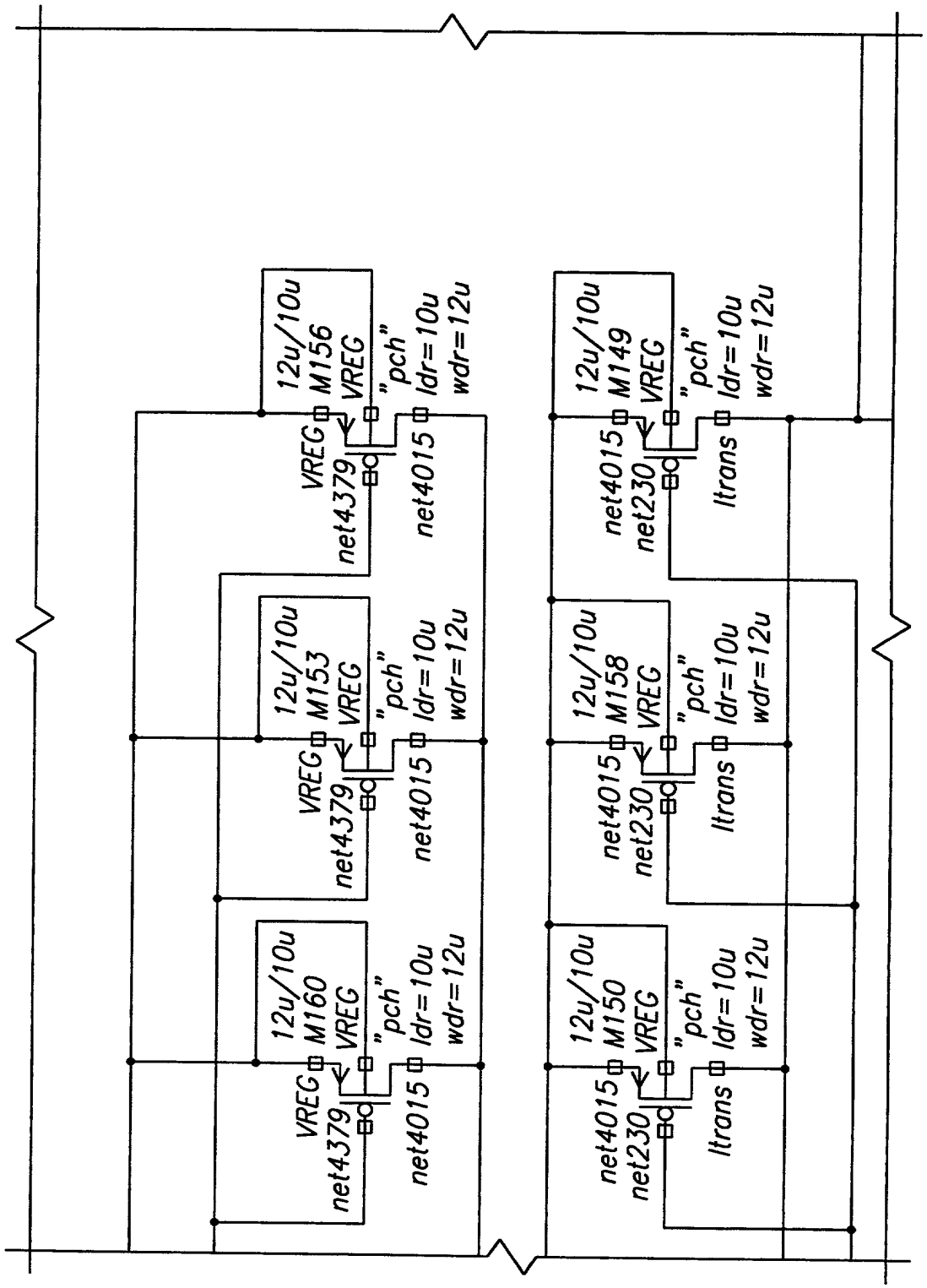
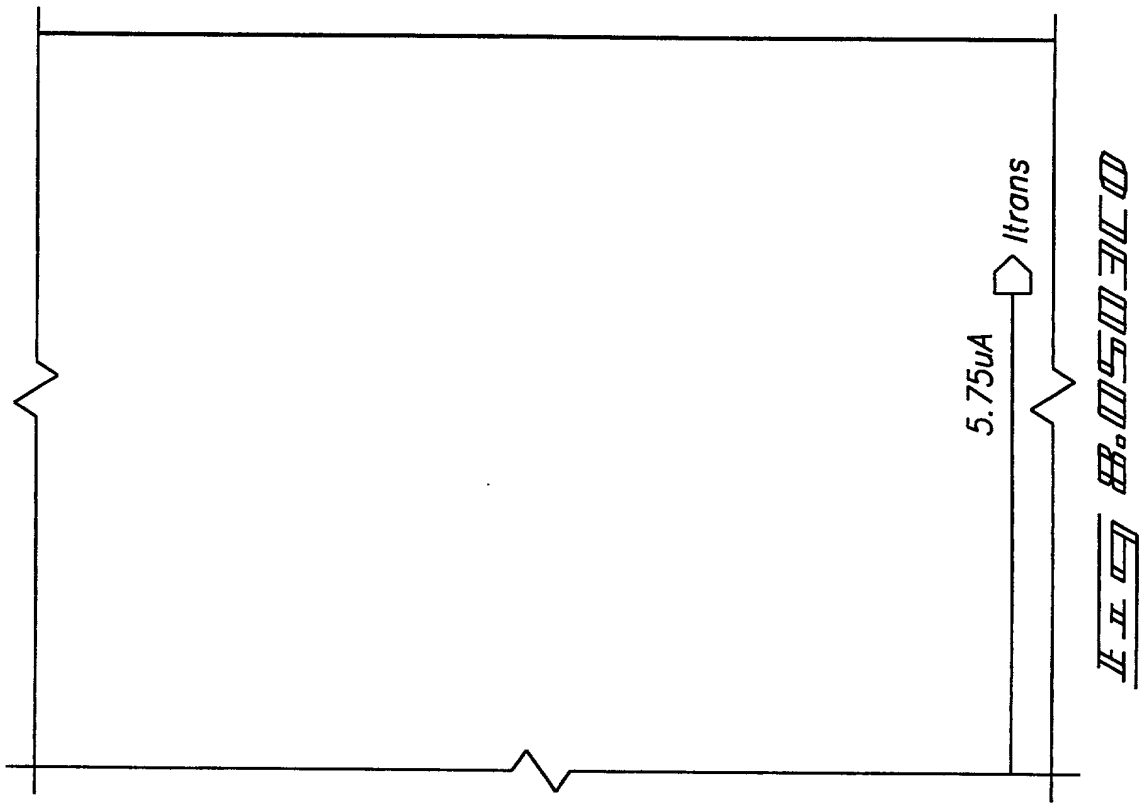
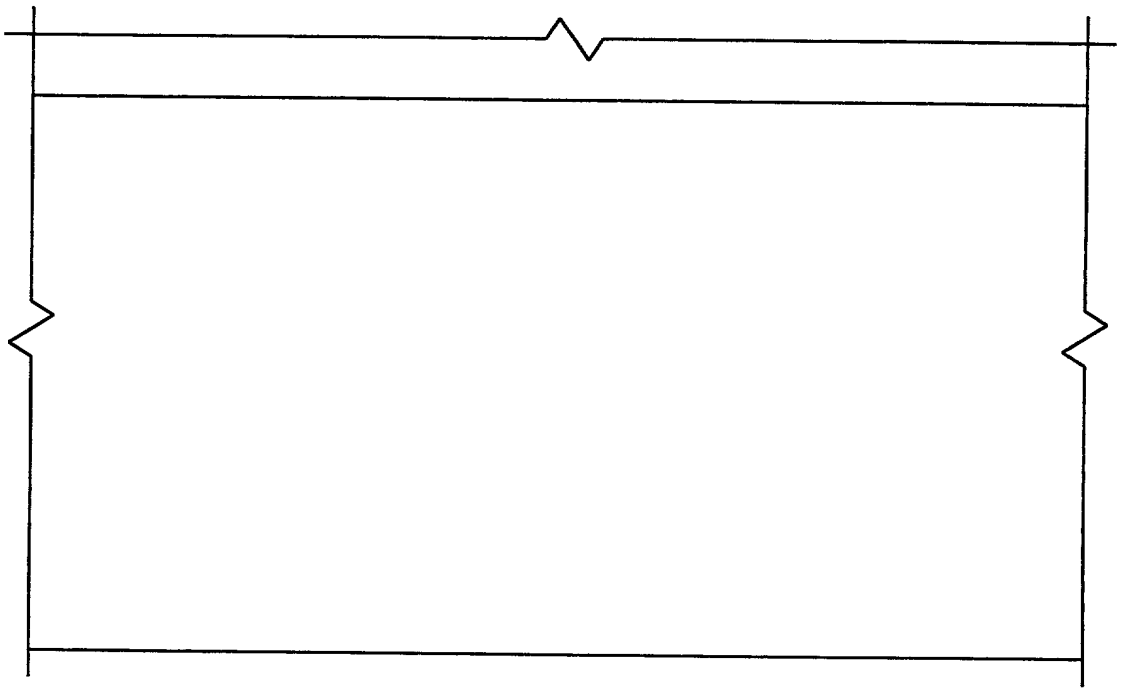


FIG 8.0500 NDE

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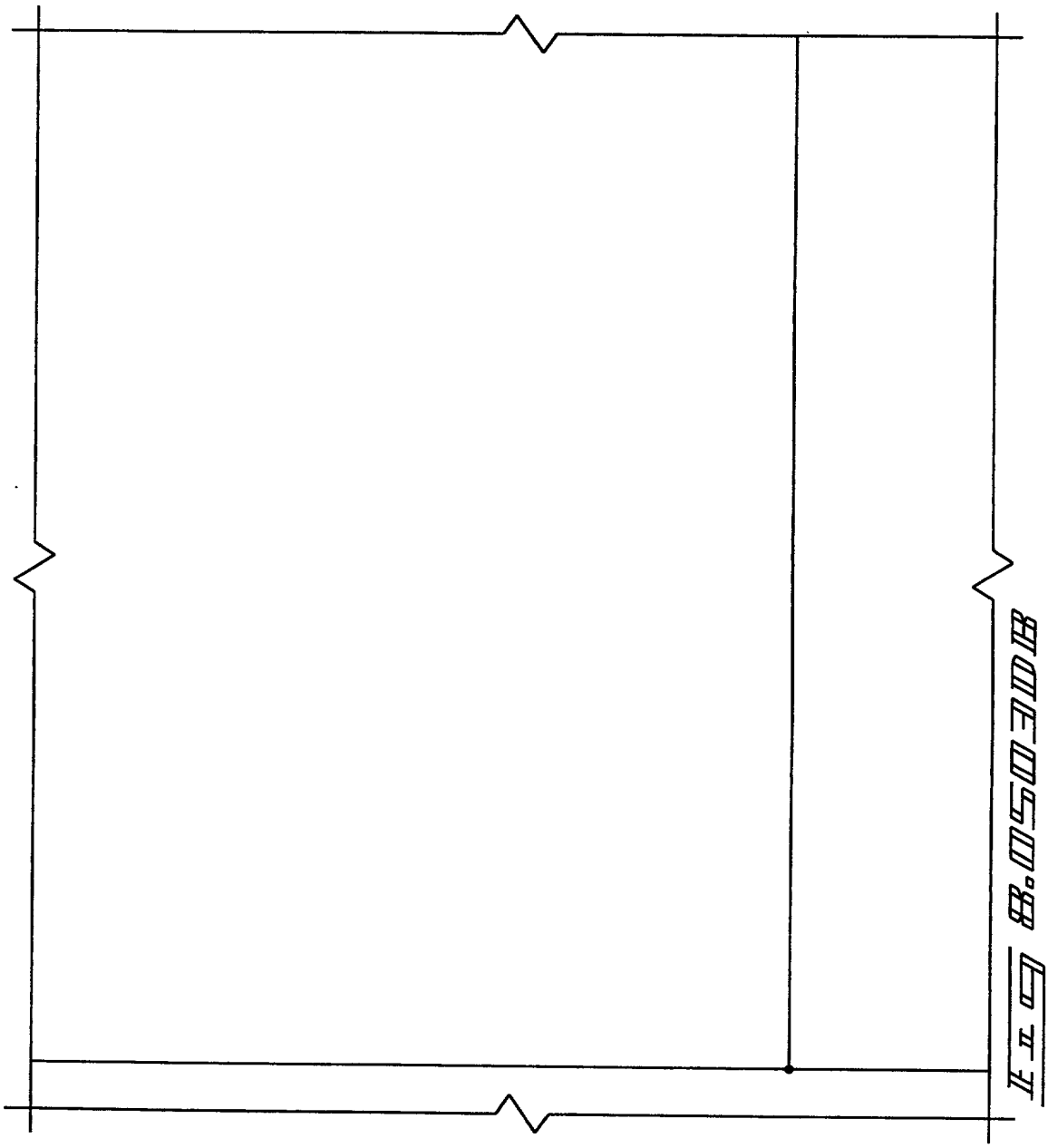
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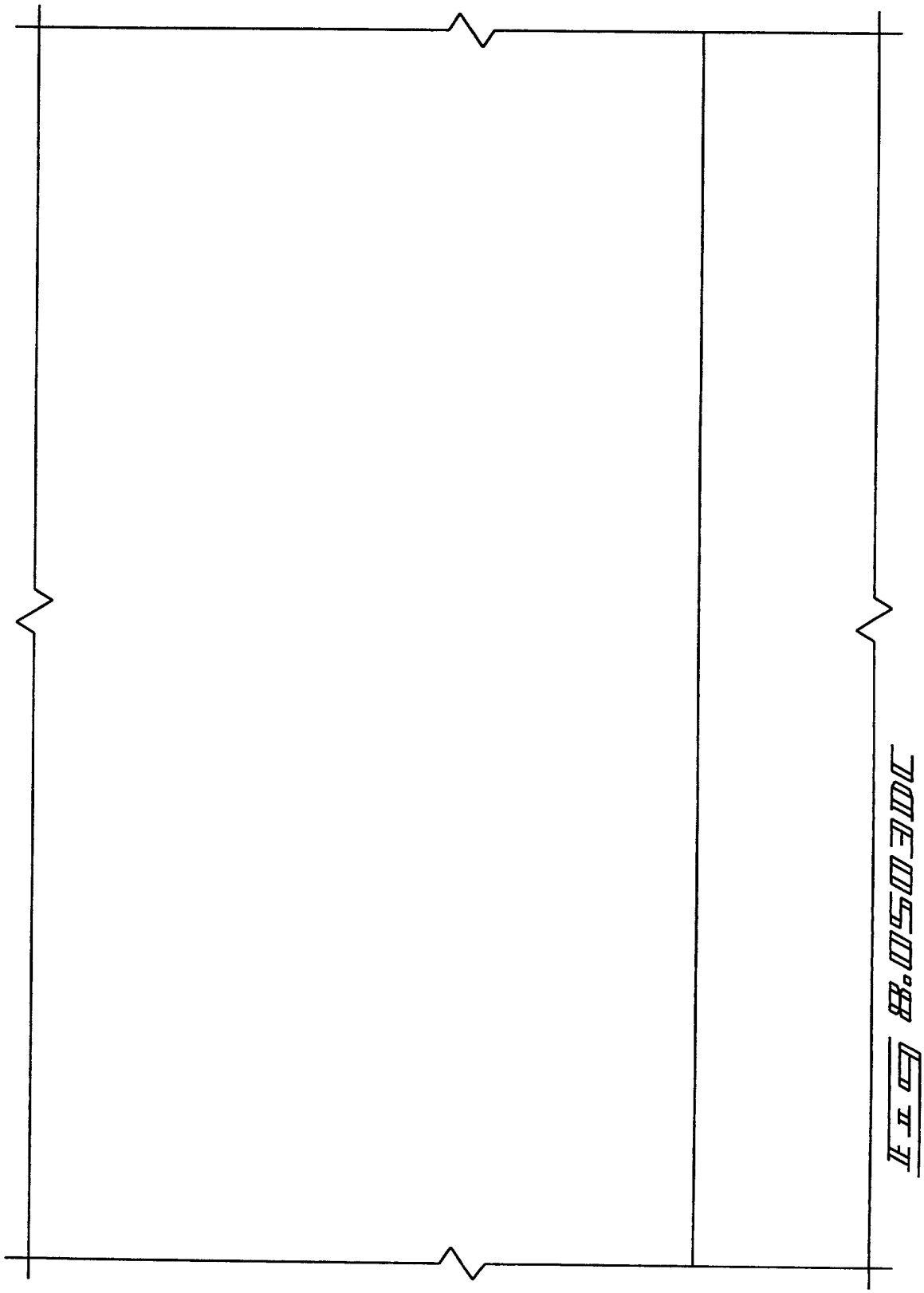
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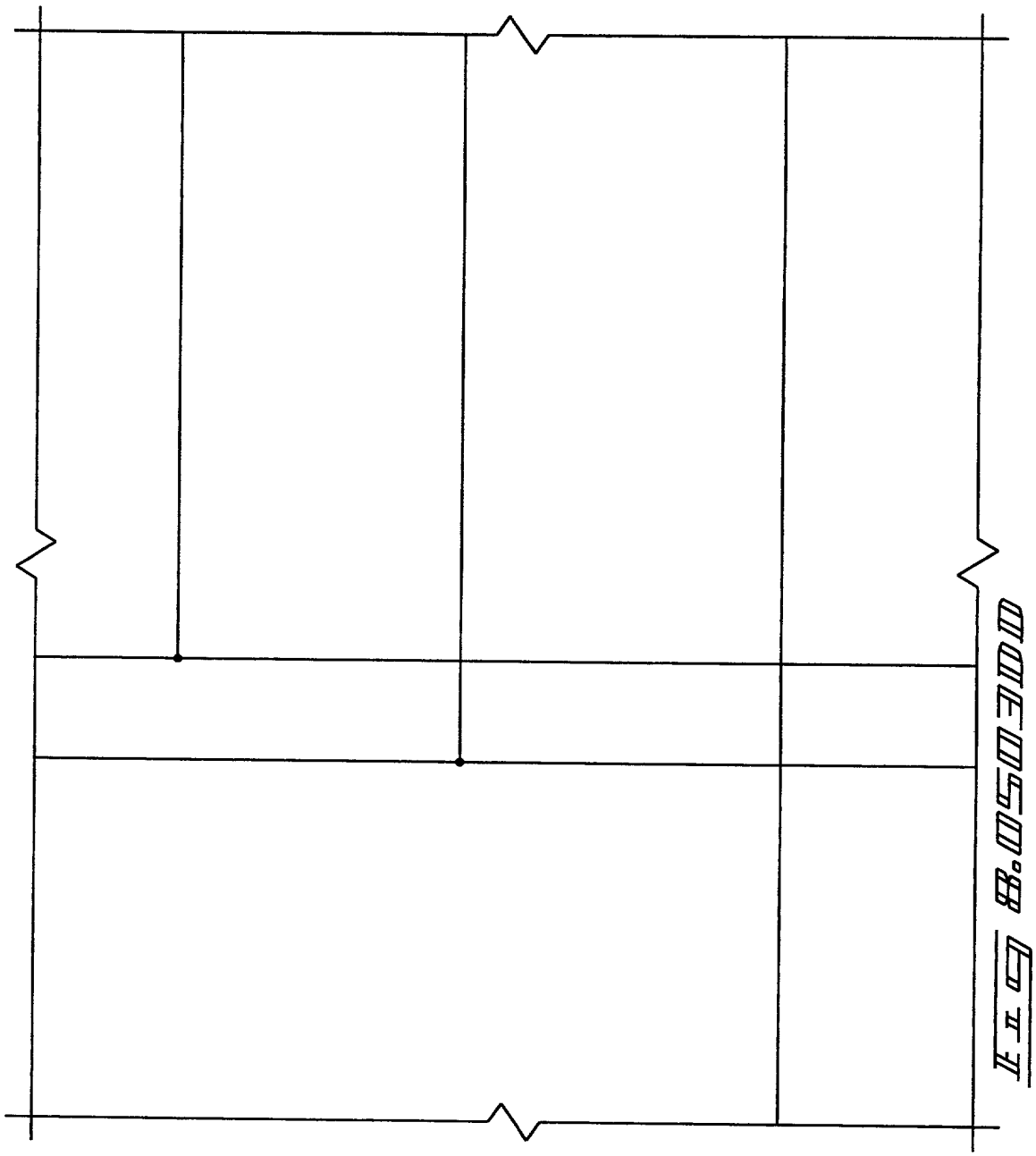
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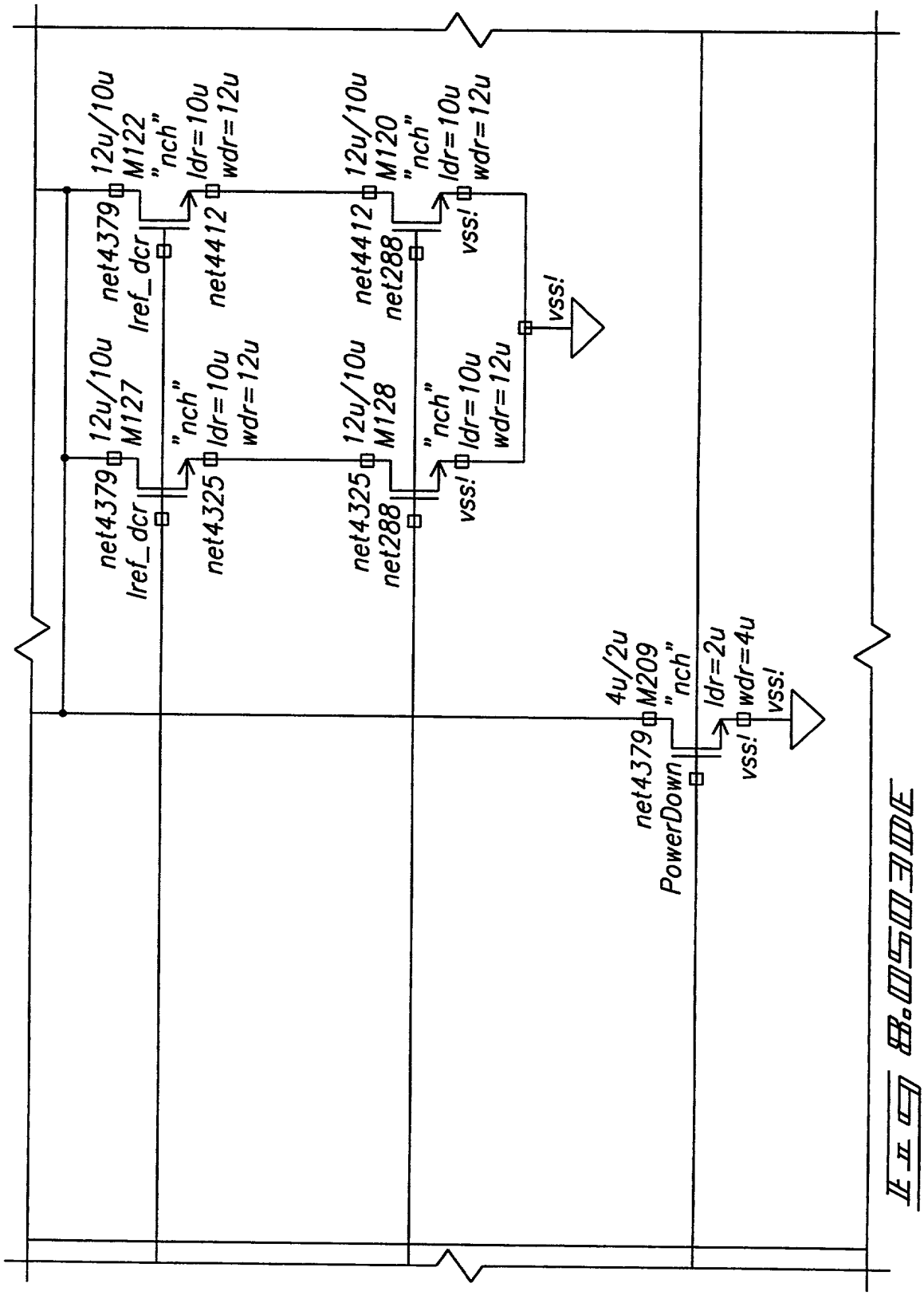


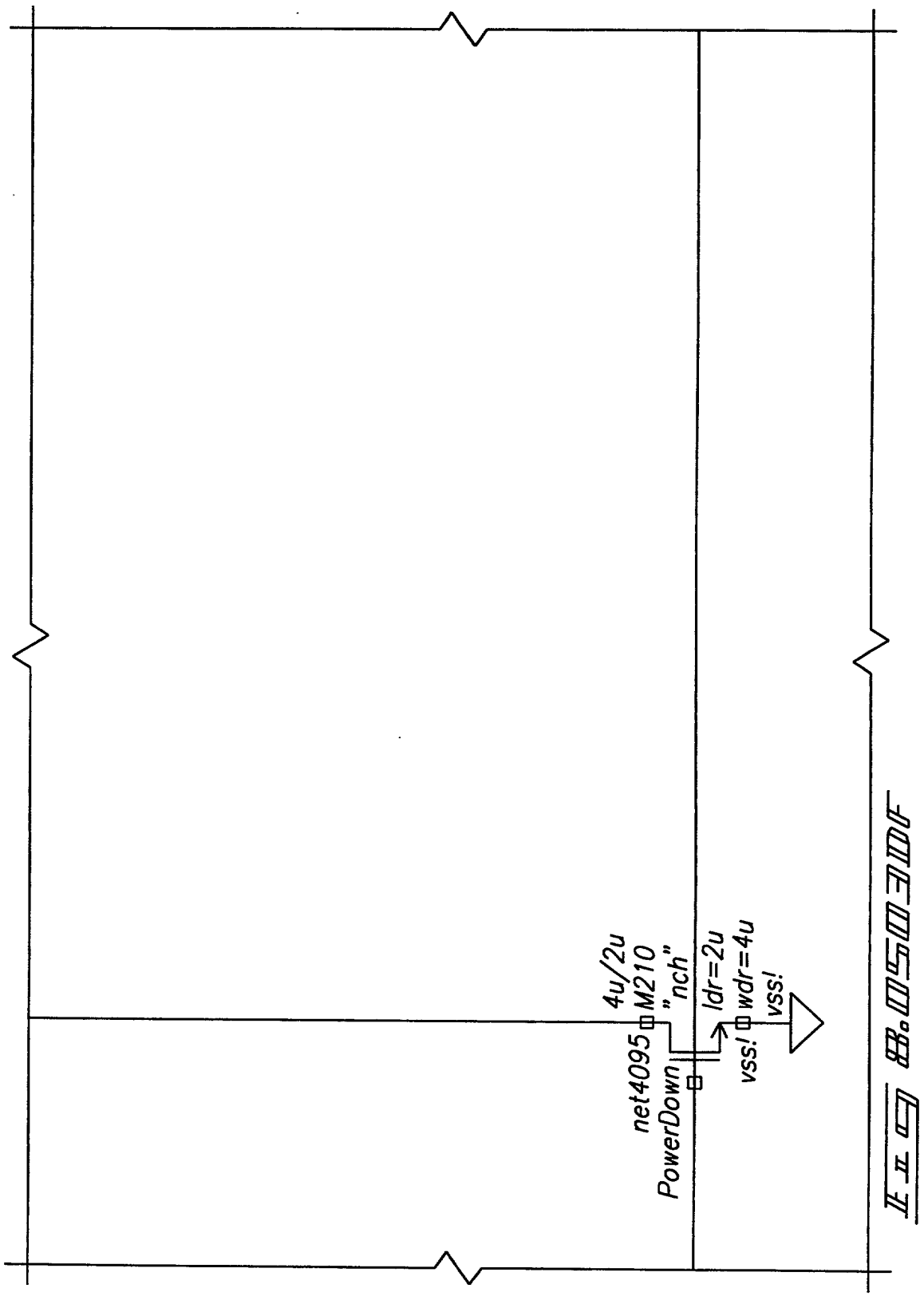
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0562265 - 06/30/04

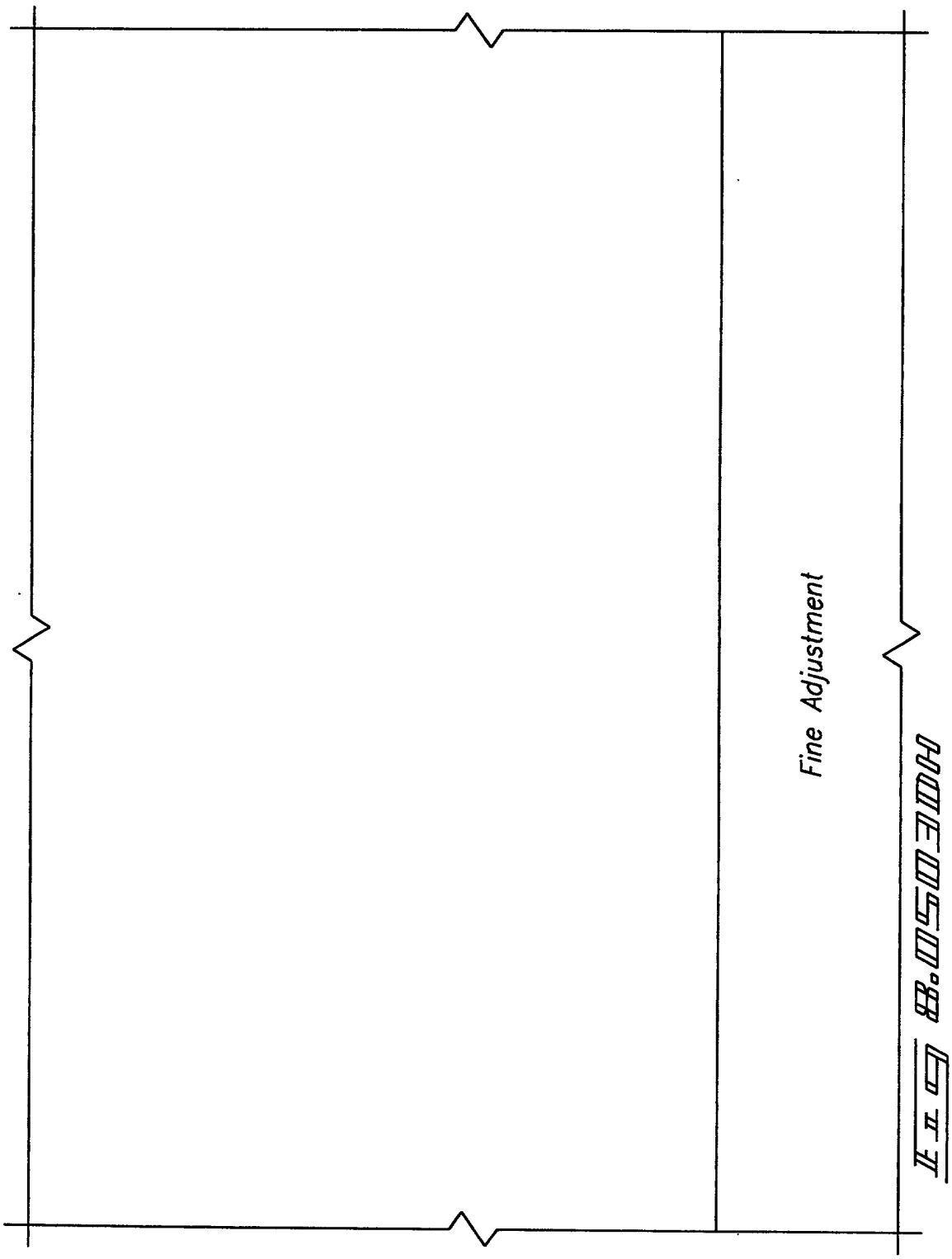

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12u/10u
M120
"nch"
ldr=10u
wdr=12u
net4412
net288
vss!
vss!
12u/10u
M127
"nch"
ldr=10u
wdr=12u
net4379
lref_dcr
net4325
12u/10u
M128
"nch"
ldr=10u
wdr=12u
net4325
net288
vss!
4u/2u
M209
"nch"
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vss!
EDSD 8.05.0E



US 6,515,529 B2 Feb. 4, 2003

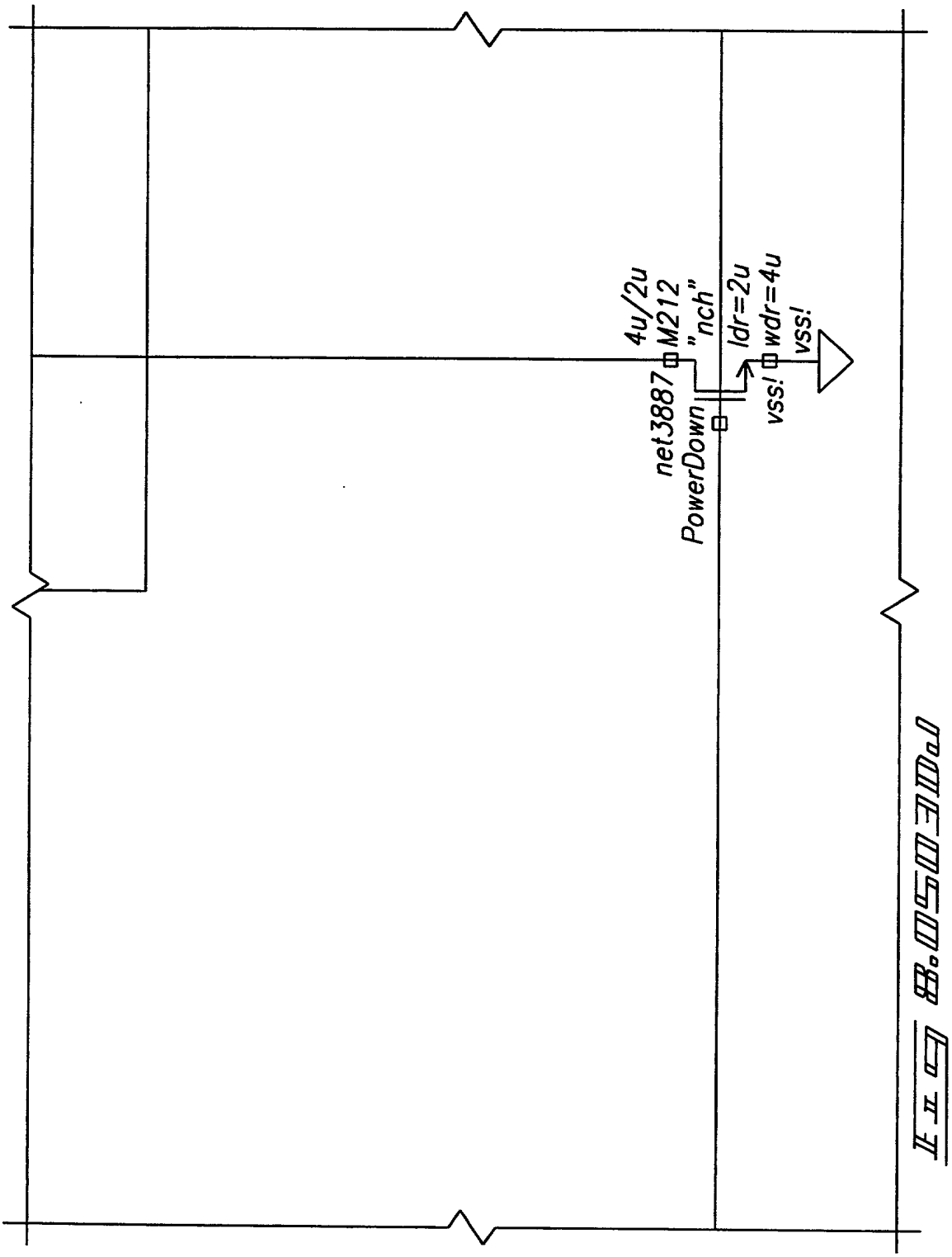
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9662565 - 6/5/2015



Patent Application Publication

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4u/2u
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net3887
PowerDown
vss!

Patent Document

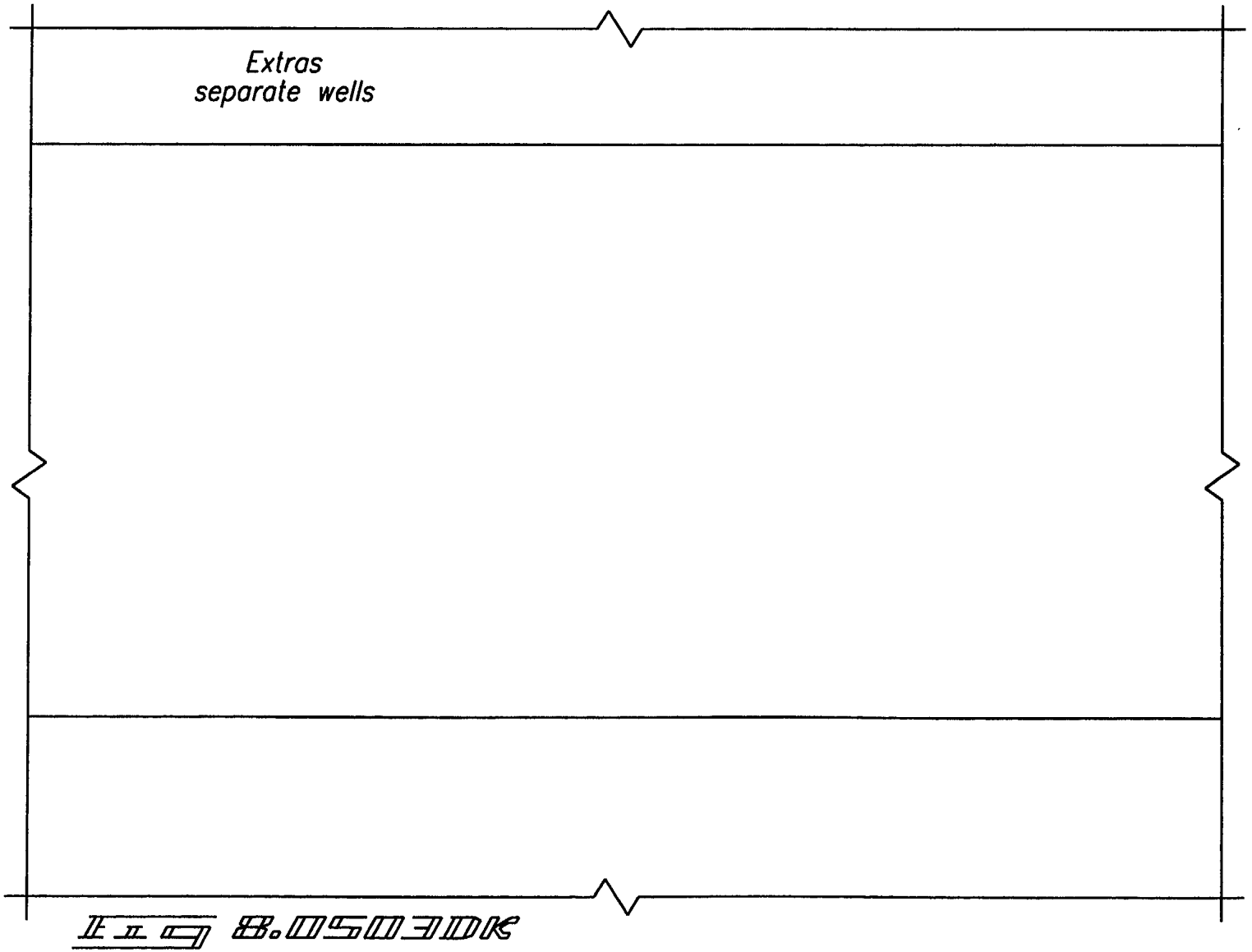
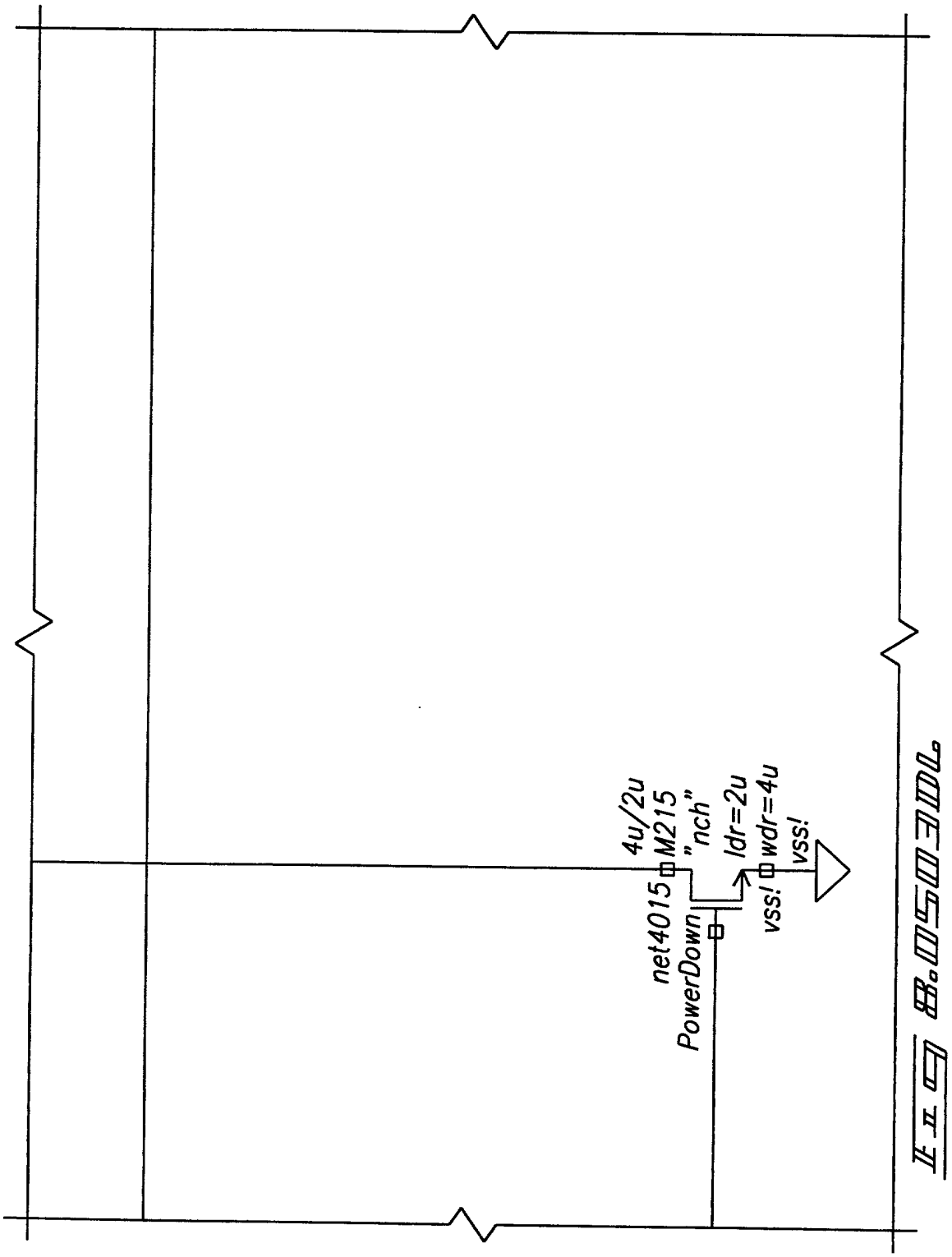
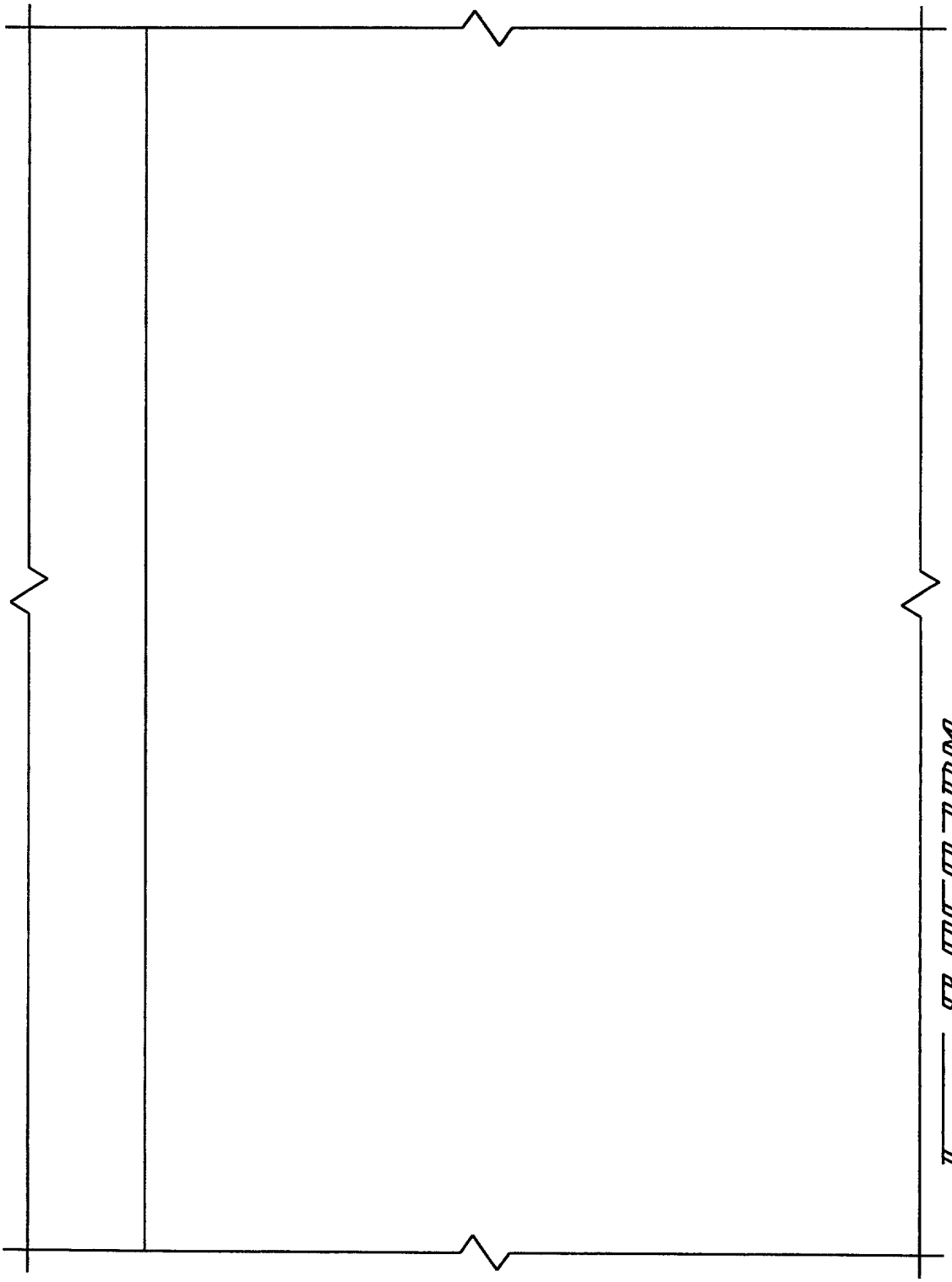


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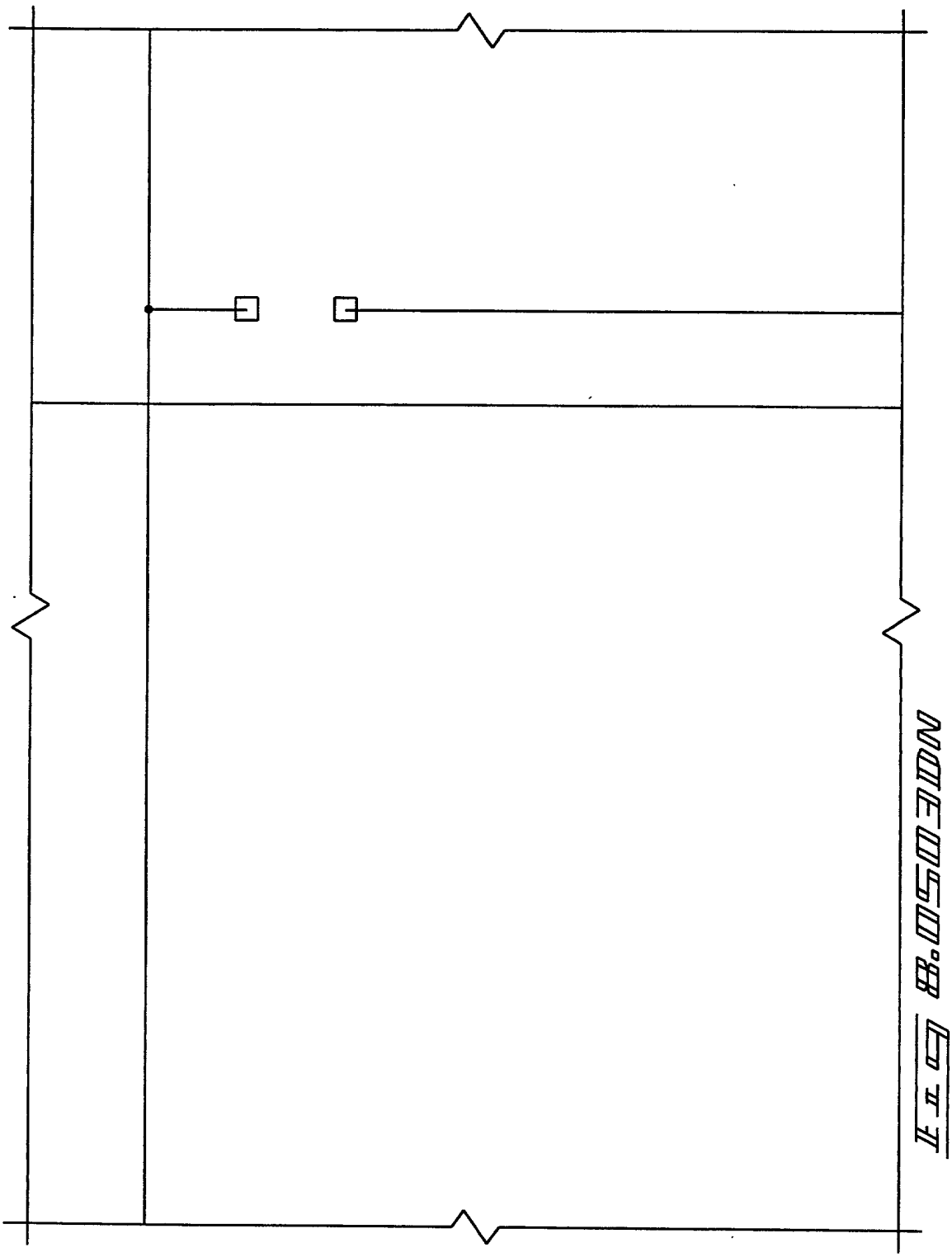

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1554/3273



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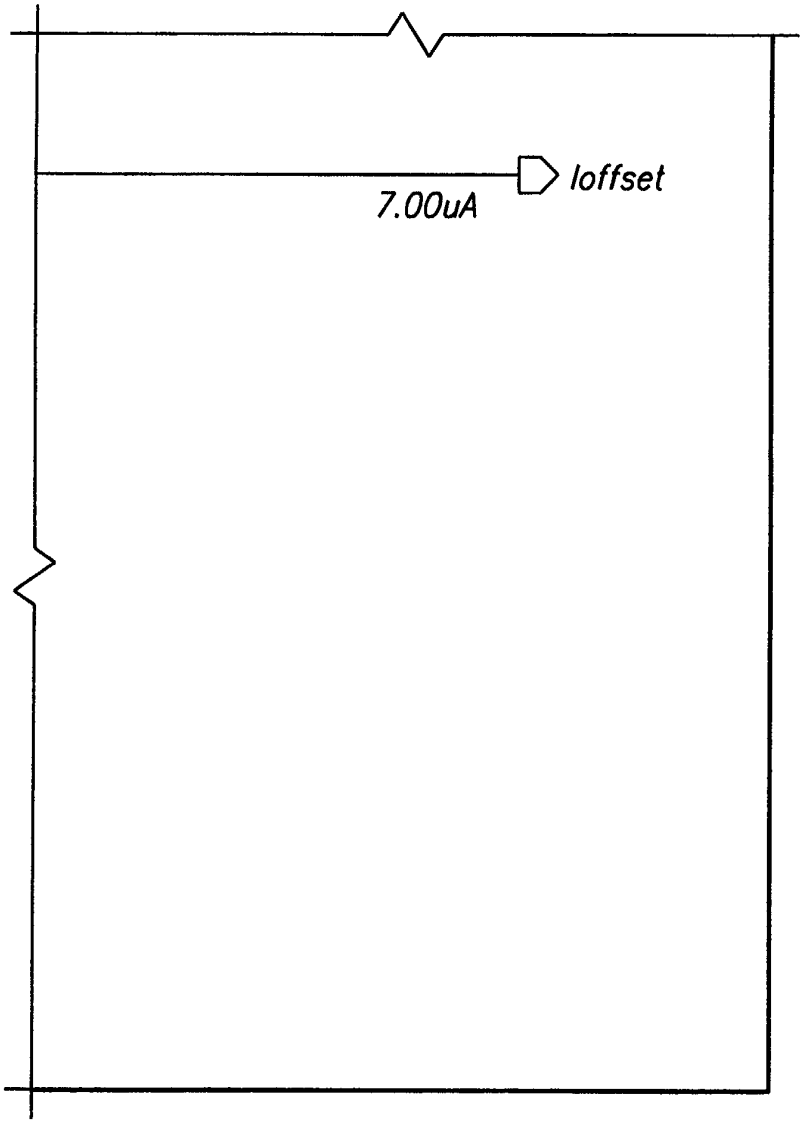
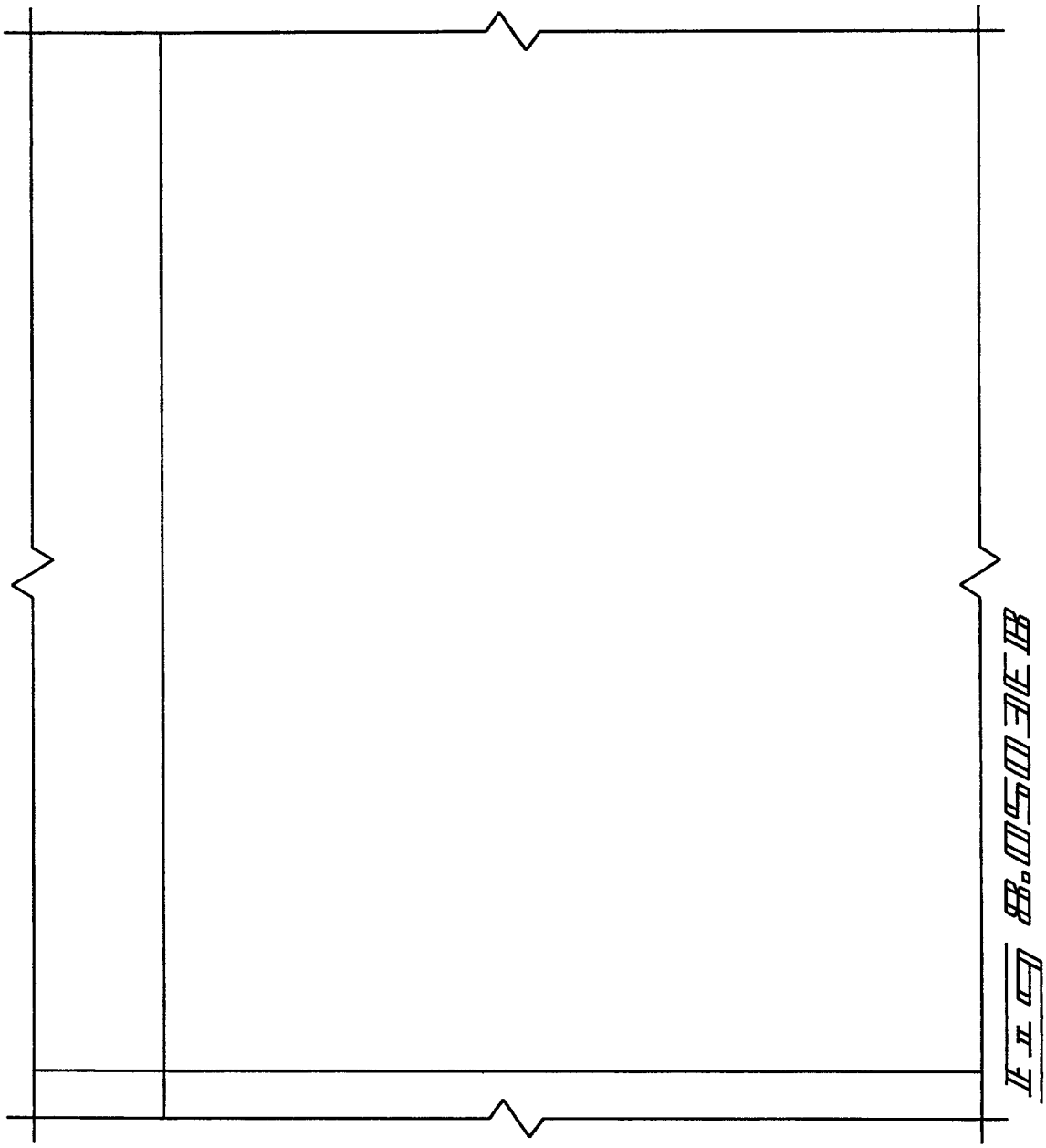


Fig 8.050300

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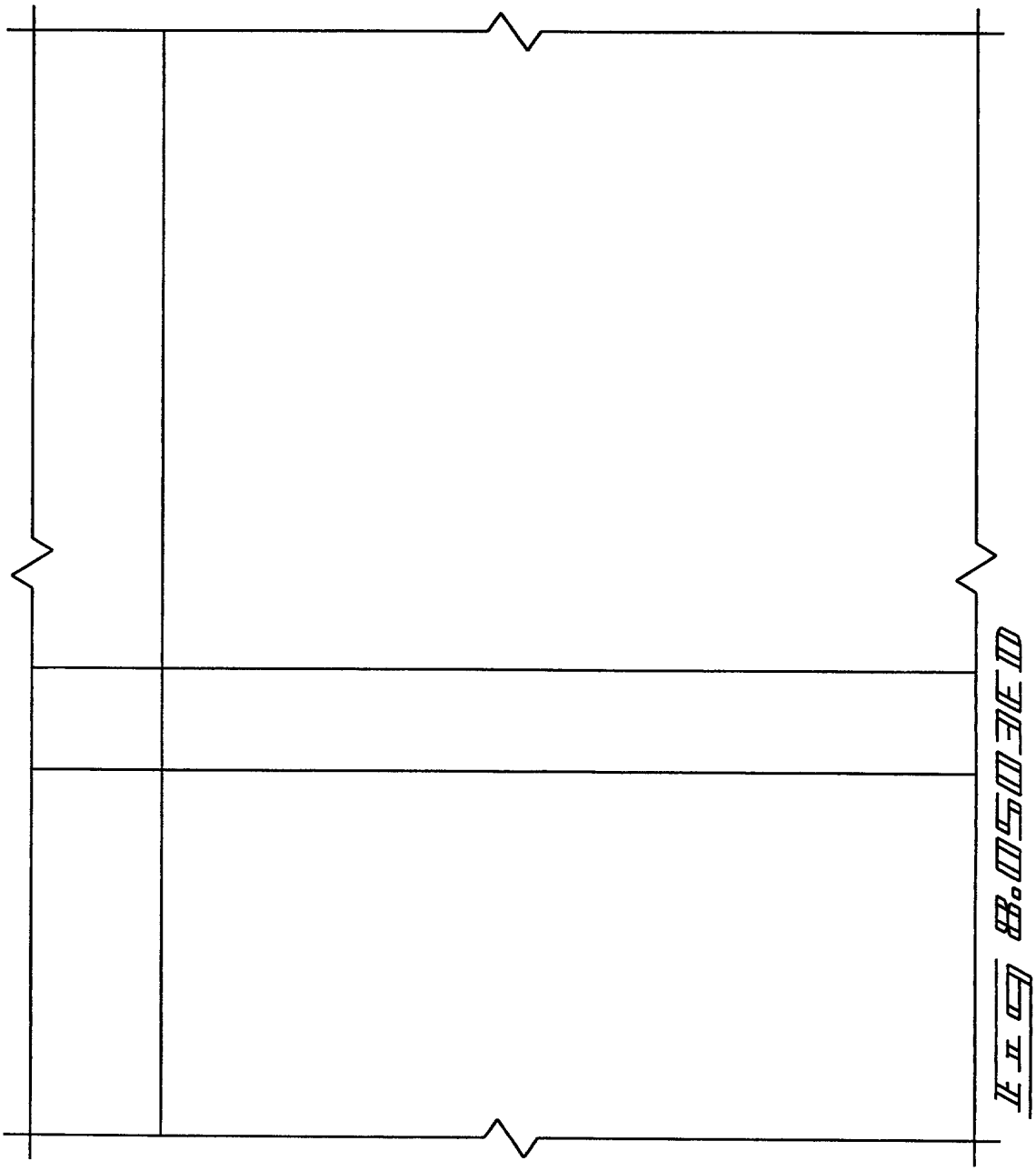


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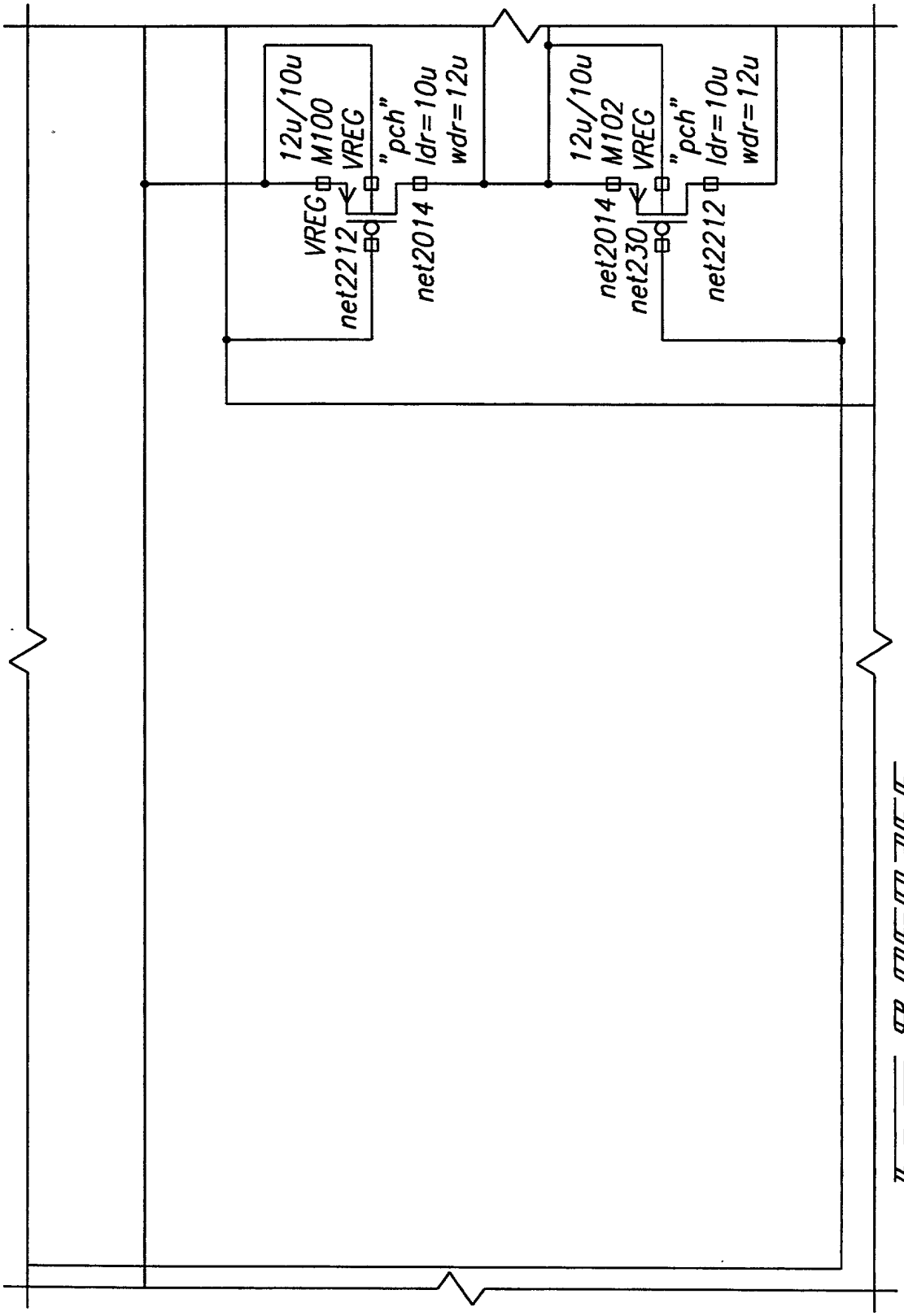
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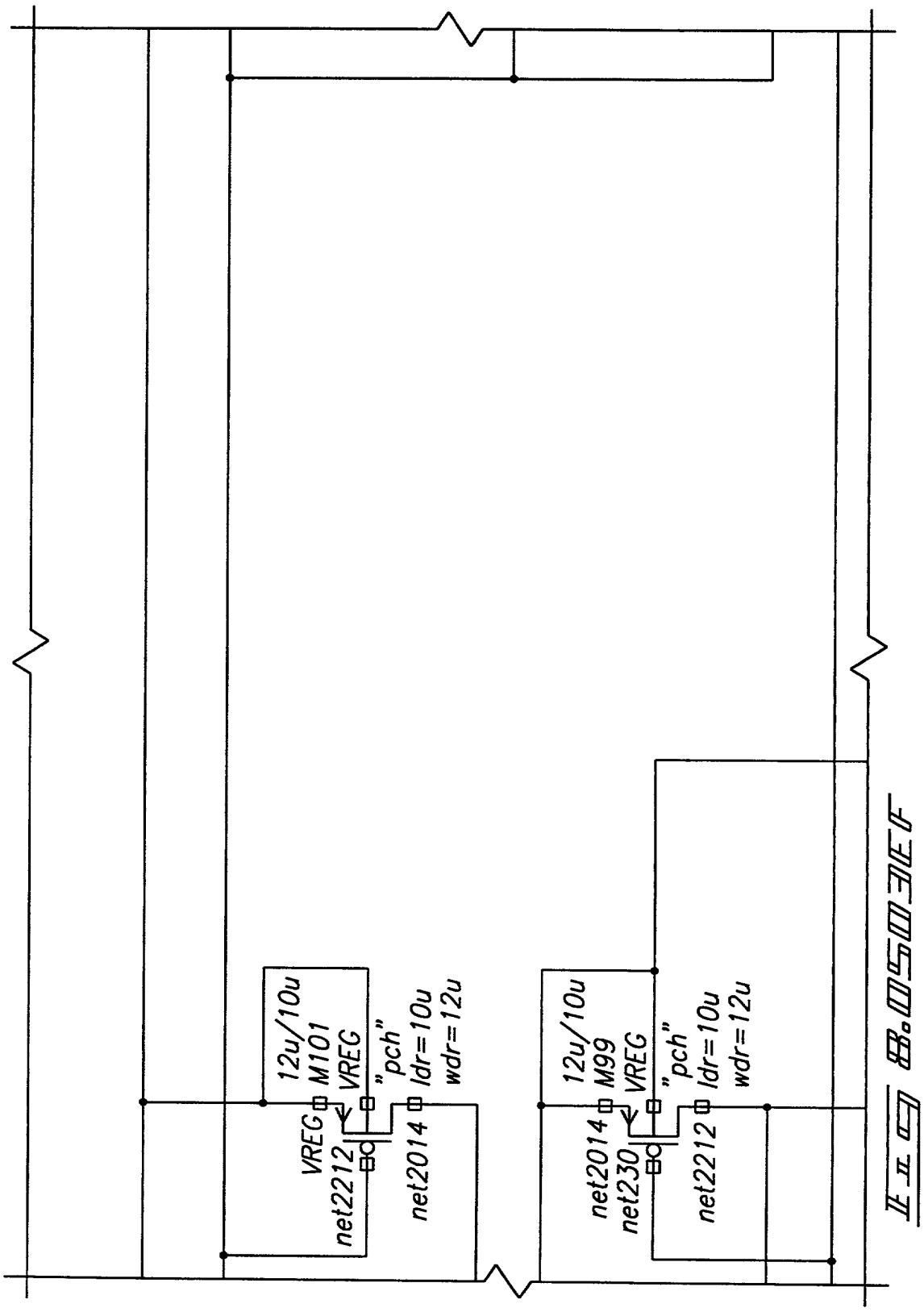
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Electronic Design


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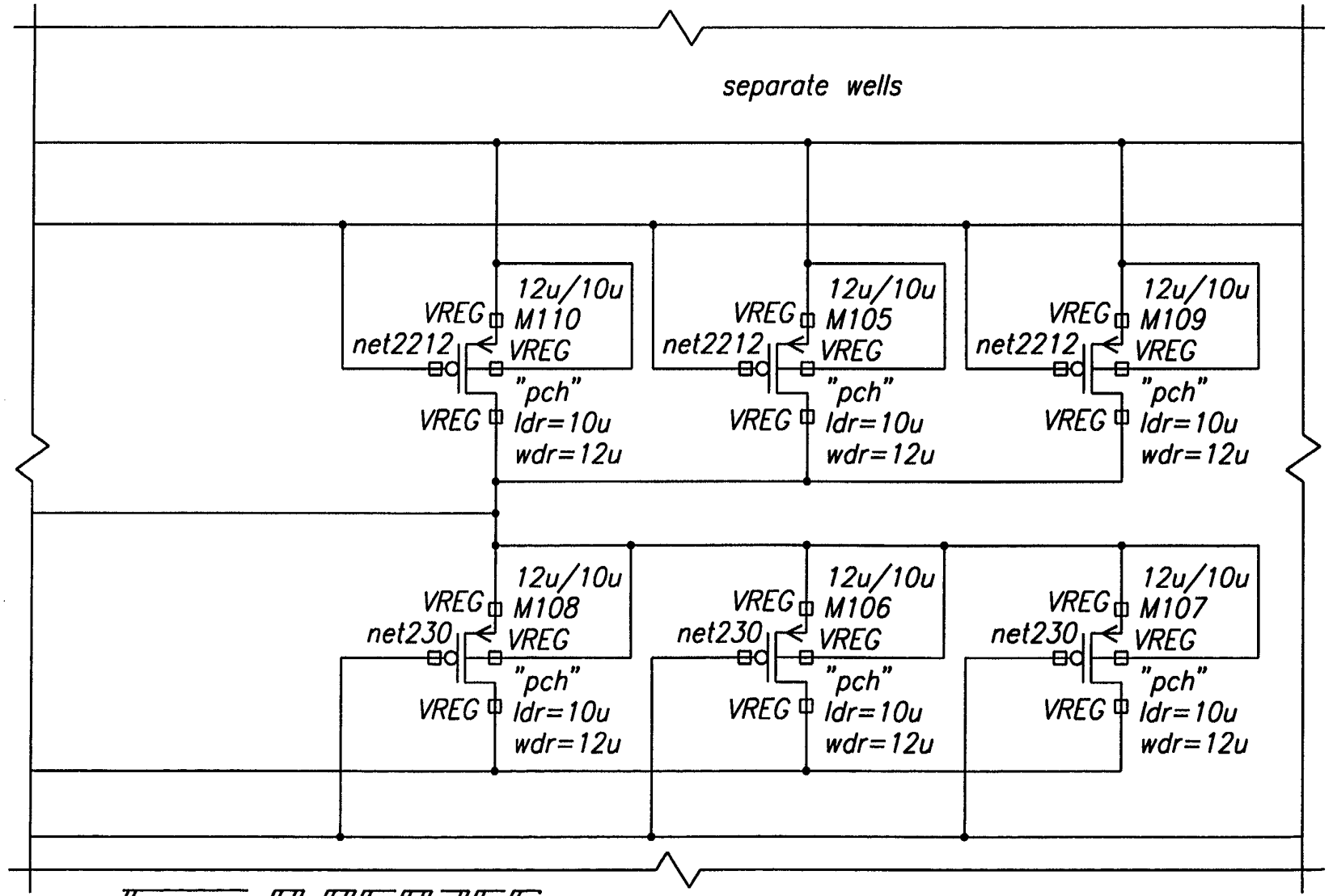
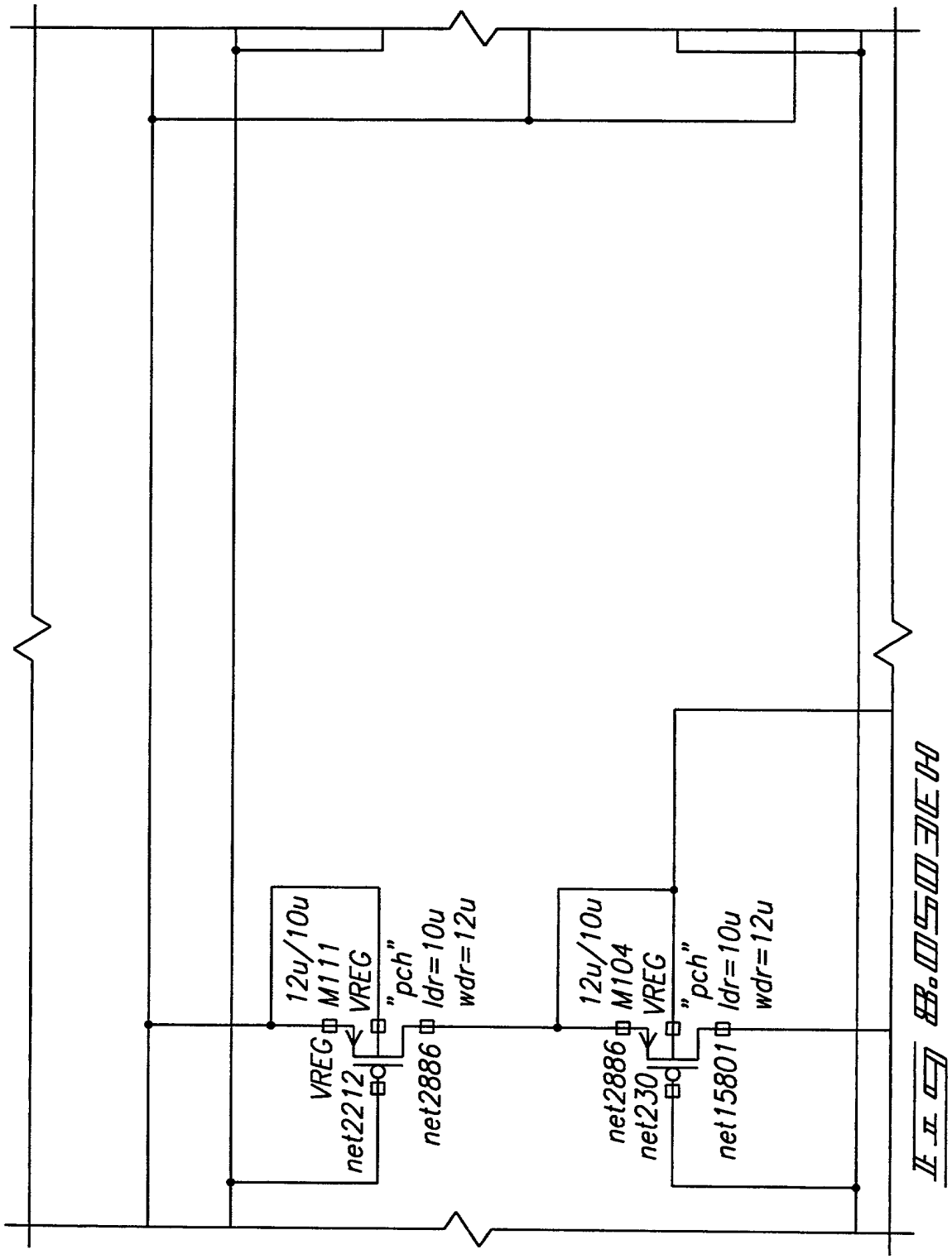

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wdr=12u
12u/10u
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ldr=10u
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12u/10u
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VREG
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12u/10u
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VREG
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"pch"
VREG
ldr=10u
wdr=12u
12u/10u
VREG
M107
net230
VREG
"pch"
VREG
ldr=10u
wdr=12u

Fig 8.005016


12u/10u
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VREG
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12u/10u
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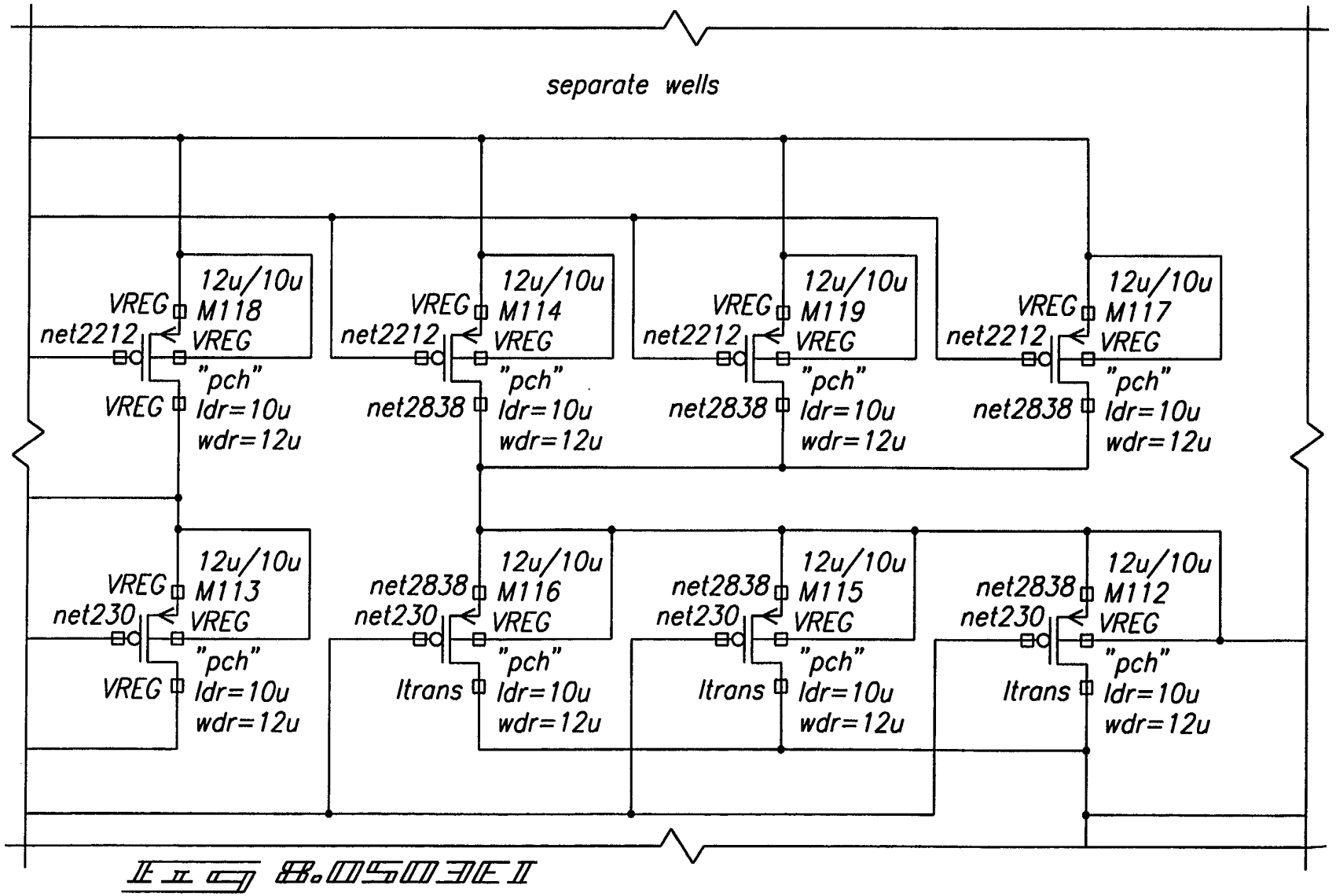
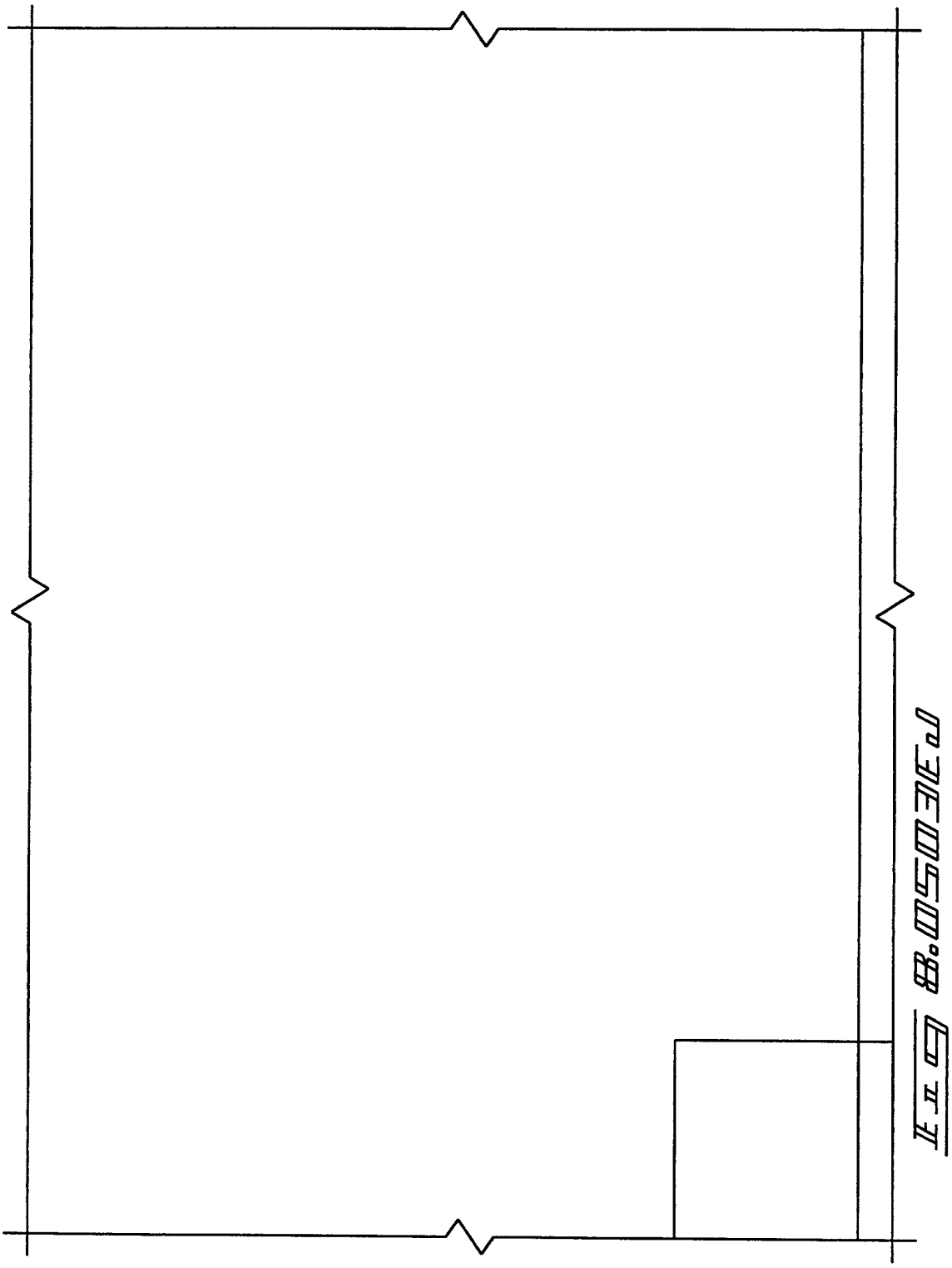

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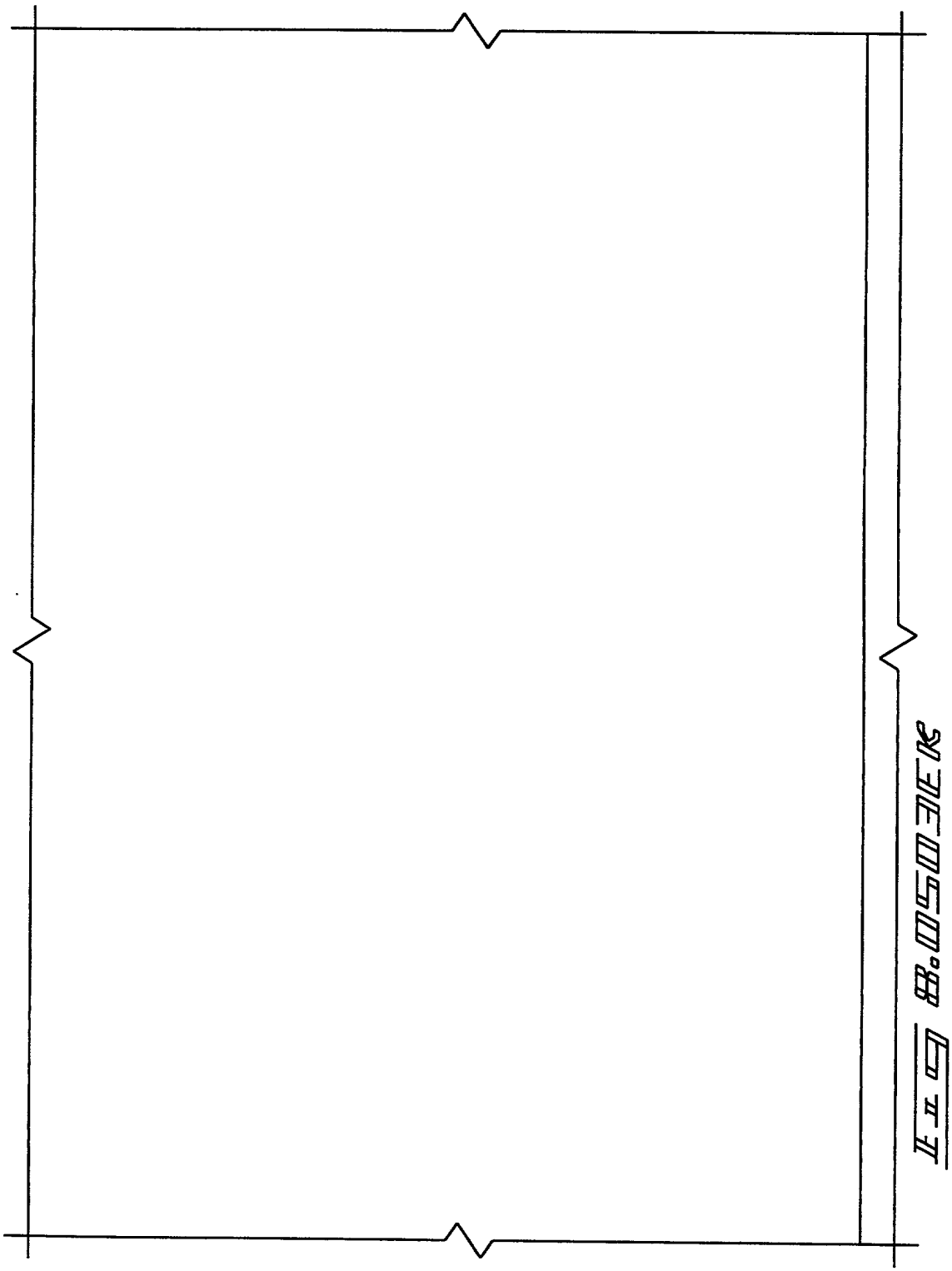
Fig 8.005031

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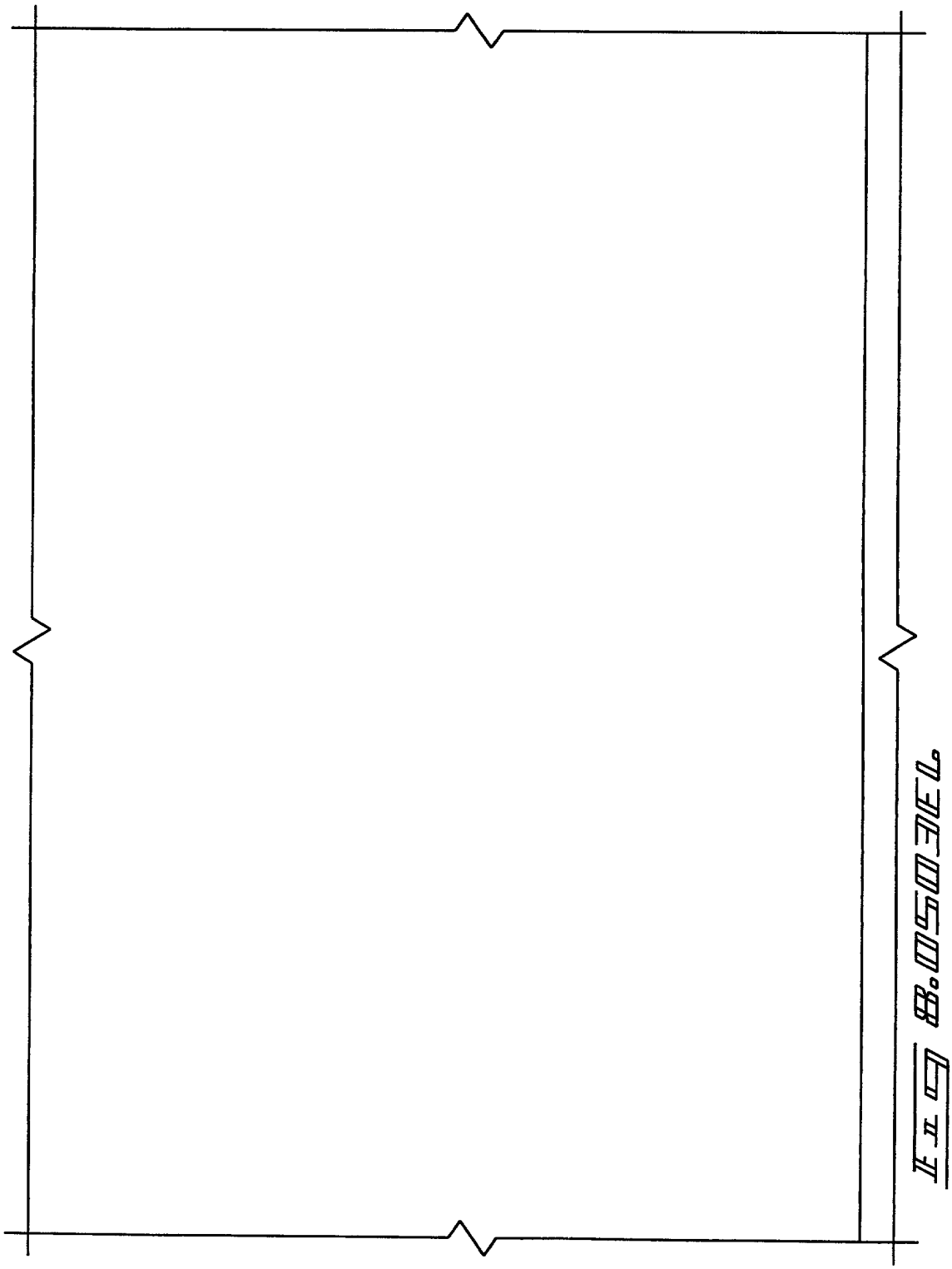


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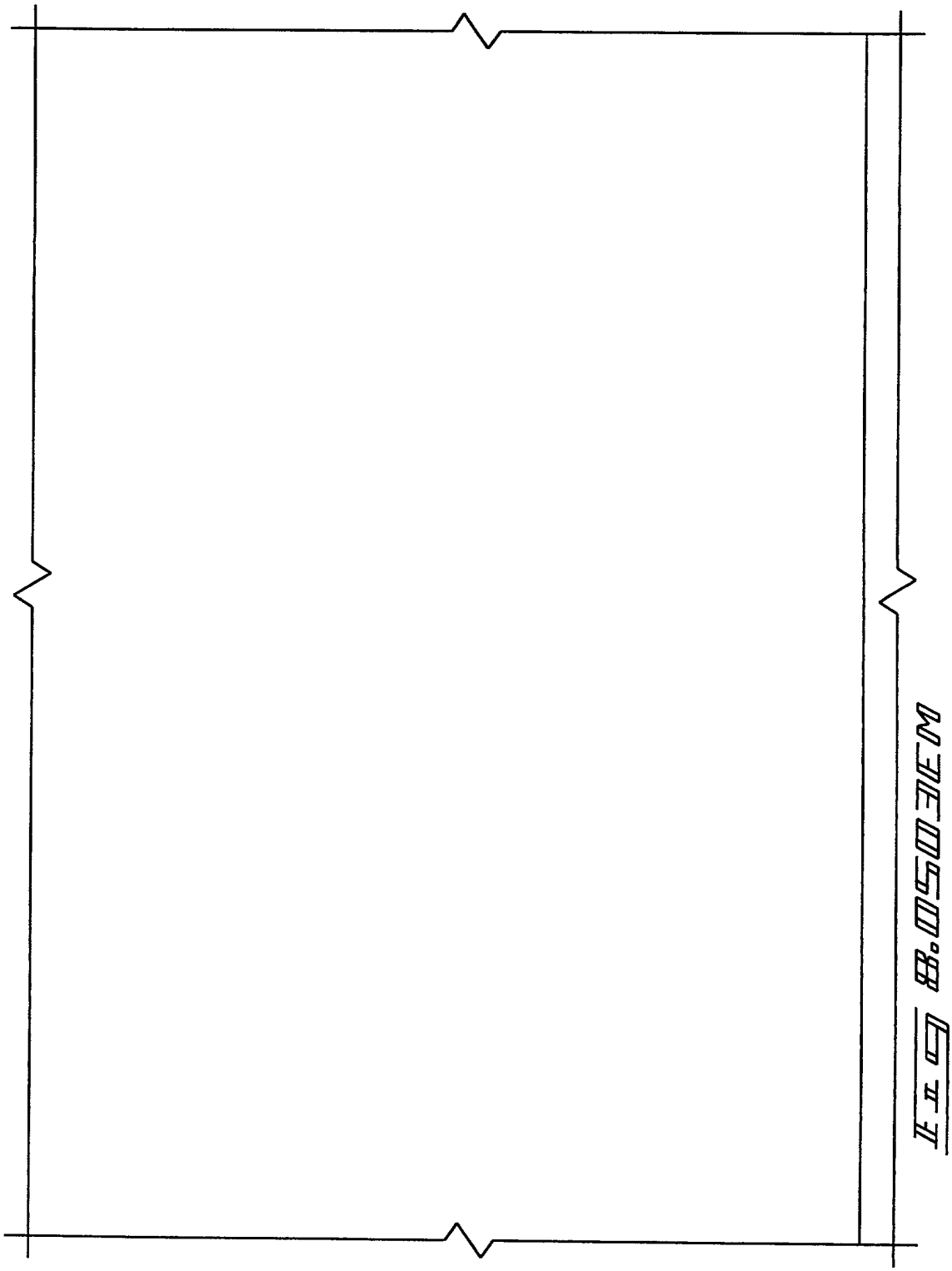
1567/3273



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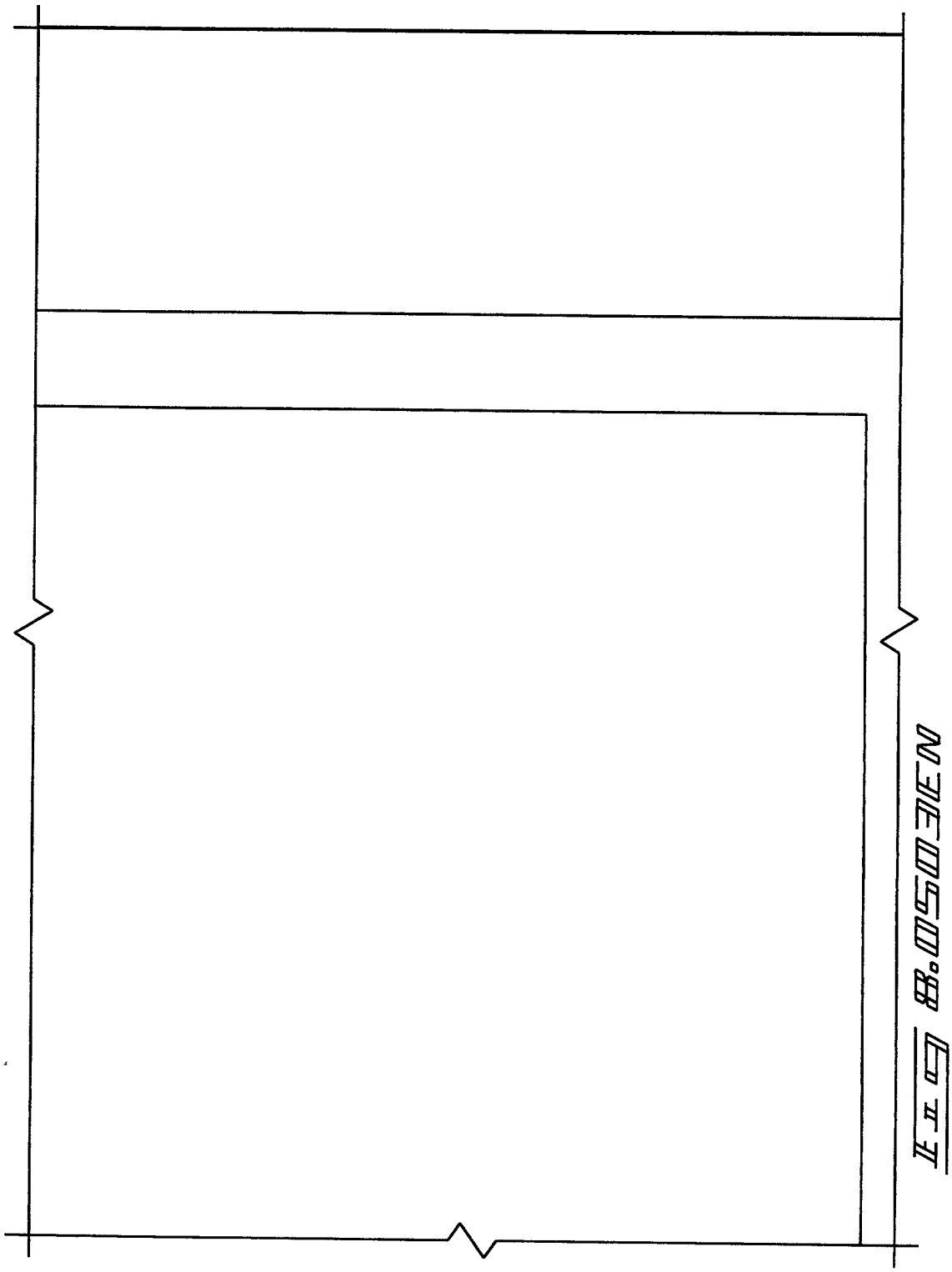


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1570/3273



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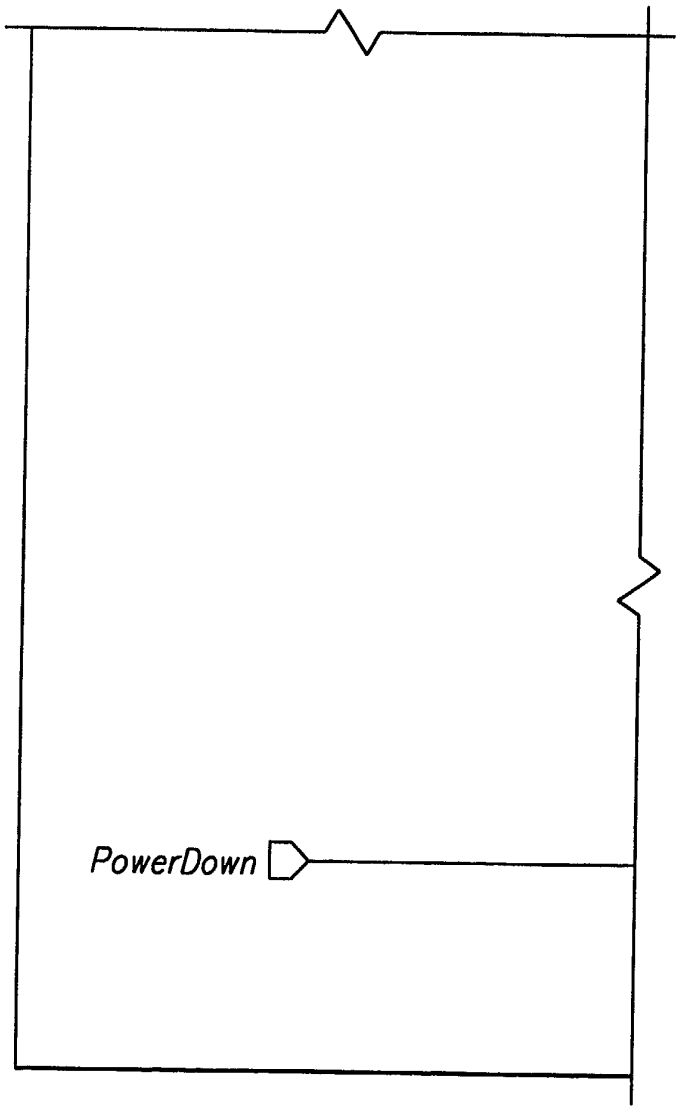
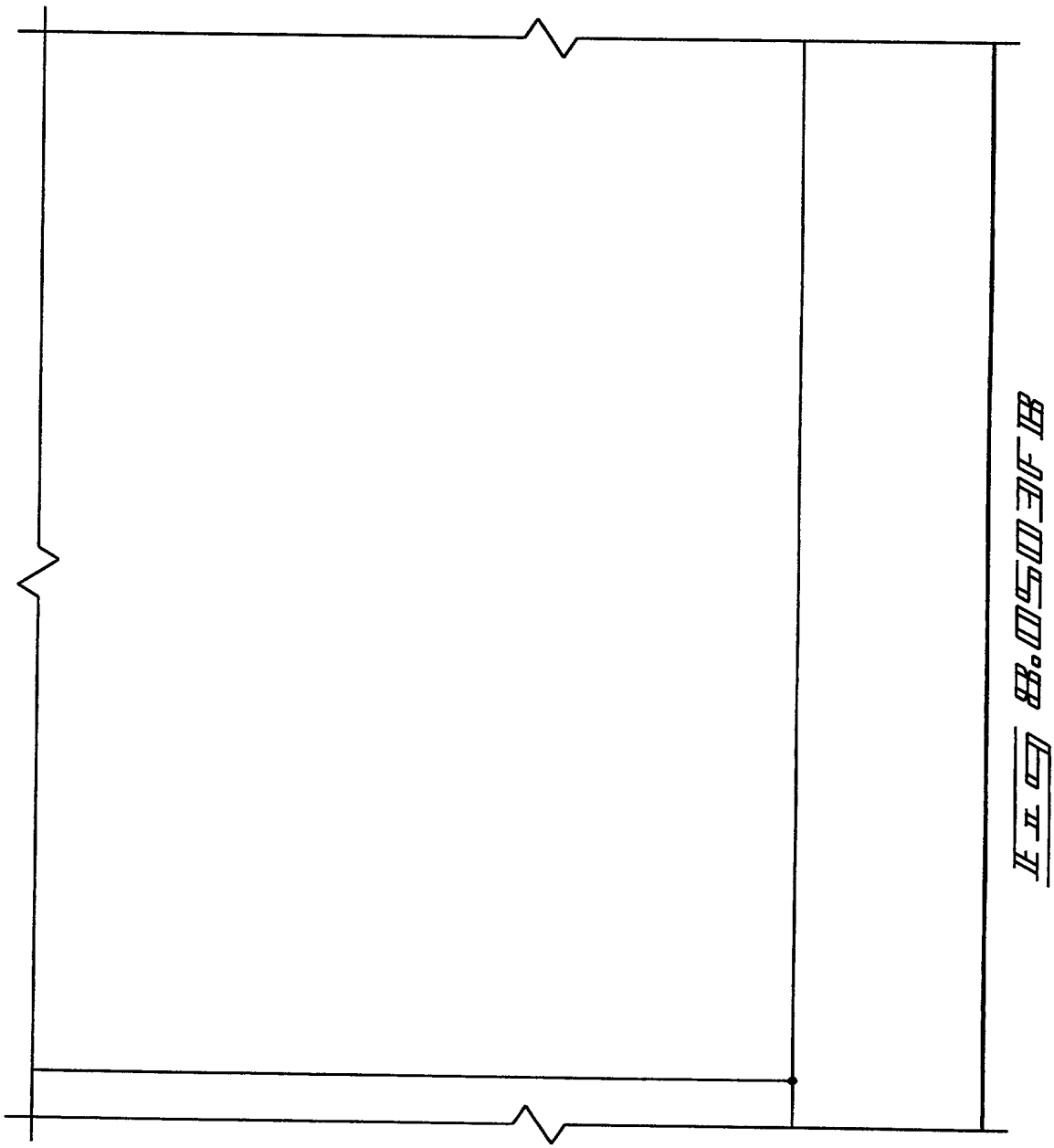


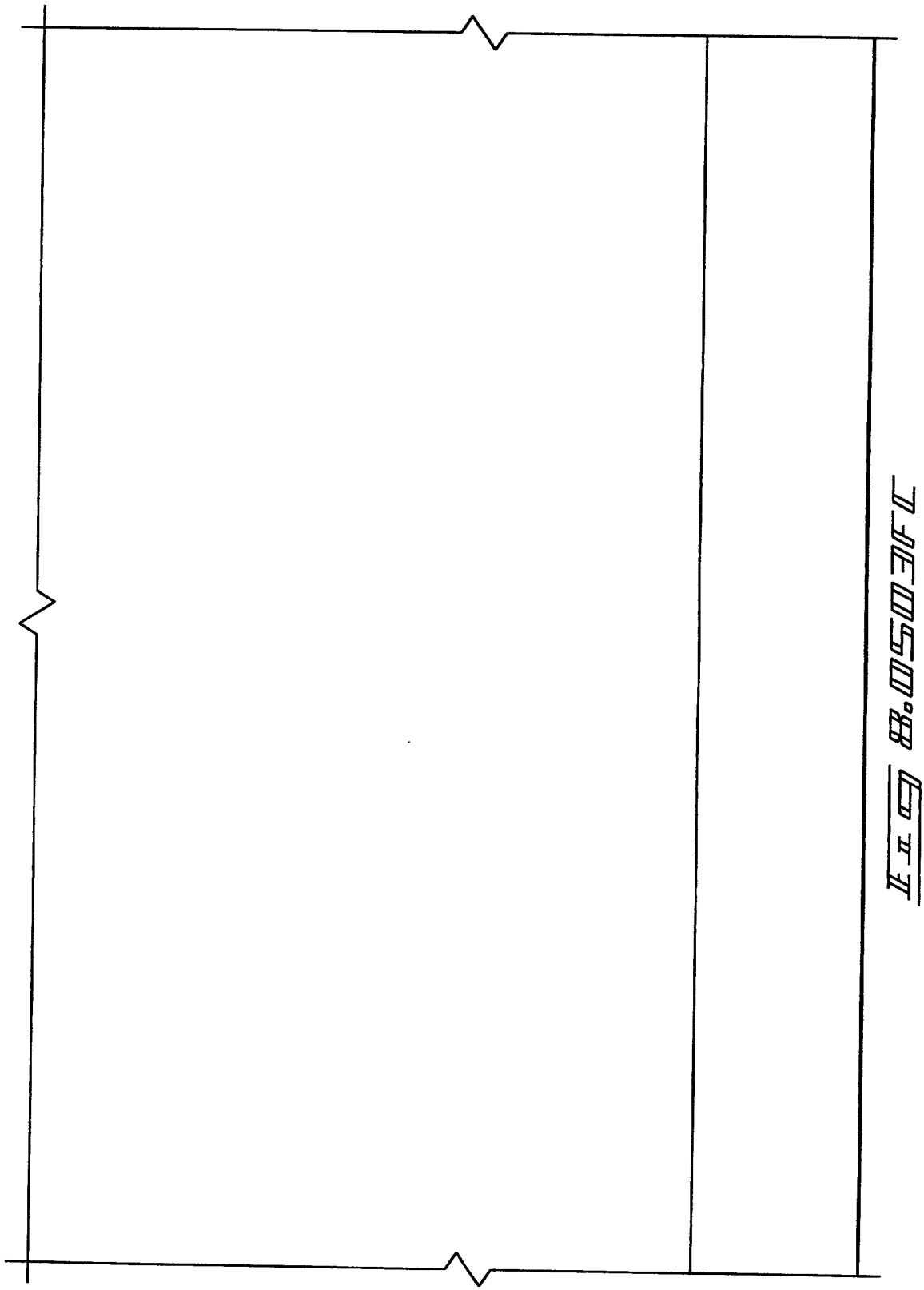
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1572/3273



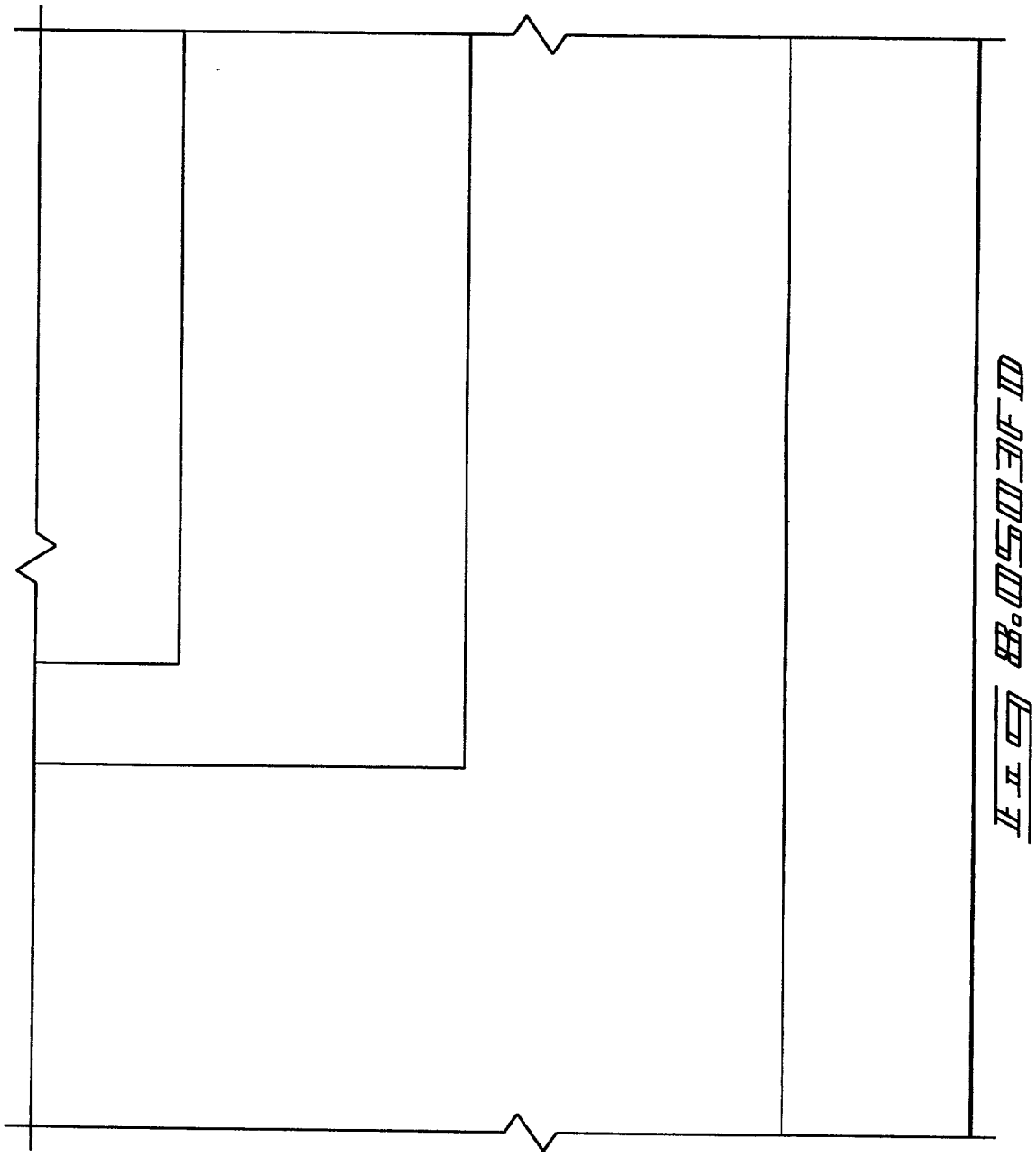
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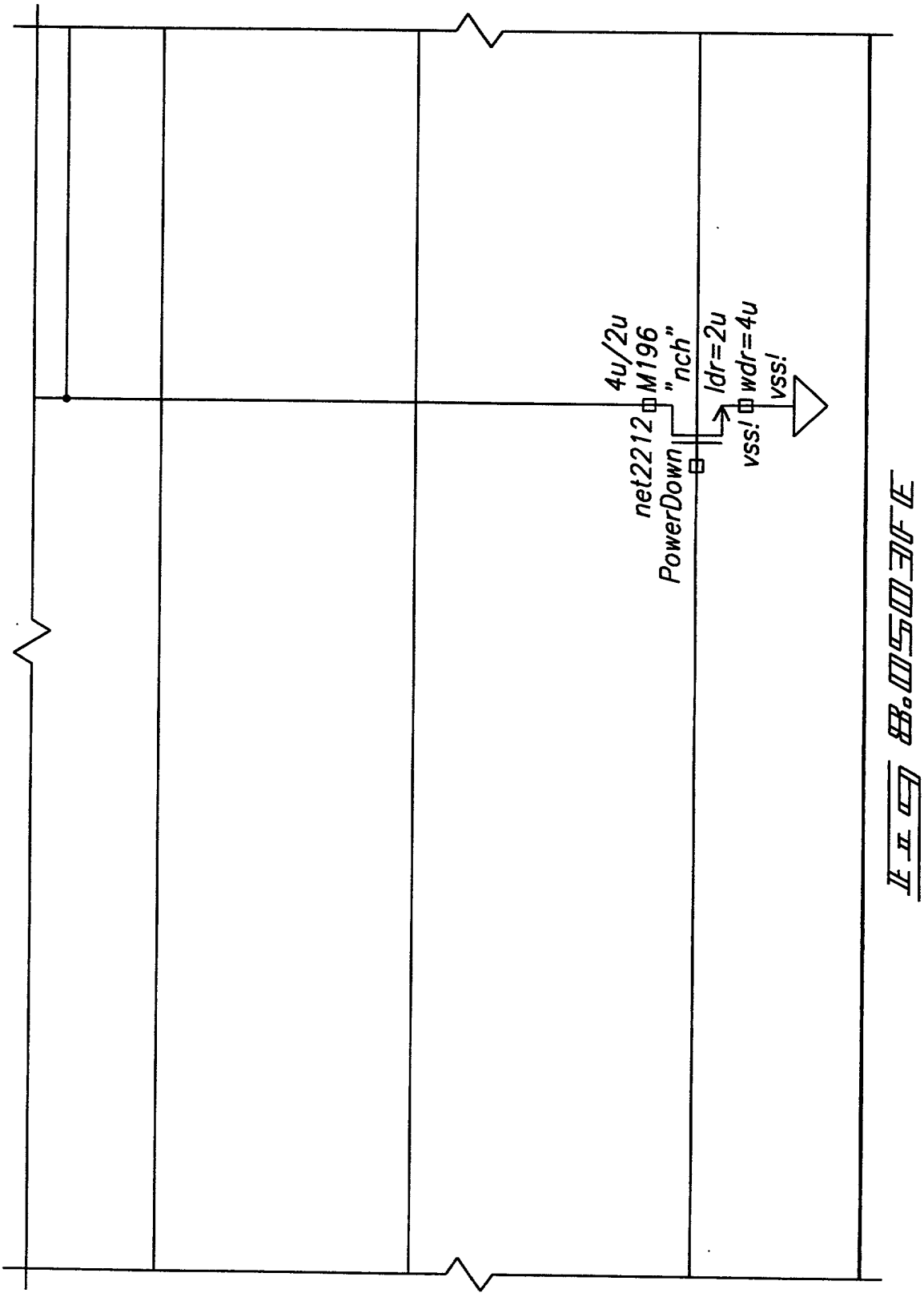


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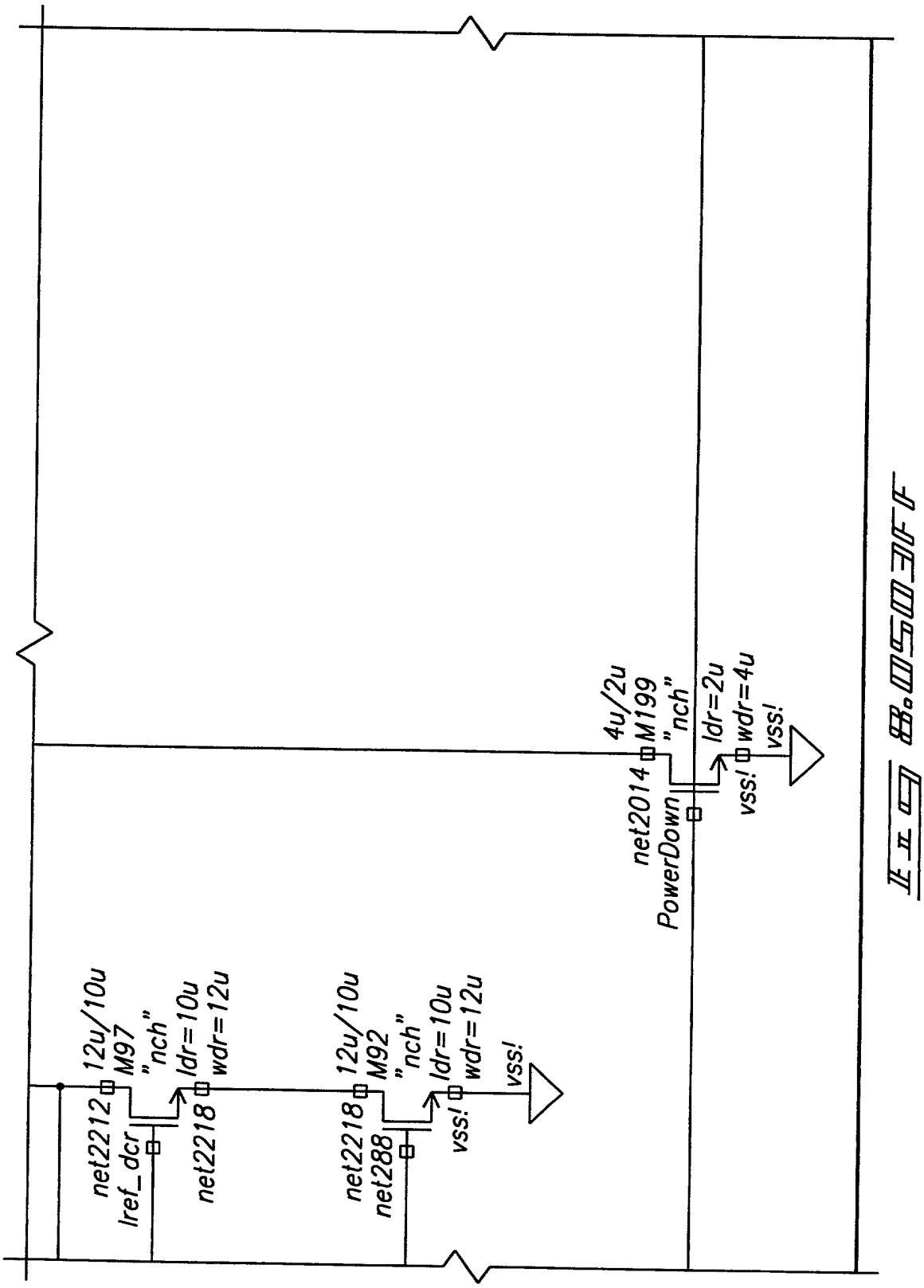
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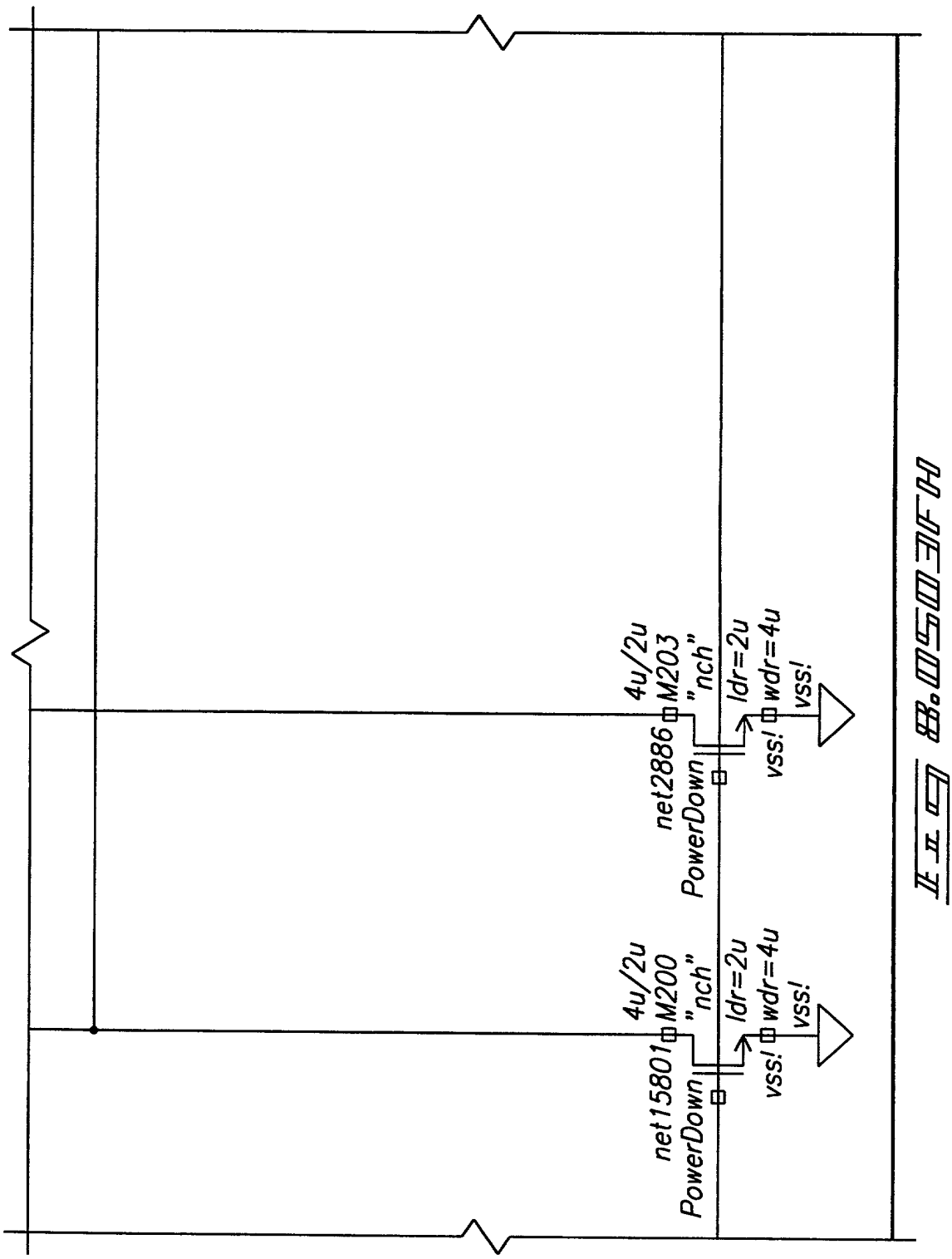


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net2218
net288
vss!
vss!
4u/2u
M199
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ldr=2u
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vss!
vss!

1577/3273

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Фиг. 8

EP 1 615 150 A2 20060104

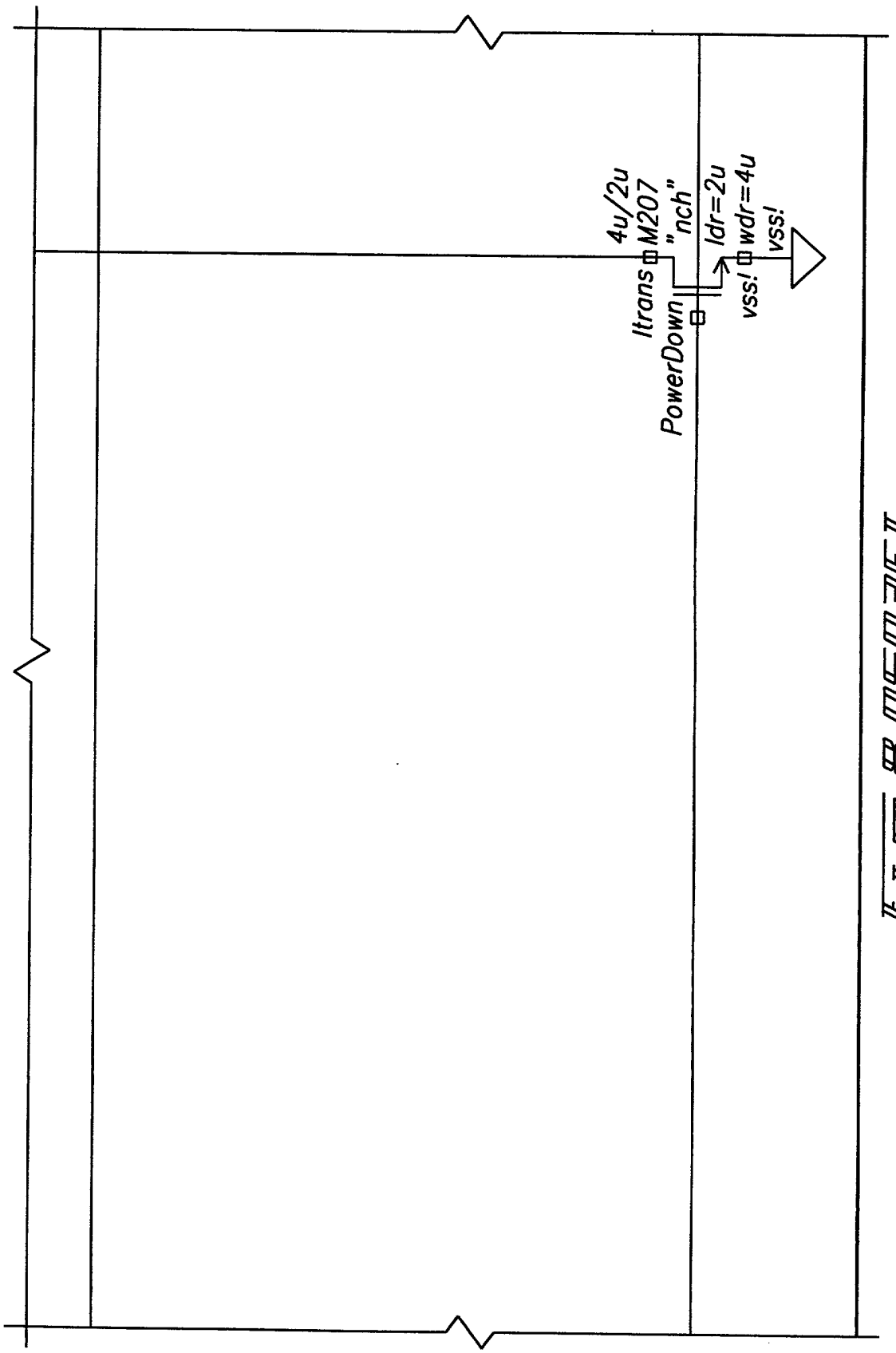
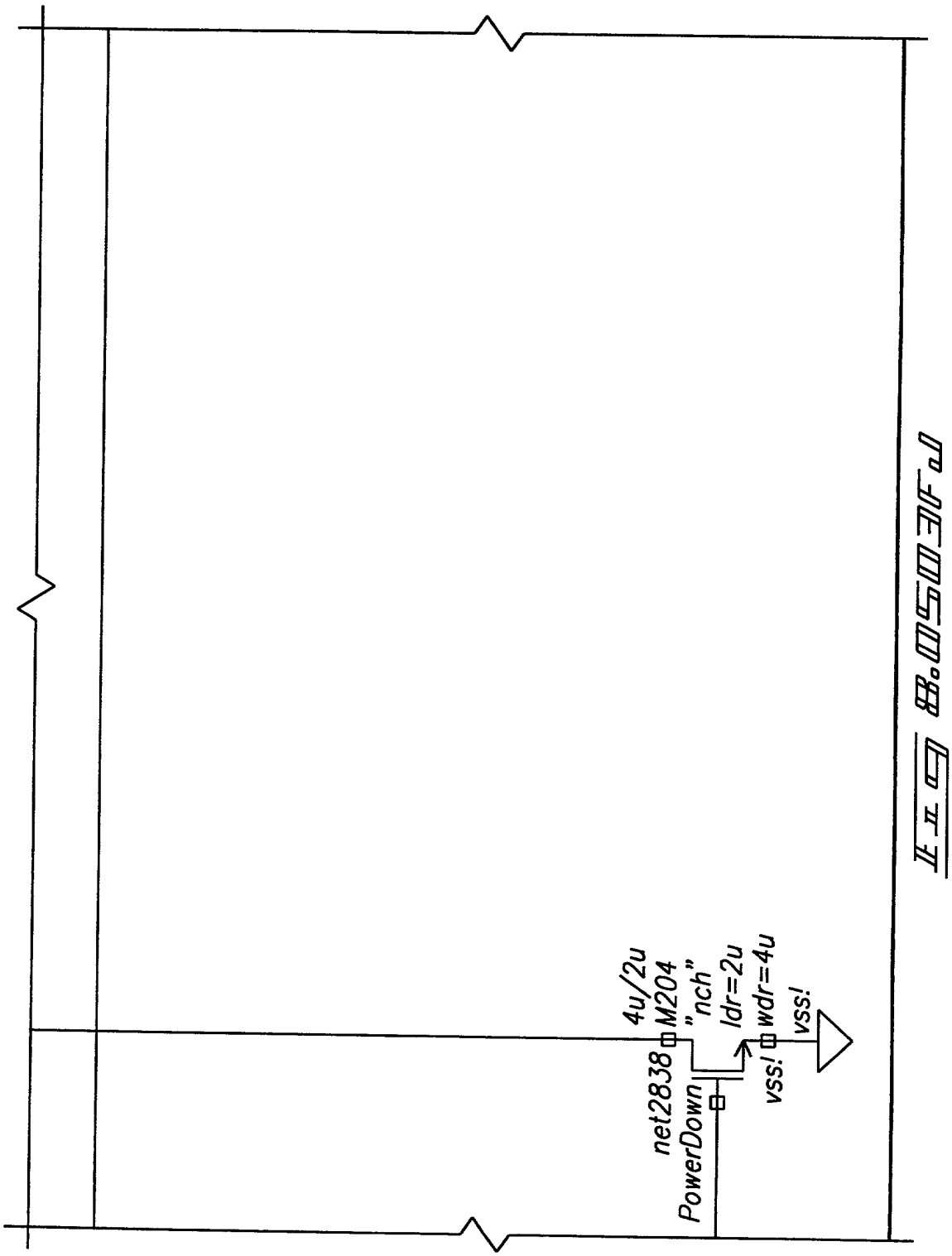
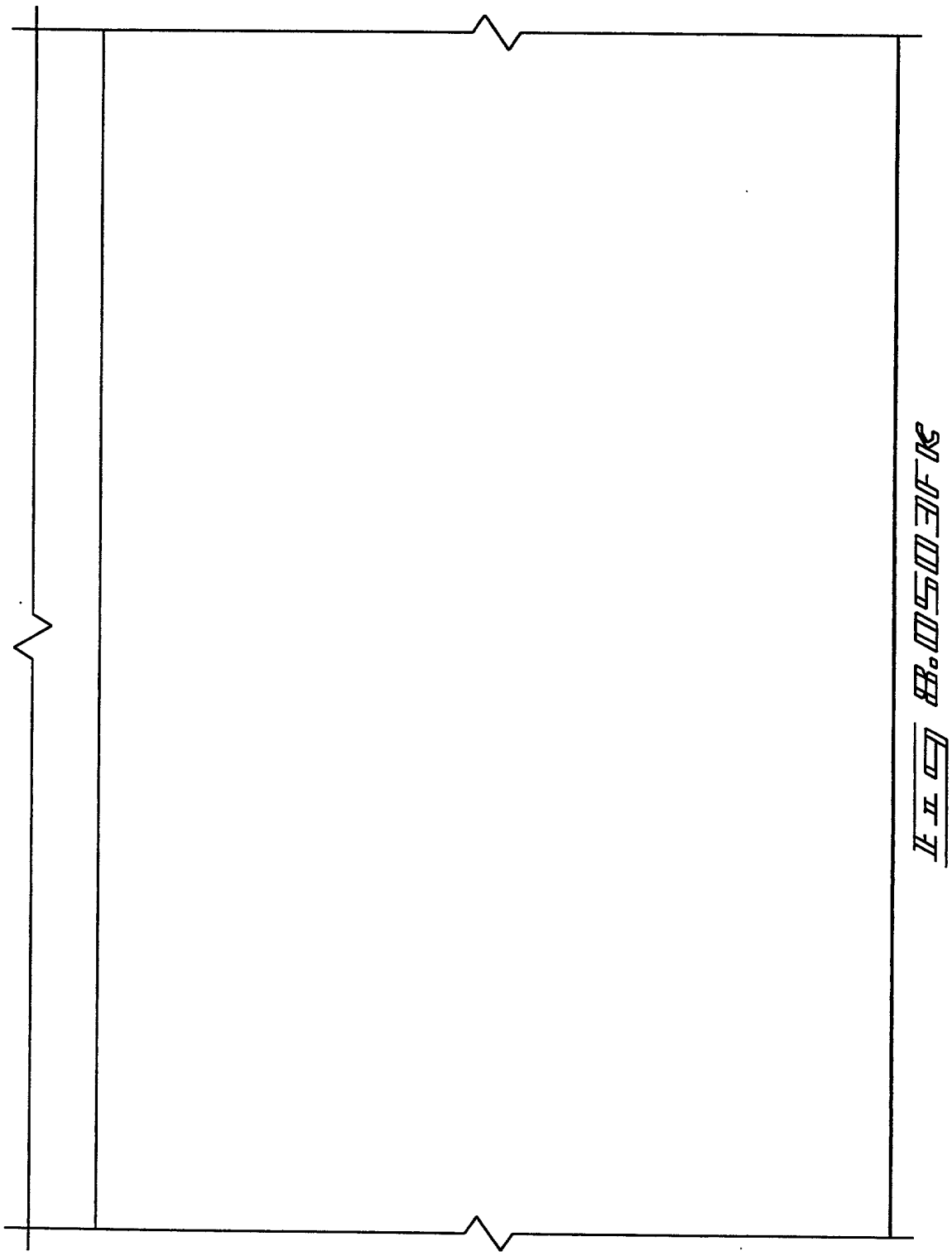


Fig 8.0500 II

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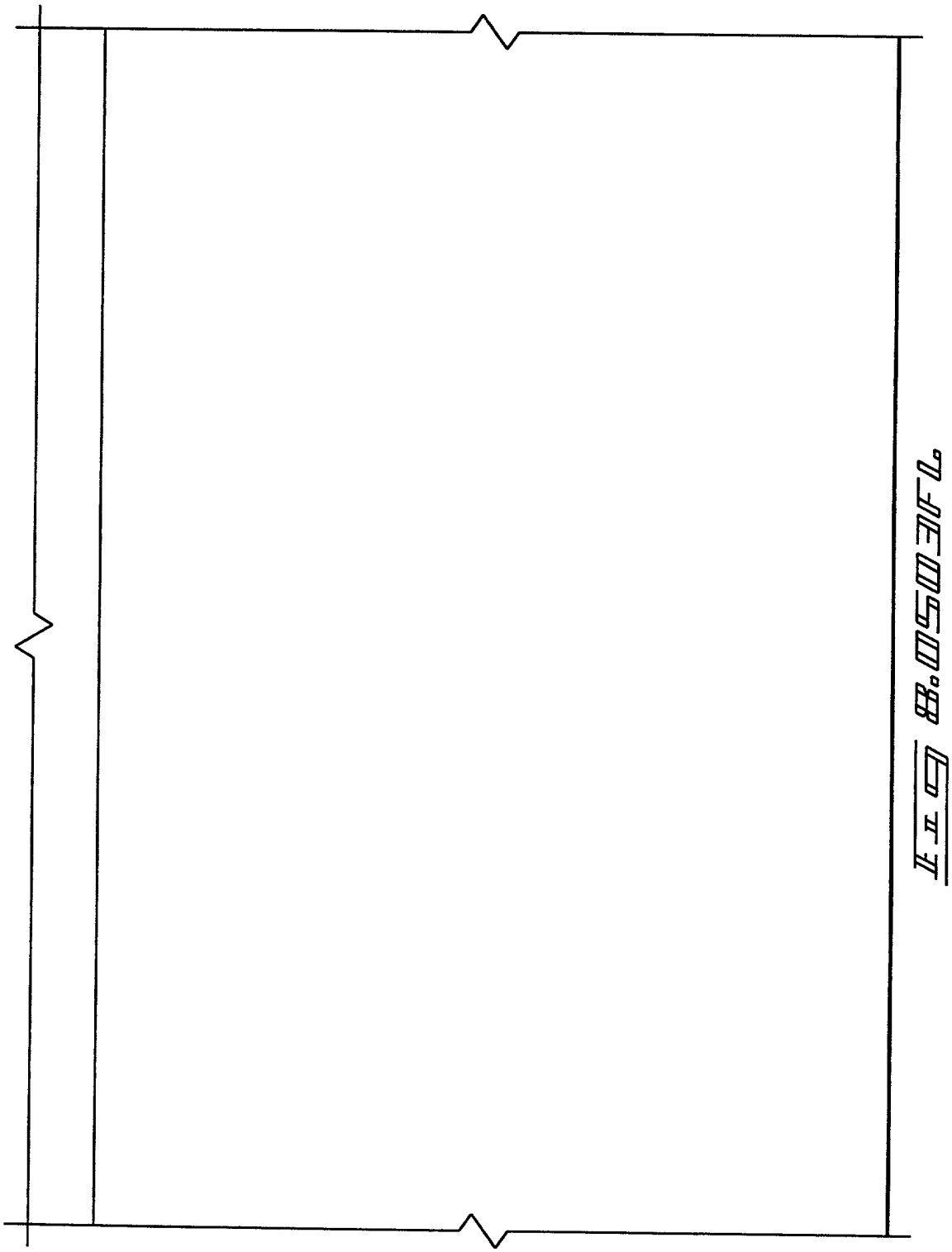


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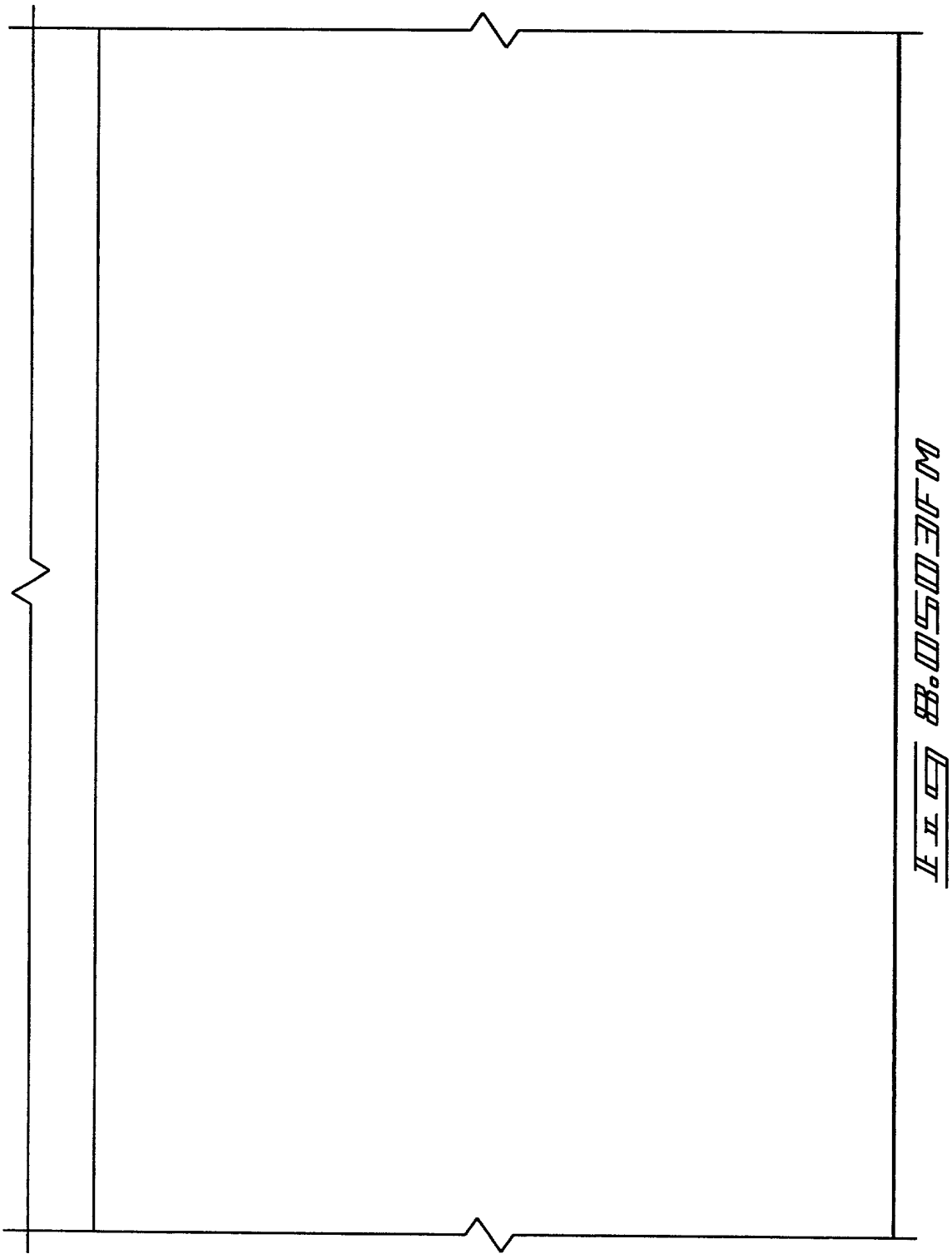


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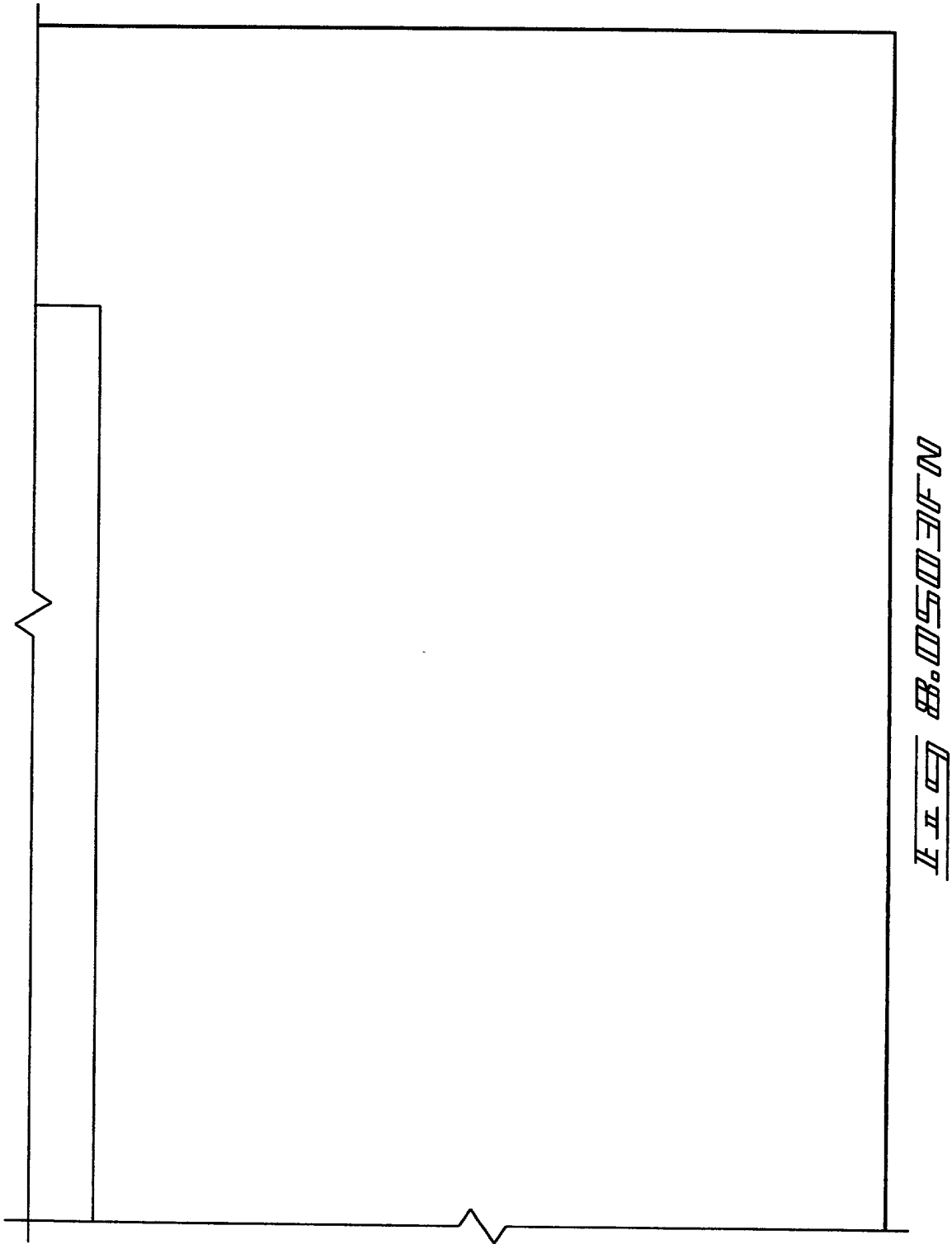


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4054595 05/15/2006

1584/3273



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8.0504AA	8.0504AB	8.0504AC	8.0504AD	
8.0504BA	8.0504BB	8.0504BC	8.0504BD	
8.0504CA	8.0504CB	8.0504CC	8.0504CD	8.0504CE
8.0504DA	8.0504DB	8.0504DC	8.0504DD	8.0504DE
8.0504EA	8.0504EB	8.0504EC	8.0504ED	8.0504EE

Fig 8.0504

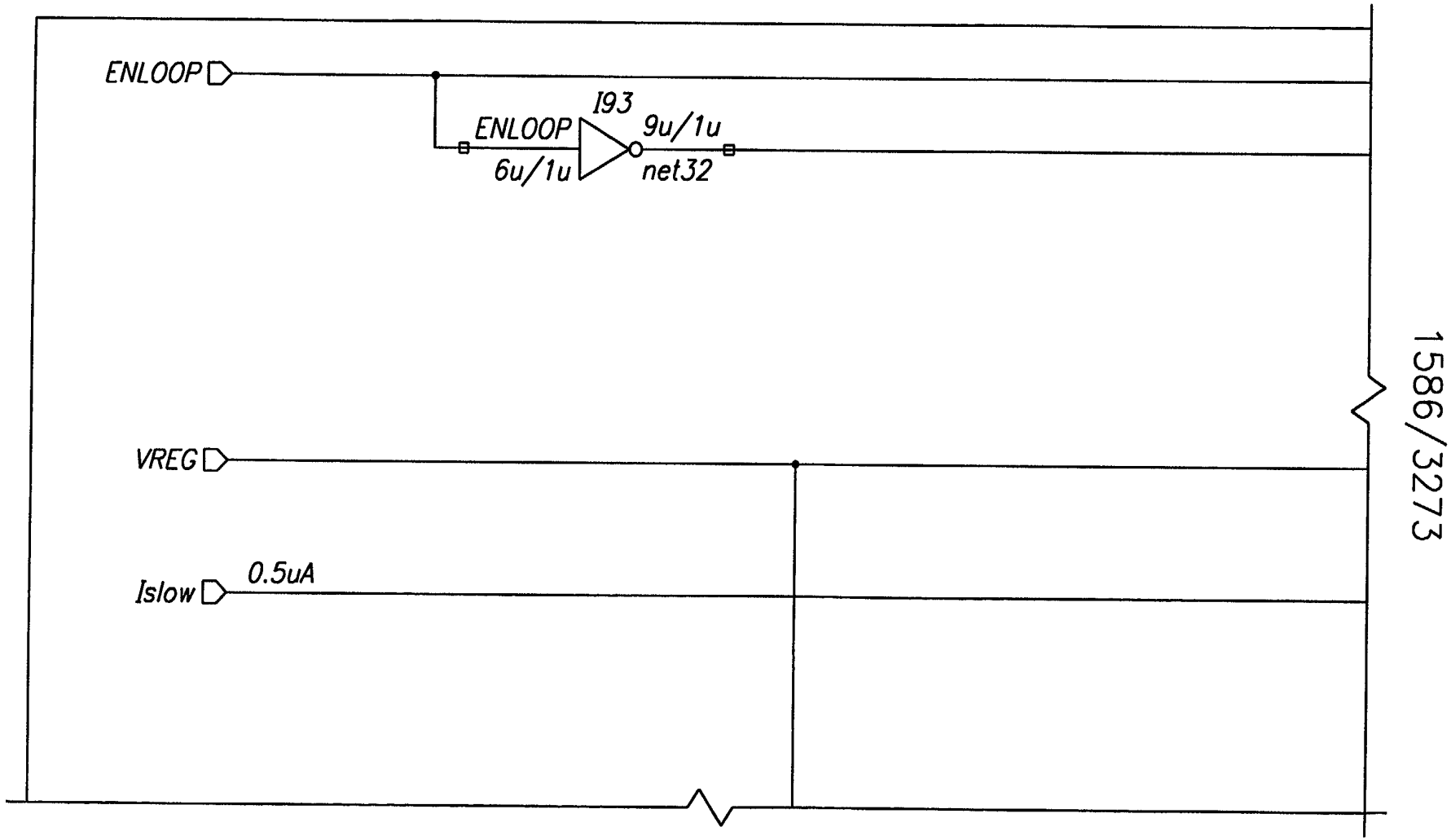


Fig 8.0504AA

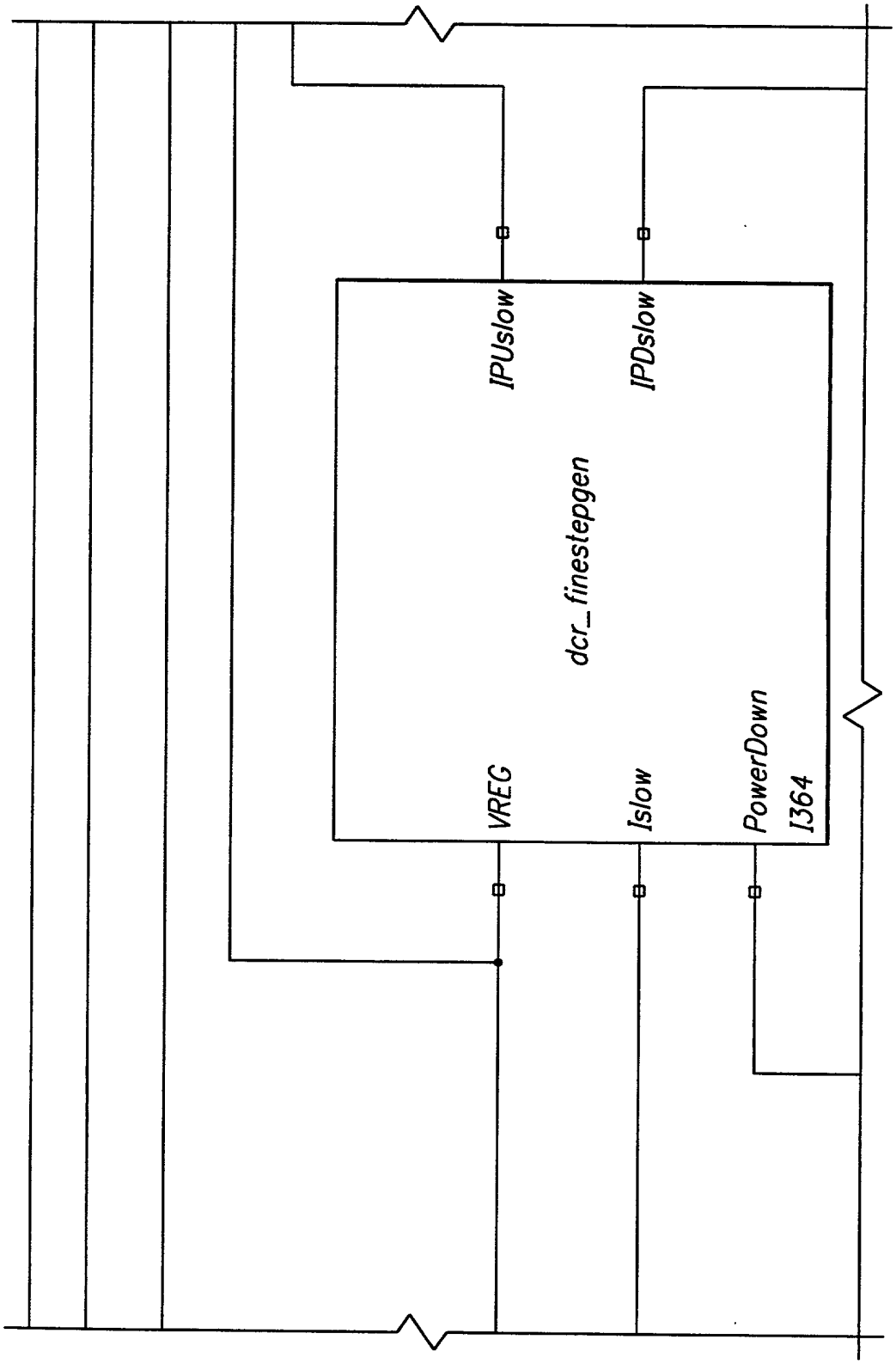
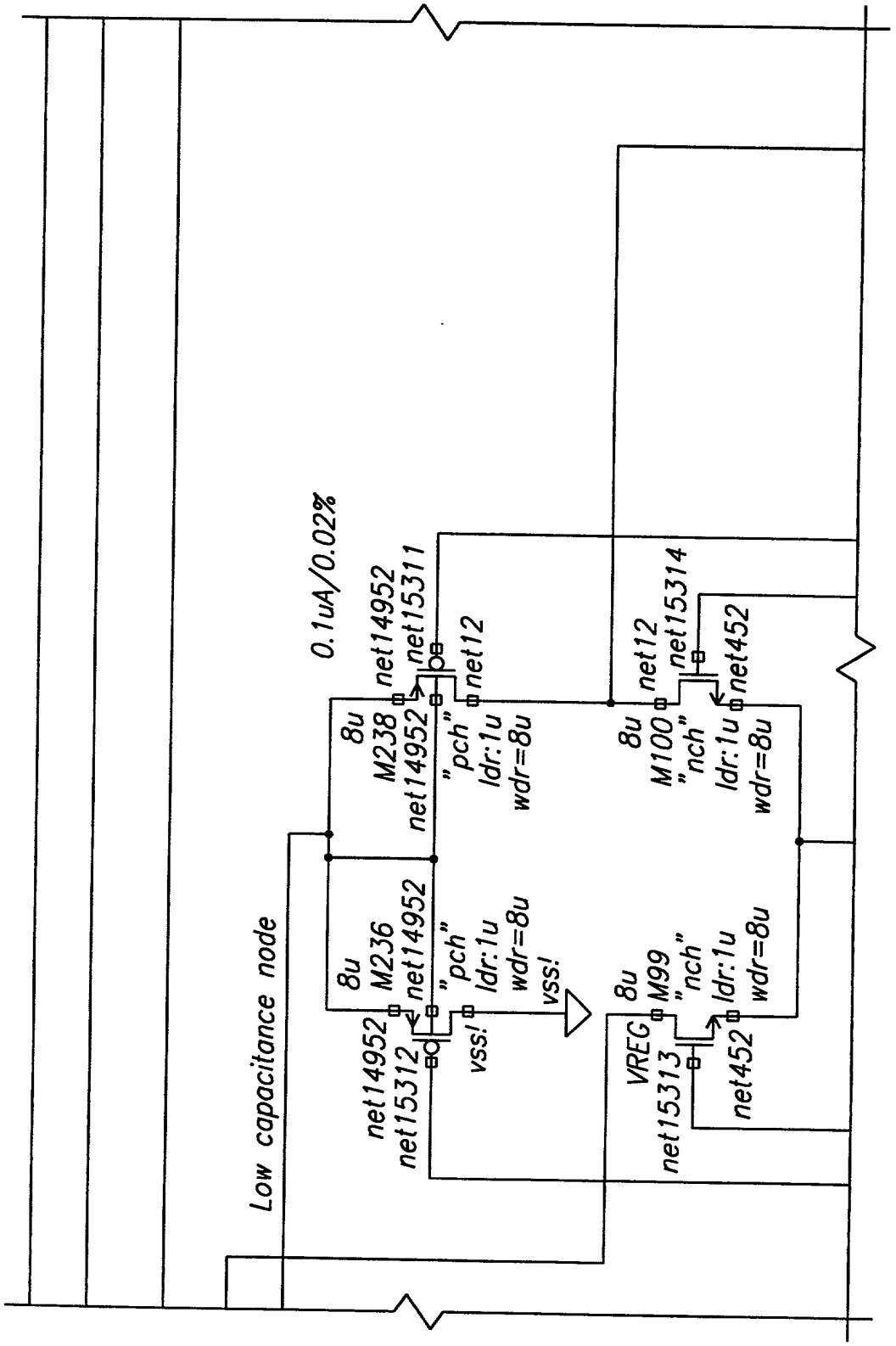


Fig 88.005-1A

EP1587273B1


Low capacitance node
0.1uA/0.02%
8u
M238
net14952
net14952
"pch"
ldr:1u
wdr=8u
net14952
net15311
net12
8u
M236
net14952
net14952
net15312
"pch"
ldr:1u
wdr=8u
vss!
vss!
8u
M100
"nch"
ldr:1u
wdr=8u
net12
net15314
net452
8u
M99
"nch"
ldr:1u
wdr=8u
VREG
net15313
net452

1589/3273

Document: 2595450

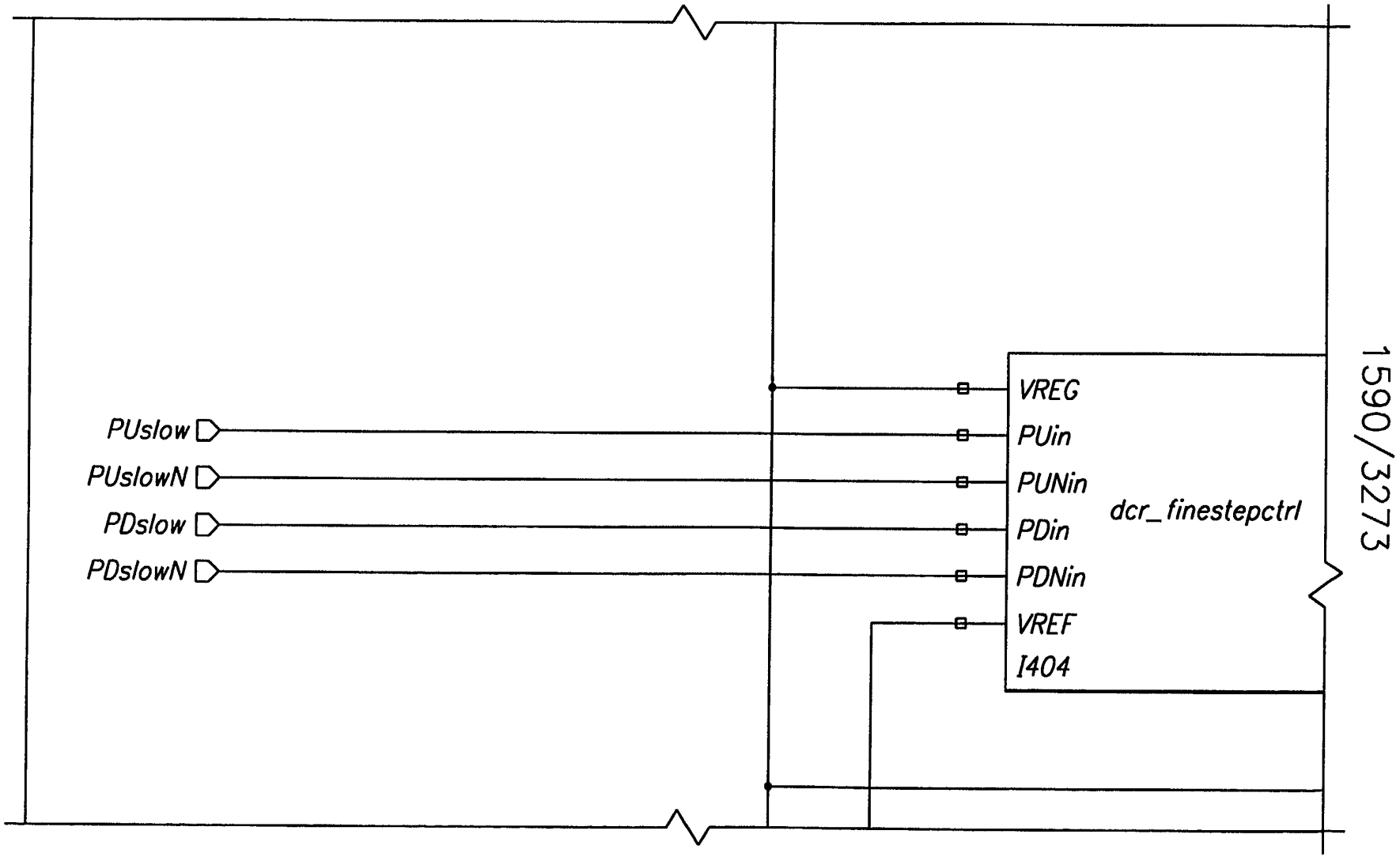
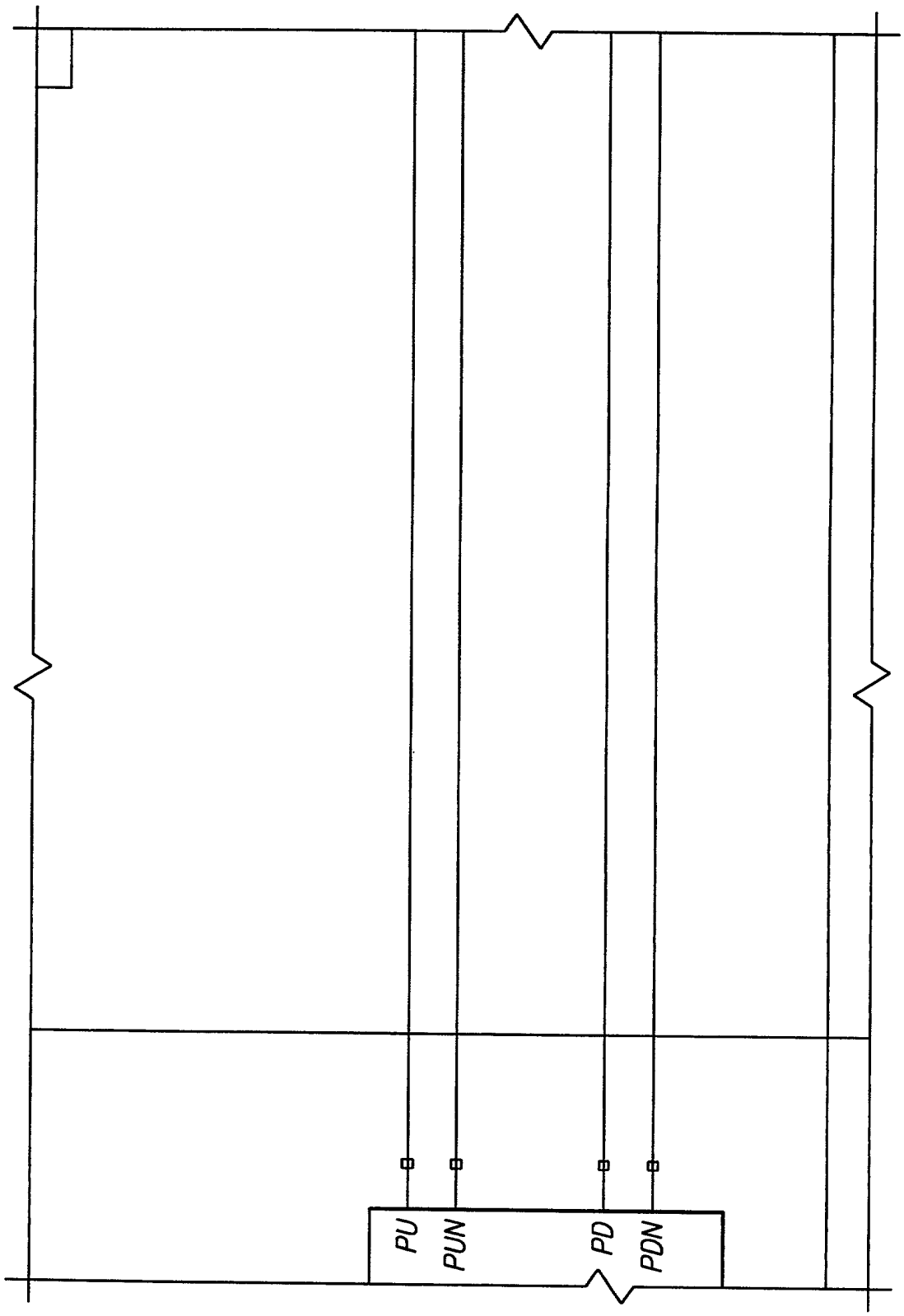
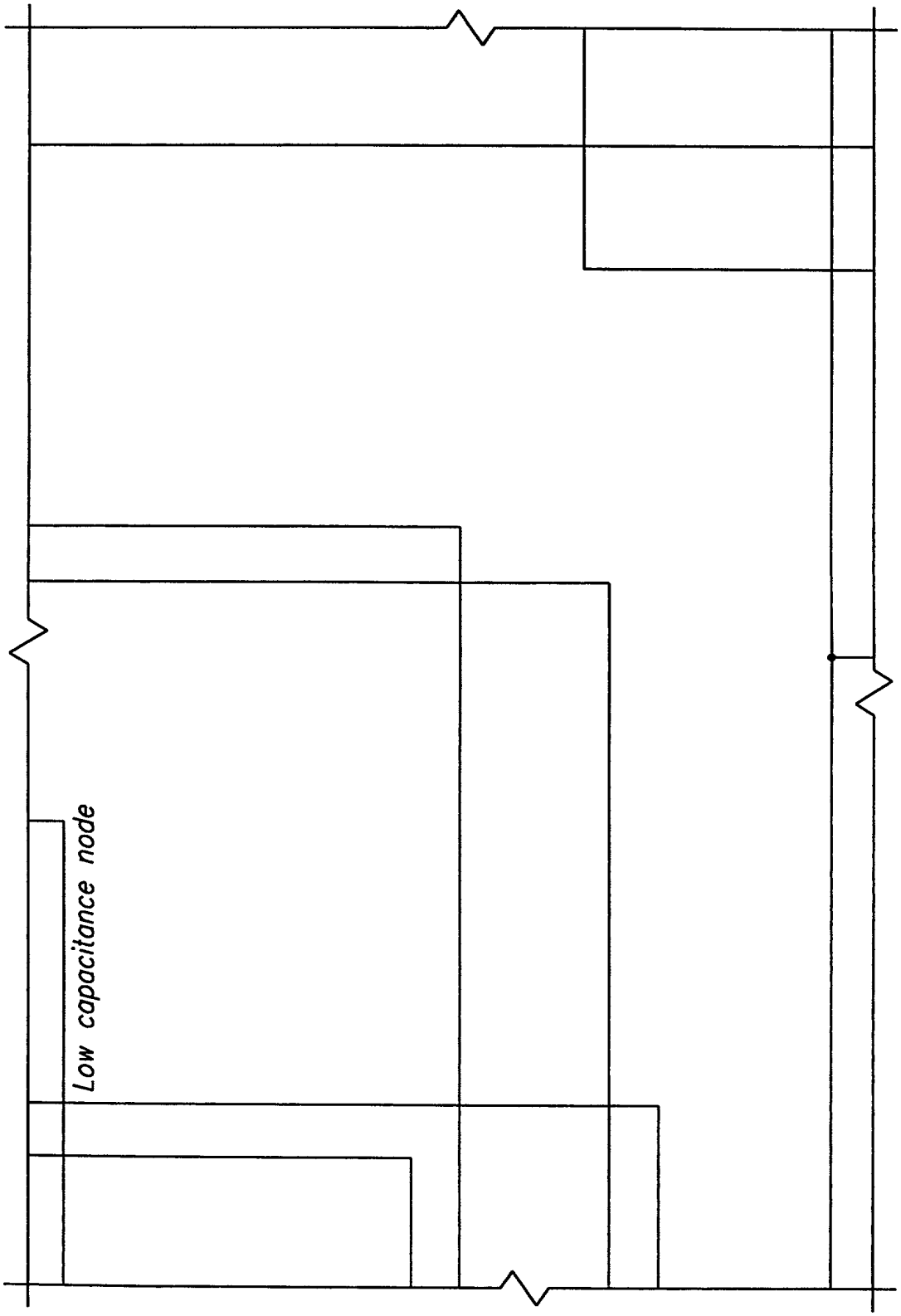

PUslow
PUslowN
PDslow
PDslowN
VREG
PUin
PUNin
PDin
PDNin
VREF
I404
dcr_finestepctrl
1590/3273

Fig 8.0504BA



Фиг. 8.0504 ВВ

EP 0 954 095 B1


Low capacitance node
FIG 8.0504BC

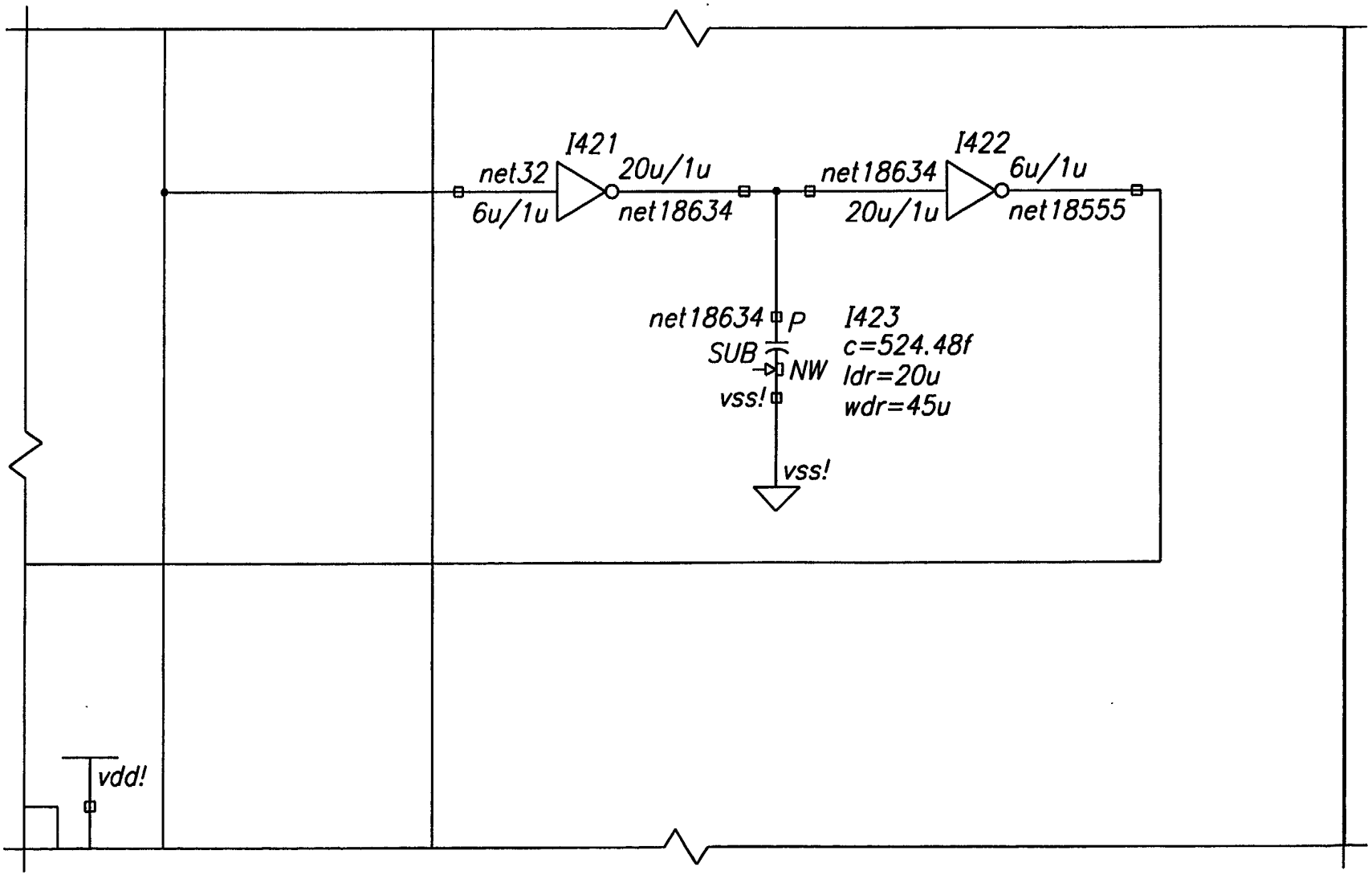

I421
net32
6u/1u
20u/1u
net18634
I422
net18634
20u/1u
6u/1u
net18555
net18634
P
SUB
NW
vss!
I423
c=524.48f
ldr=20u
wdr=45u
vss!
vdd!
1593/3273

Fig 8.0504BD

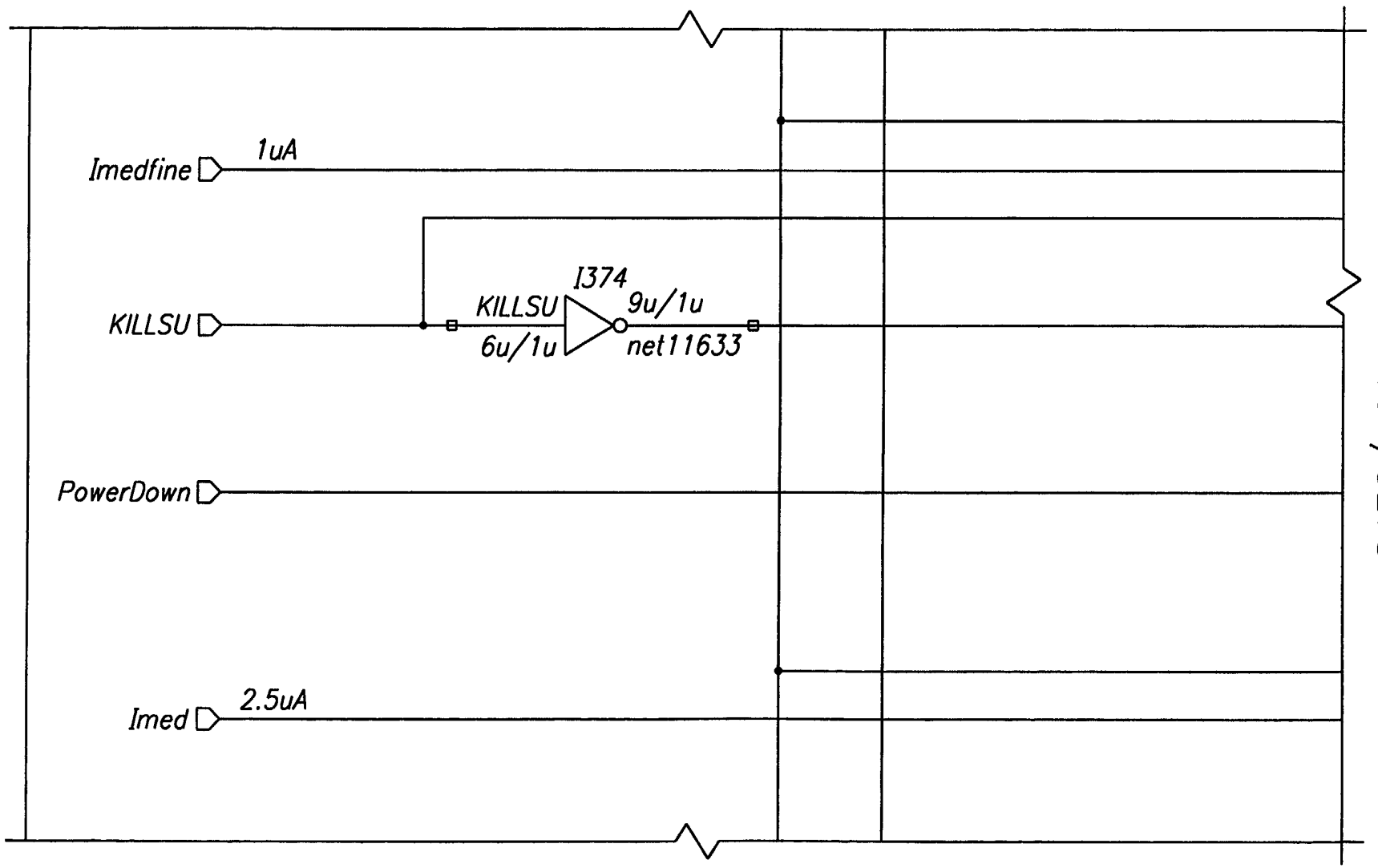

Imedfine
1uA
KILLSU
I374
KILLSU
9u/1u
6u/1u
net11633
PowerDown
Imed
2.5uA
1594/3273

Fig 8.0504CA

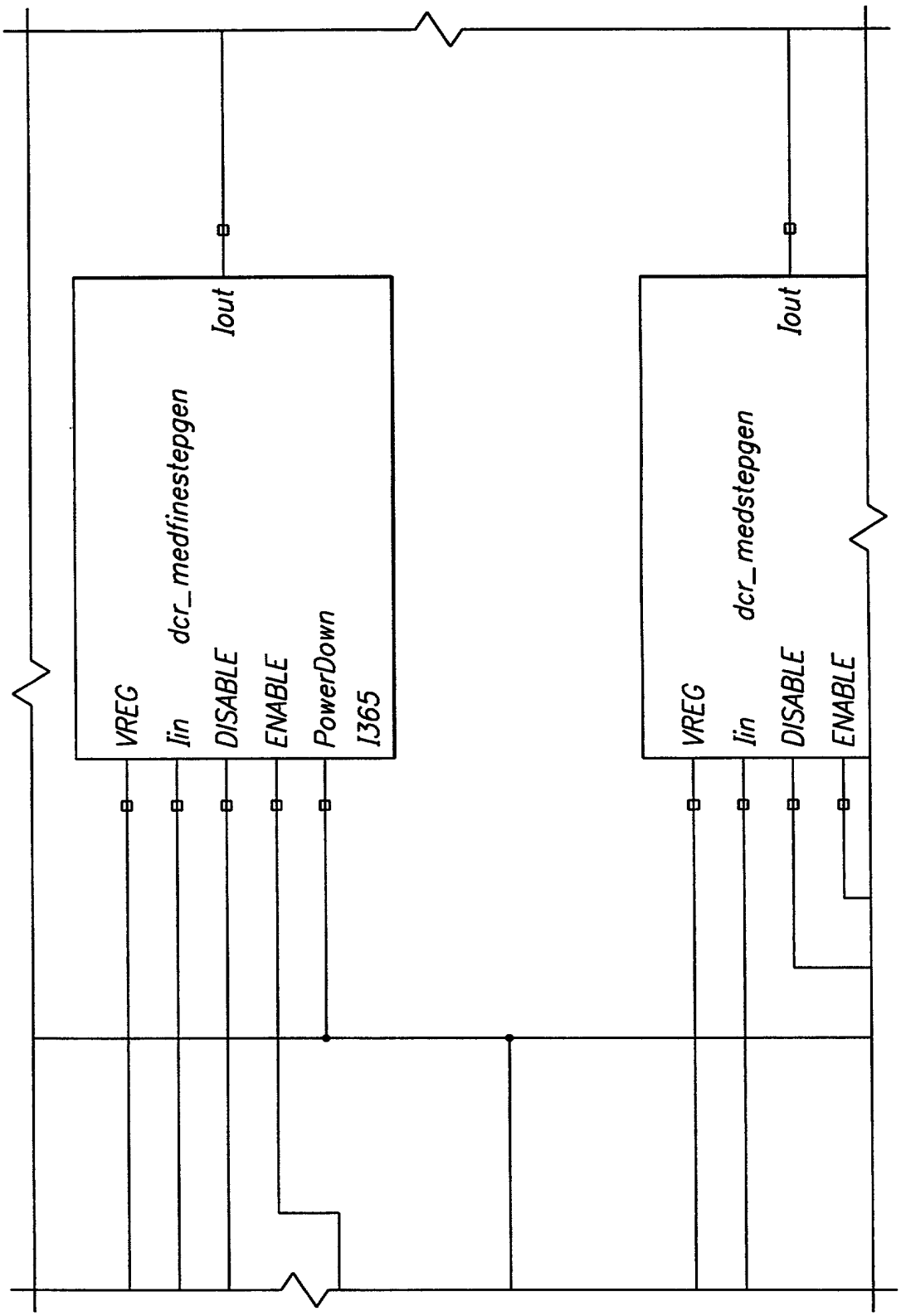
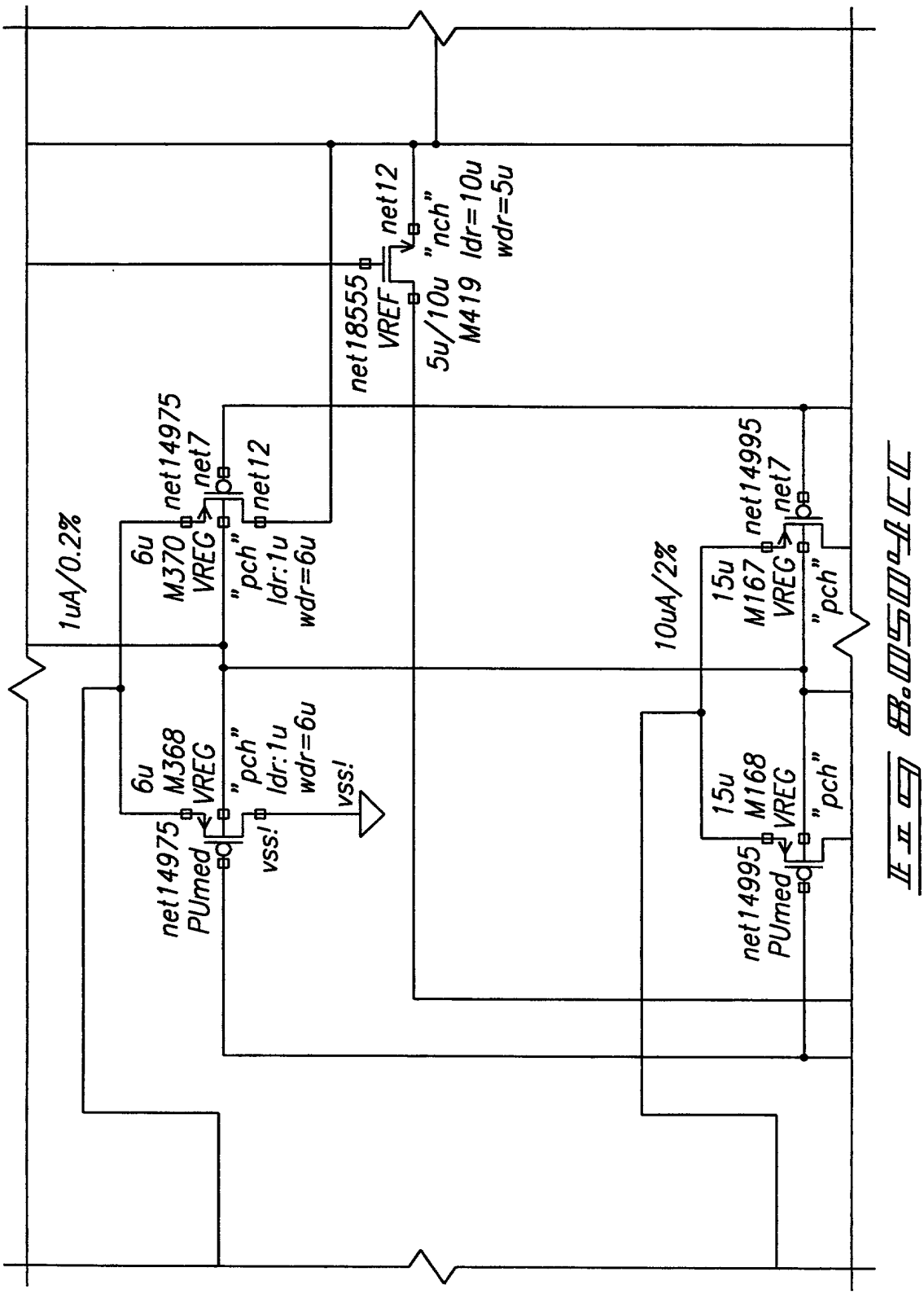


Fig 88.0050

10/15/01, EFS Version 2.00


net18555
VREF
net12
"nch"
ldr=10u
wdr=5u
5u/10u
M419
1uA/0.2%
6u
M370
VREG
net14975
net7
"pch"
ldr:1u
wdr=6u
net12
6u
M368
VREG
"pch"
ldr:1u
wdr=6u
vss!
net14975
PUmed
vss!
10uA/2%
15u
M167
VREG
net14995
net7
"pch"
15u
M168
VREG
"pch"
net14995
PUmed

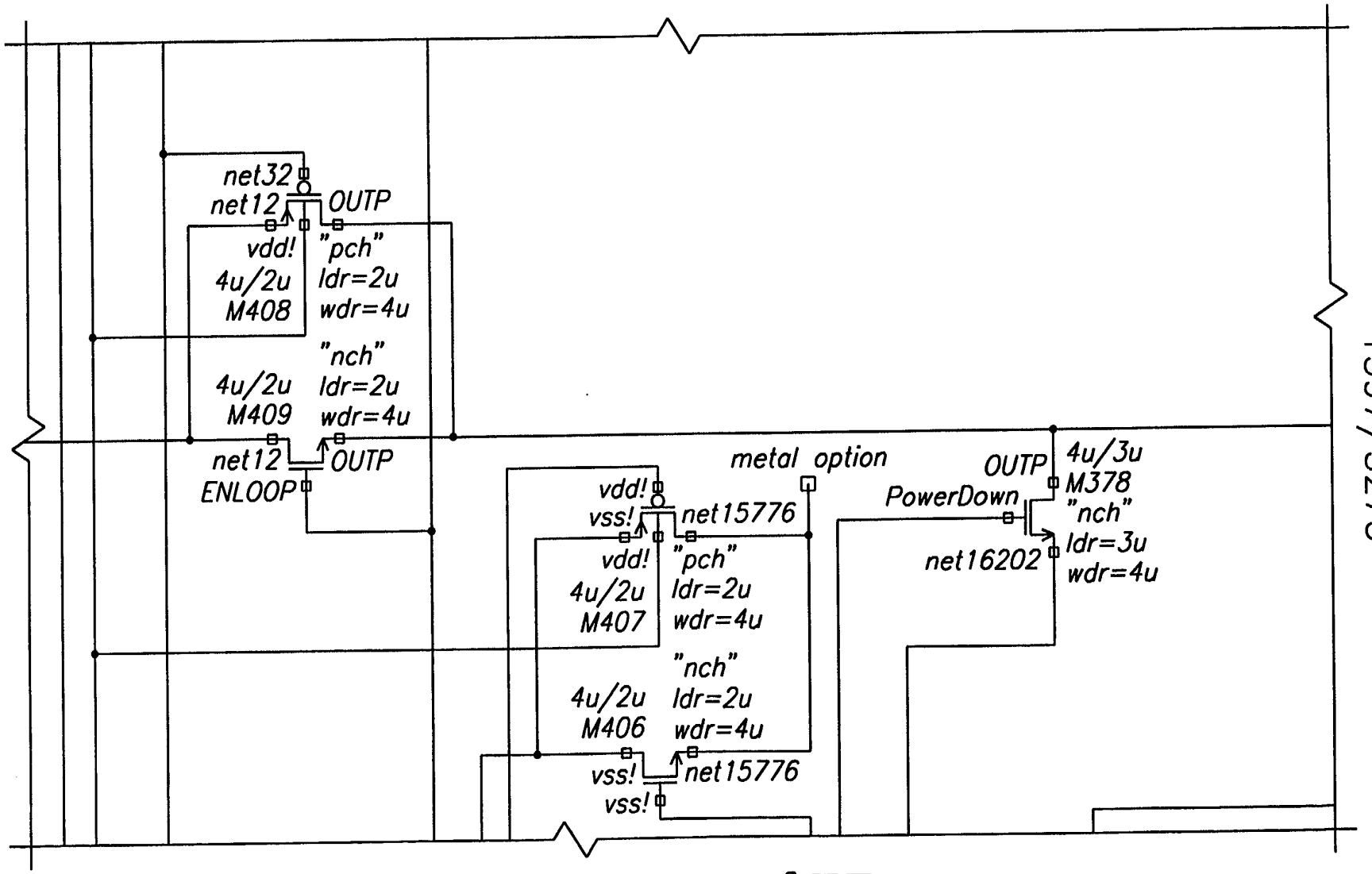

net32
net12
OUTP
vdd!
"pch"
4u/2u
ldr=2u
M408
wdr=4u
"nch"
4u/2u
ldr=2u
M409
wdr=4u
net12
OUTP
ENLOOP
metal option
vdd!
vss!
net15776
vdd!
"pch"
4u/2u
ldr=2u
M407
wdr=4u
"nch"
4u/2u
ldr=2u
M406
wdr=4u
vss!
net15776
vss!
OUTP
4u/3u
M378
PowerDown
"nch"
ldr=3u
net16202
wdr=4u
1597/3273

Fig 8.0504CD

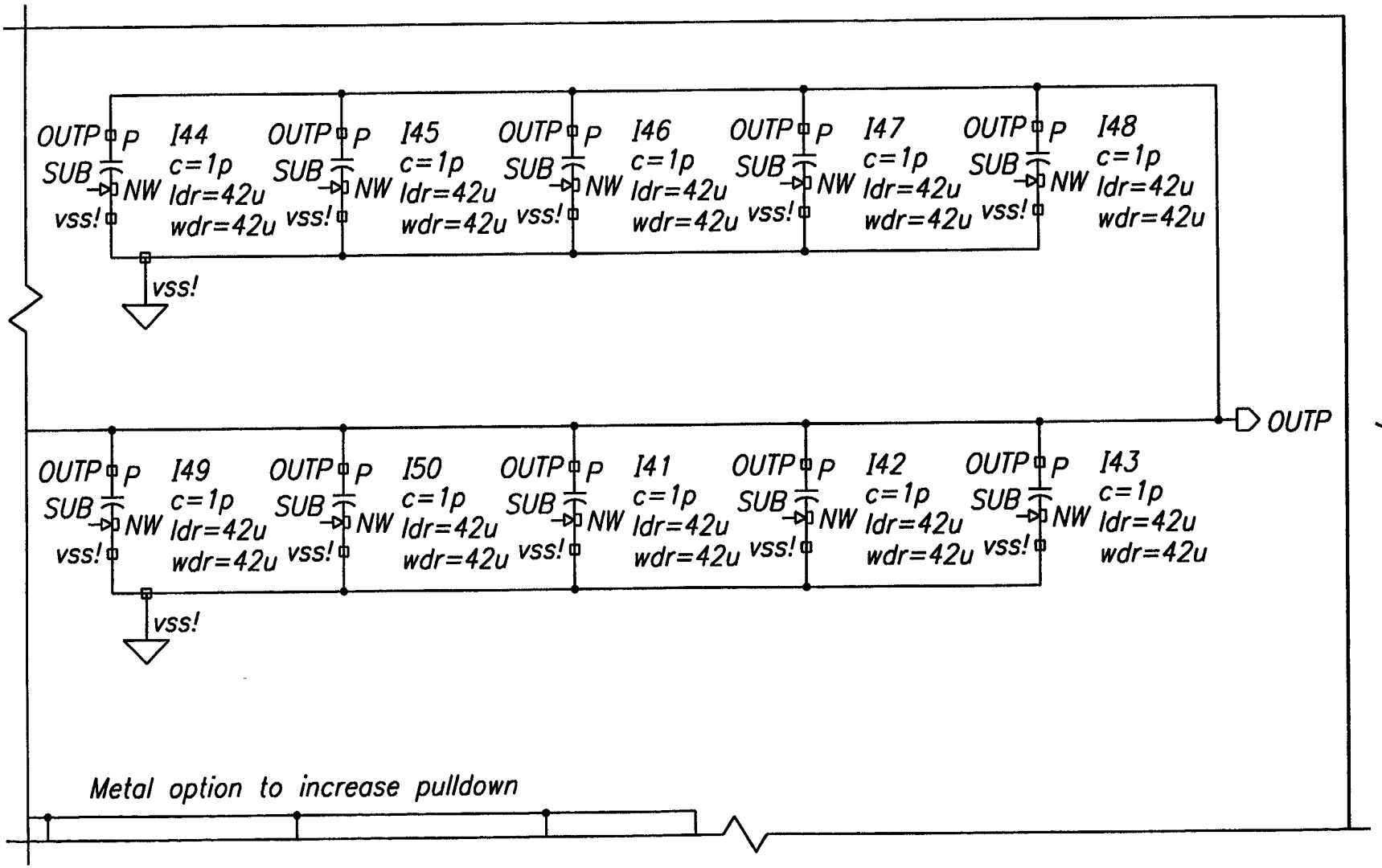

OUTP
P
SUB
NW
vss!
I44
c=1p
ldr=42u
wdr=42u
I45
I46
I47
I48
I49
I50
I41
I42
I43
OUTP
Metal option to increase pulldown

Fig 8.0504CE

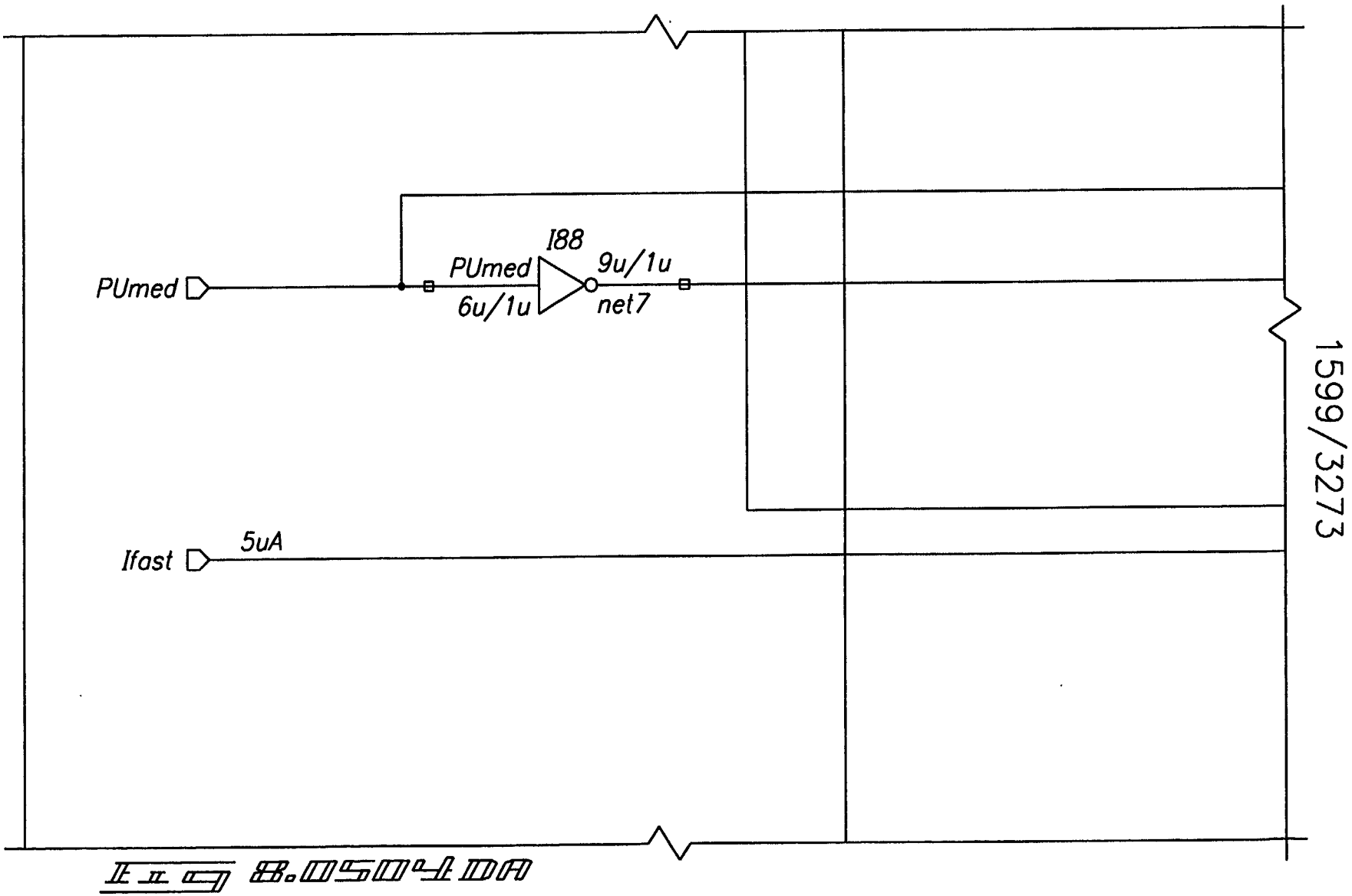
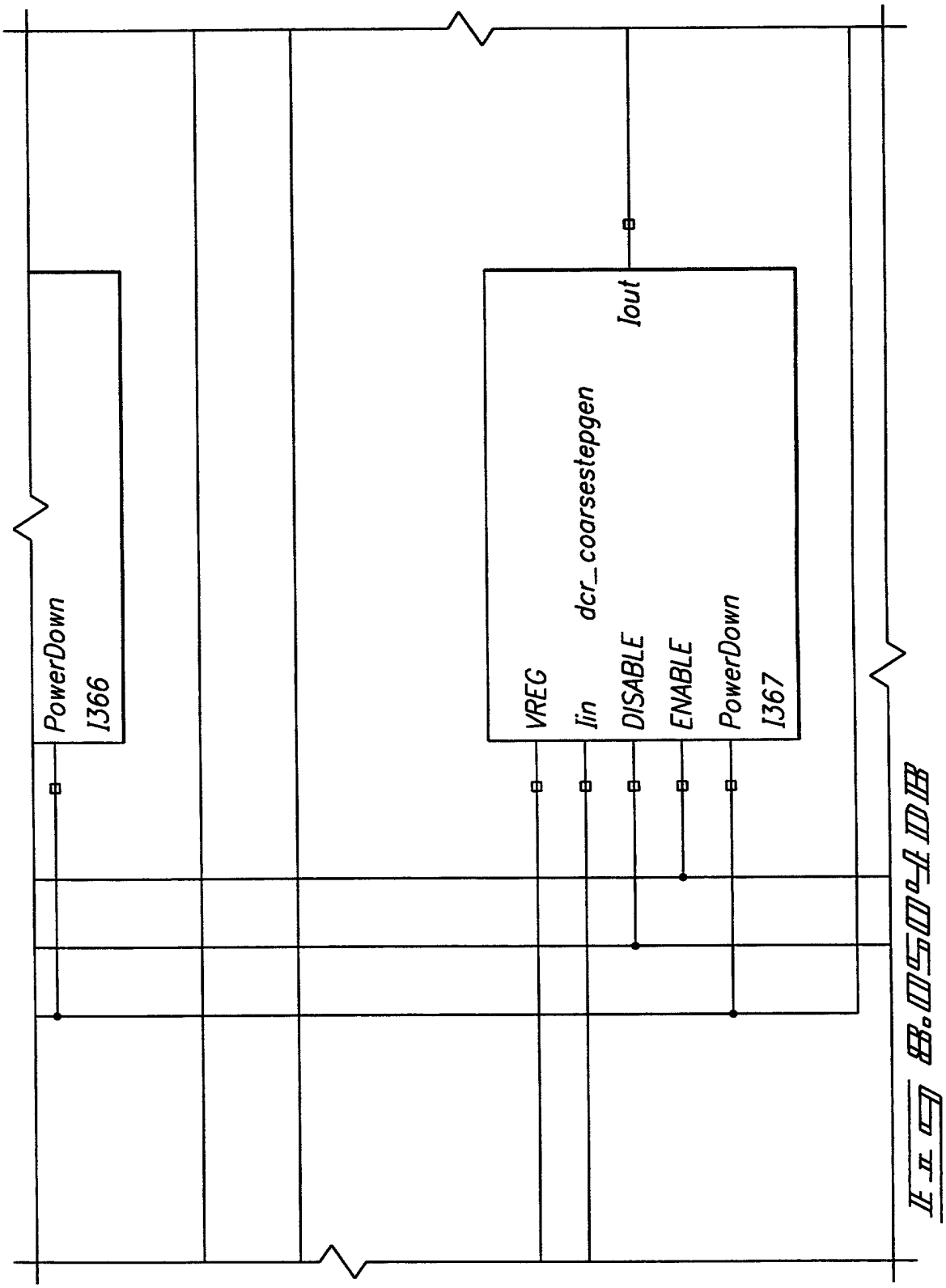
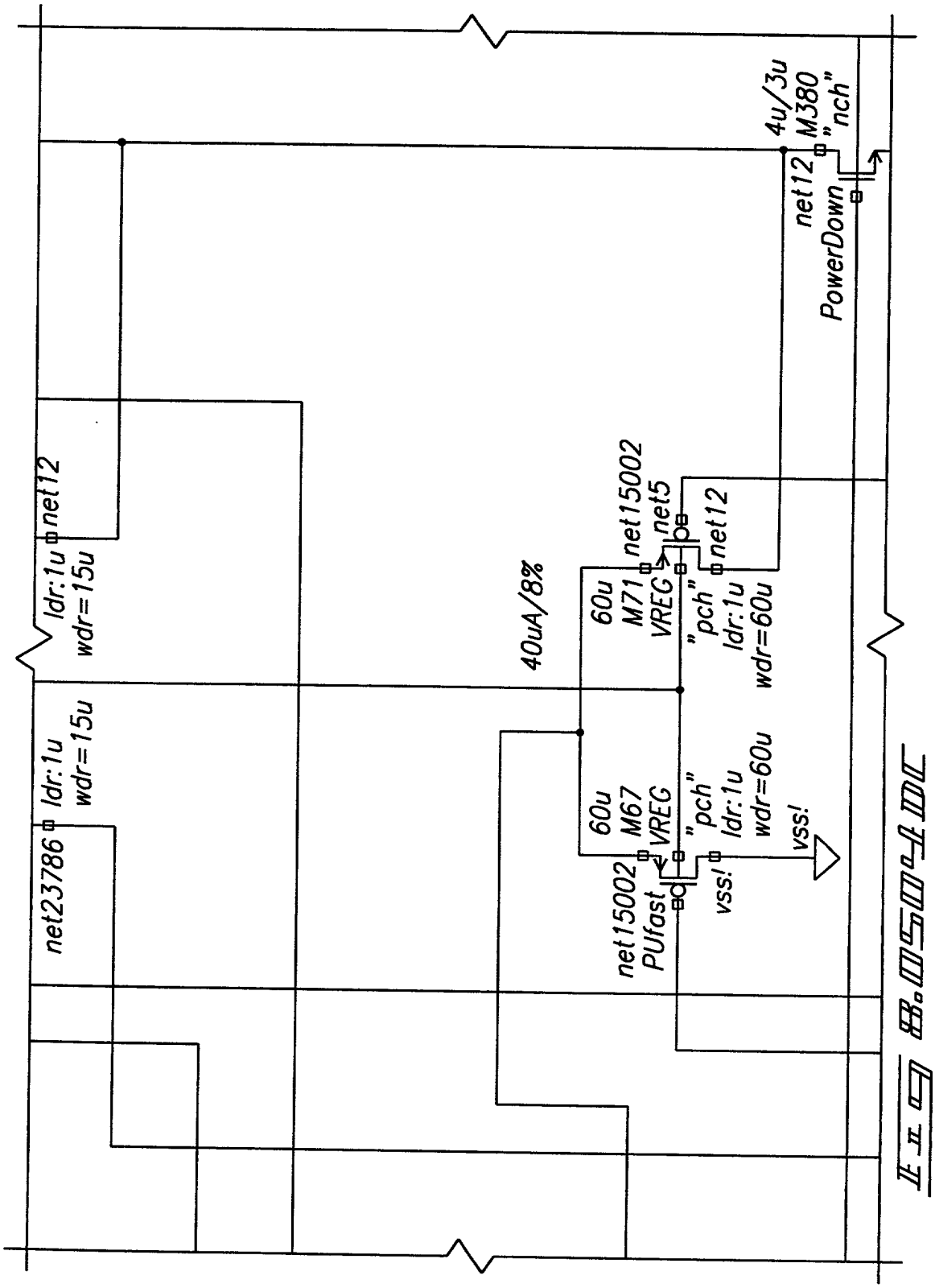


Fig 8.0504DA



ФИГ. 8.005

EP 1 750 360 A1


4u/3u
M380
"nch"
net12
PowerDown
ldr:1u
wdr=15u
net12
40uA/8%
60u
M71
VREG
net15002
net5
"pch"
ldr:1u
wdr=60u
net12
ldr:1u
wdr=15u
net23786
60u
M67
VREG
net15002
PUfast
"pch"
ldr:1u
wdr=60u
vss!
vss!

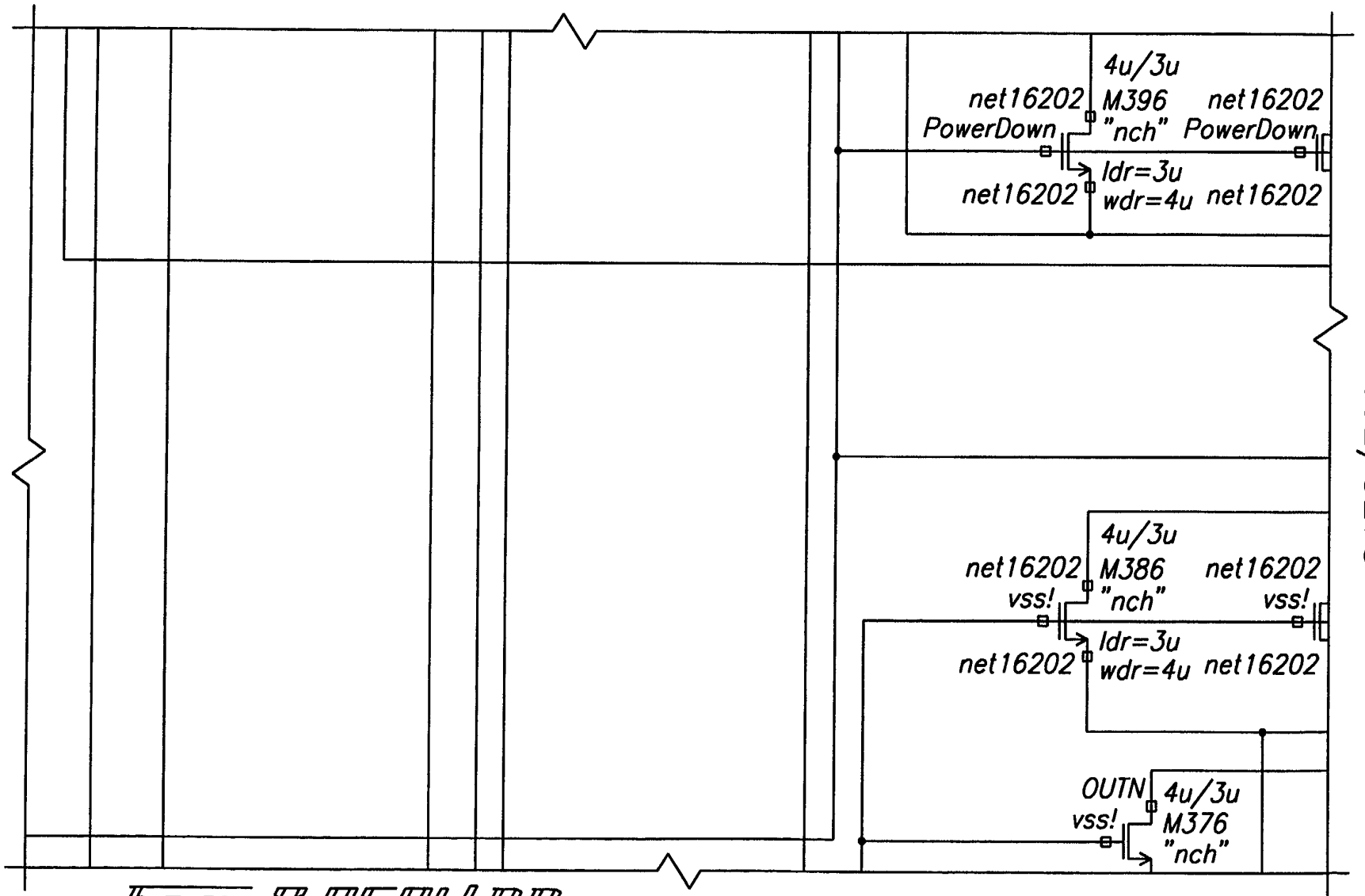
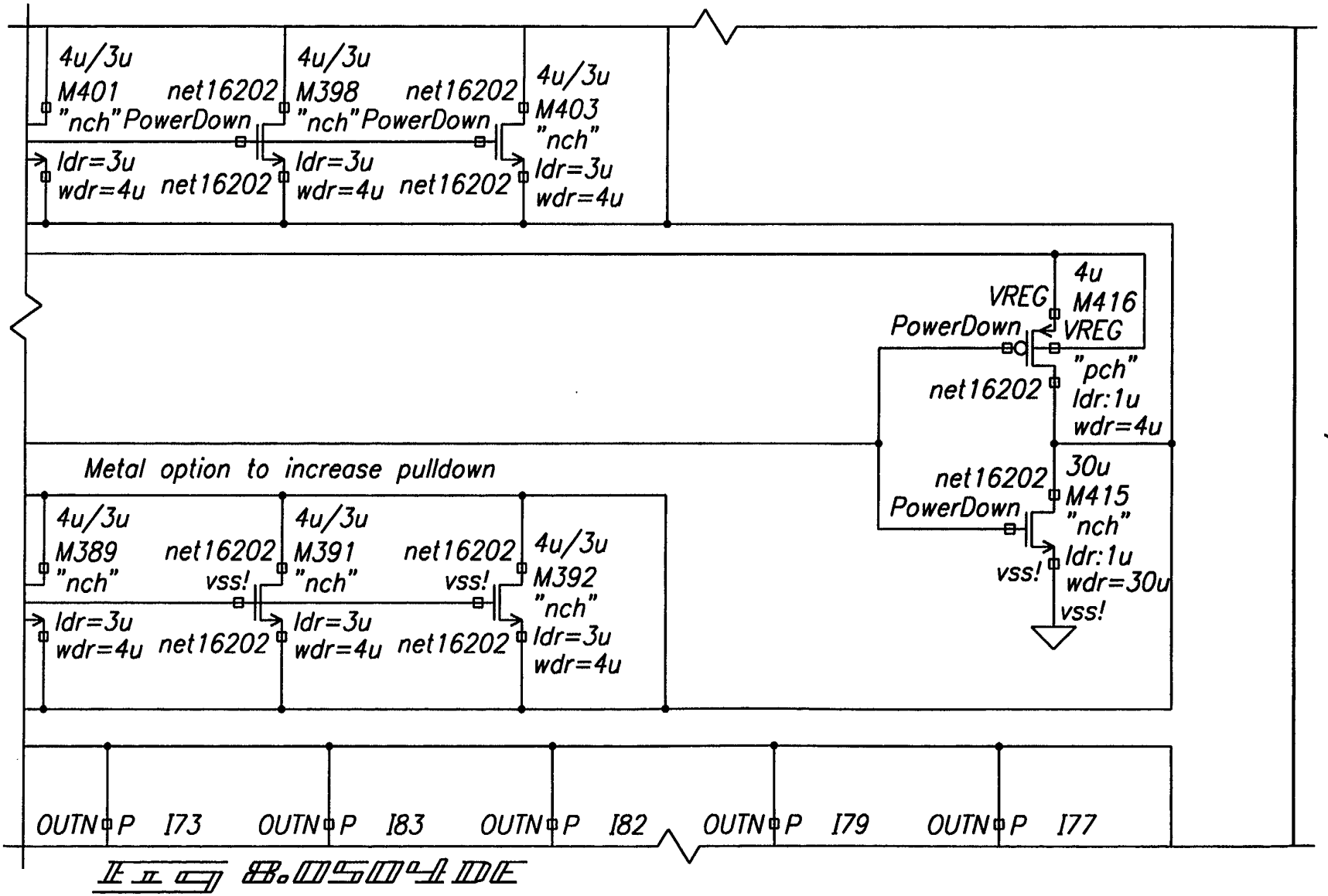

4u/3u
net16202
M396
net16202
PowerDown
"nch"
PowerDown
ldr=3u
net16202
wdr=4u
net16202
1602/3273
4u/3u
net16202
M386
net16202
vss!
"nch"
vss!
ldr=3u
net16202
wdr=4u
net16202
OUTN
4u/3u
vss!
M376
"nch"

Fig 8.0504DD


4u/3u
M401
"nch"
PowerDown
net16202
ldr=3u
wdr=4u
net16202
4u/3u
M398
"nch"
PowerDown
net16202
ldr=3u
wdr=4u
net16202
4u/3u
M403
"nch"
ldr=3u
wdr=4u
4u
M416
VREG
PowerDown
VREG
"pch"
ldr:1u
wdr=4u
net16202
Metal option to increase pulldown
4u/3u
M389
"nch"
net16202
ldr=3u
wdr=4u
4u/3u
M391
"nch"
vss!
net16202
ldr=3u
wdr=4u
4u/3u
M392
"nch"
vss!
net16202
ldr=3u
wdr=4u
net16202
30u
M415
"nch"
PowerDown
vss!
ldr:1u
wdr=30u
vss!
OUTN
P
I73
OUTN
P
I83
OUTN
P
I82
OUTN
P
I79
OUTN
P
I77
1603/3273

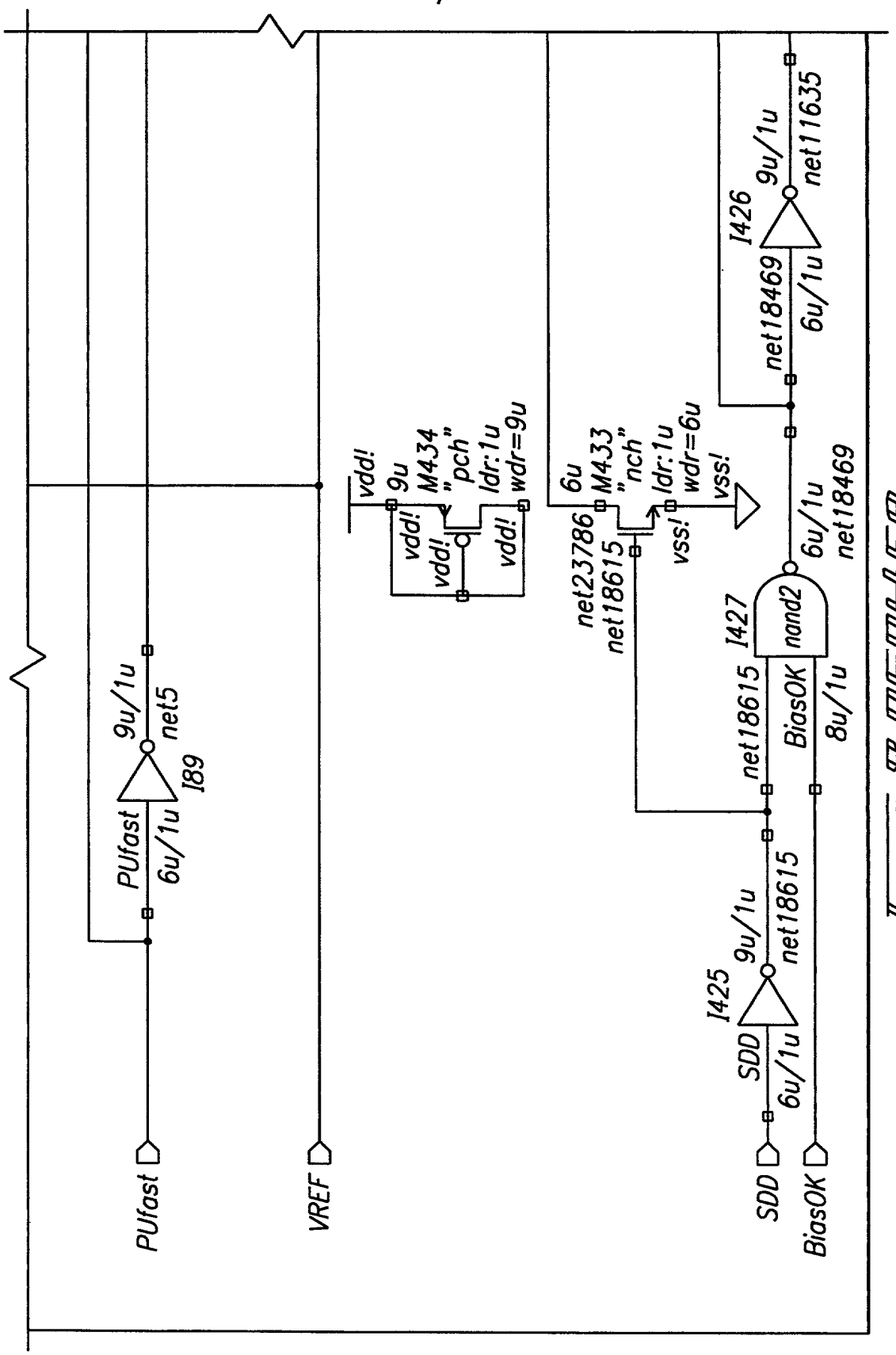
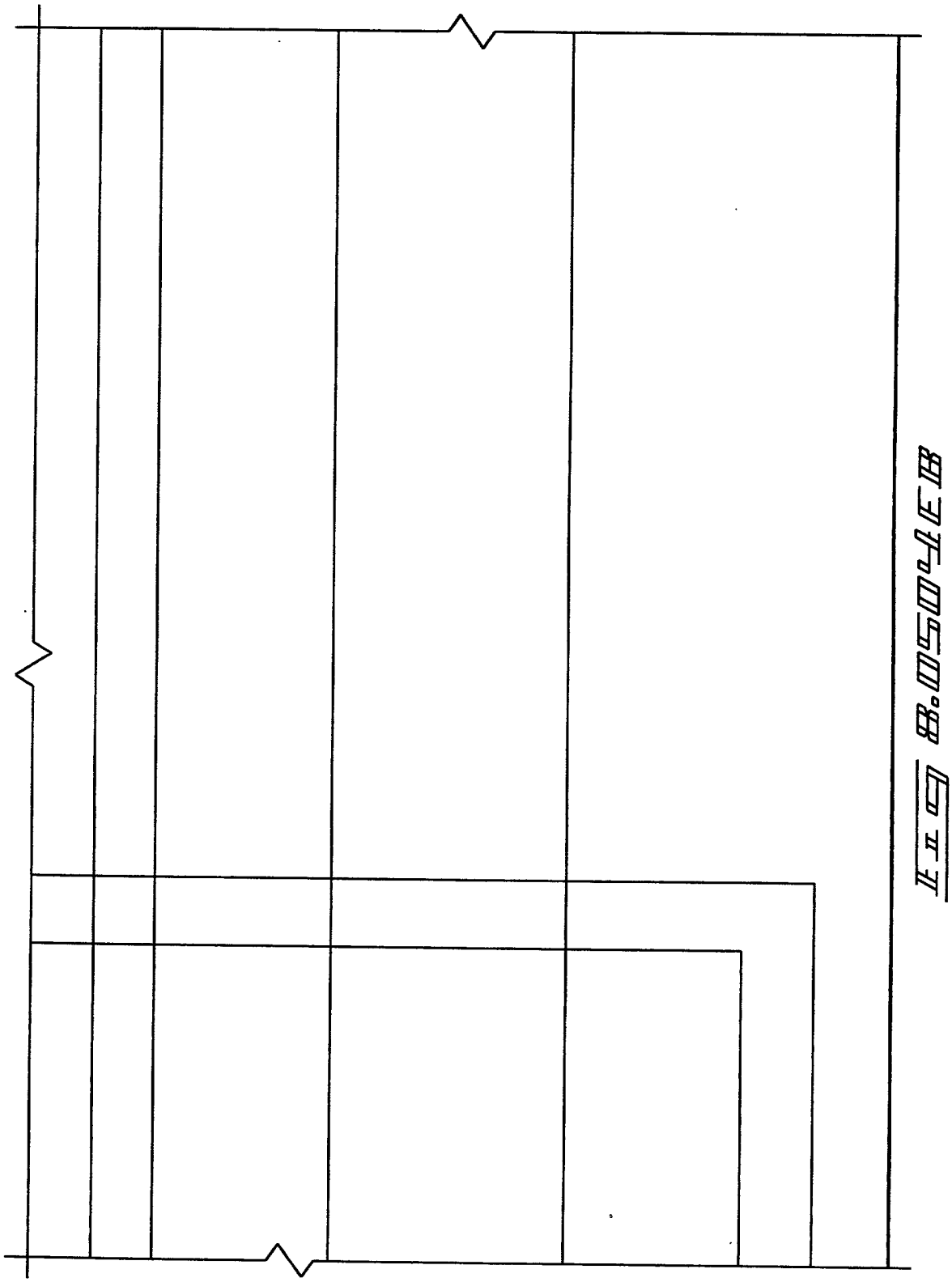
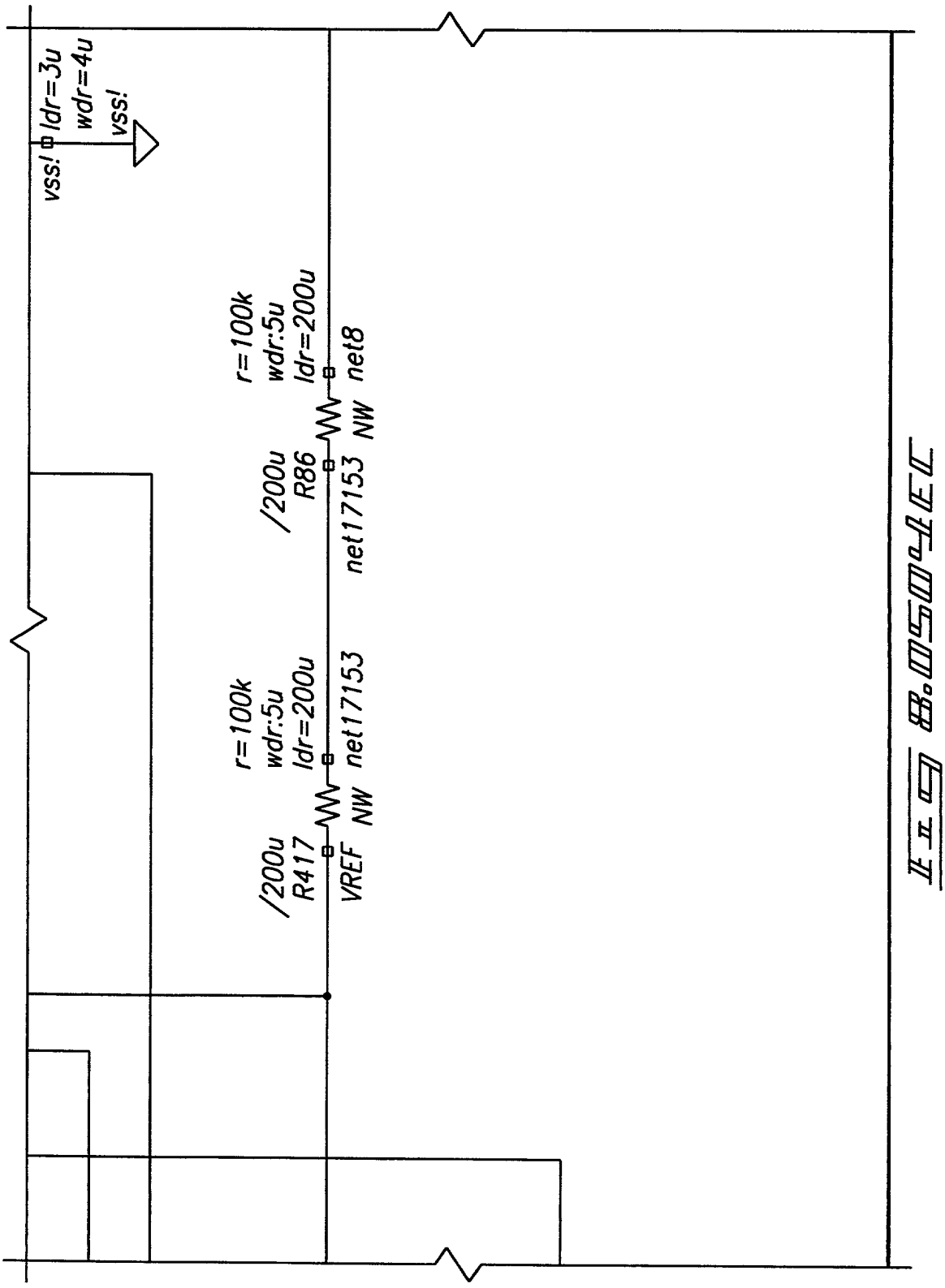

PUfast
VREF
SDD
BiasOK
PUfast
9u/1u
6u/1u
net5
I89
vdd!
9u
M434
"pch"
ldr:1u
wdr=9u
vdd!
vdd!
vdd!
6u
M433
"nch"
ldr:1u
wdr=6u
vss!
vss!
net23786
net18615
I427
nand2
net18615
BiasOK
6u/1u
net18469
8u/1u
I426
9u/1u
net11635
net18469
6u/1u
I425
9u/1u
net18615
SDD
6u/1u
net18615

Fig 8.05d-1EA

1605/3273



DEED BOOK 1605 PG 3273


vss!
ldr=3u
wdr=4u
vss!
r=100k
wdr:5u
ldr=200u
net8
/200u
R86
NW
net17153
r=100k
wdr:5u
ldr=200u
/200u
R417
NW
VREF
net17153

Фиг. 8.0504ЕС

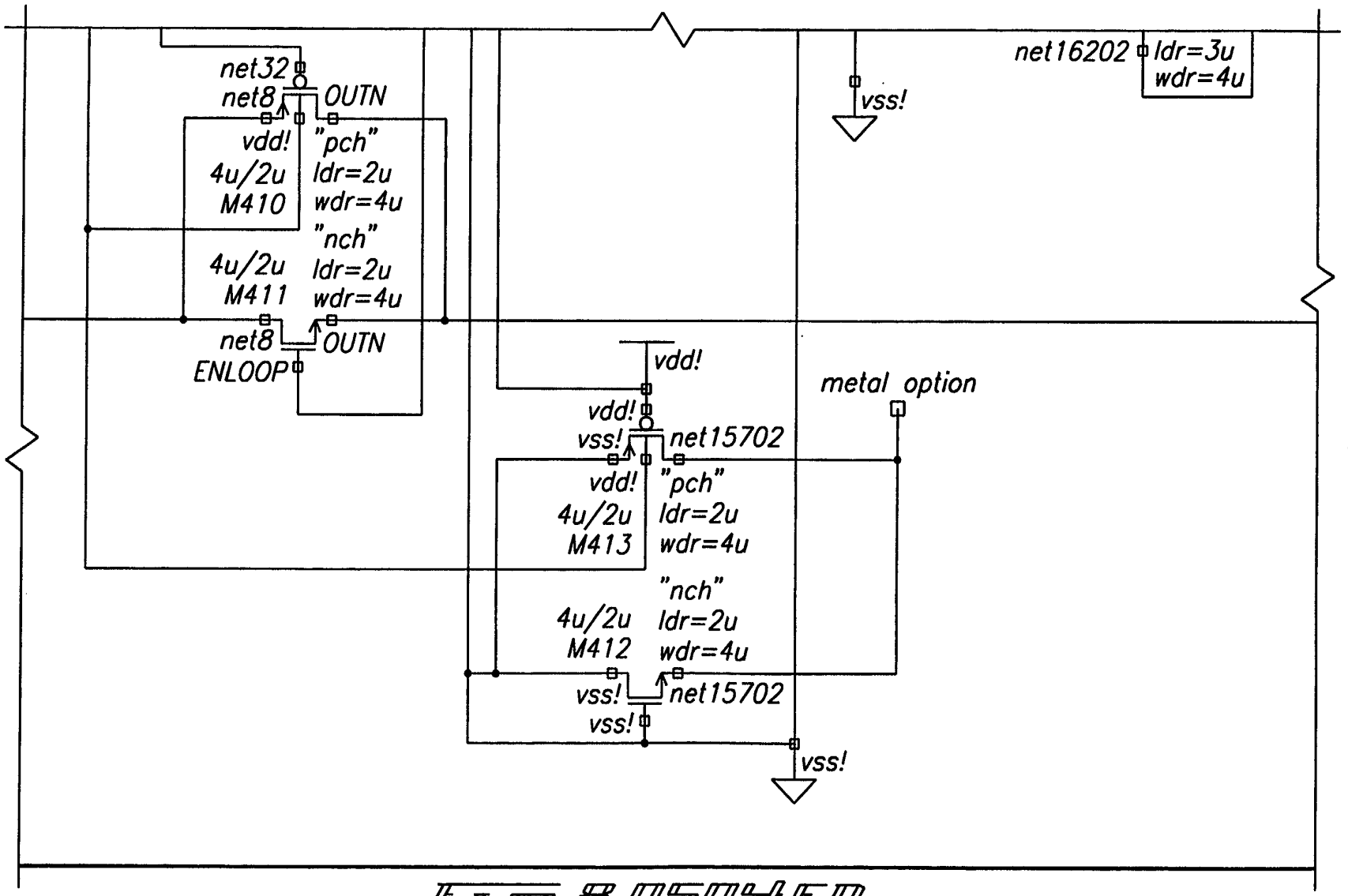

net32
net8
OUTN
vdd!
"pch"
4u/2u
ldr=2u
M410
wdr=4u
"nch"
4u/2u
ldr=2u
M411
wdr=4u
net8
OUTN
ENLOOP
vss!
net16202
ldr=3u
wdr=4u
vdd!
metal option
vdd!
vss!
net15702
vdd!
"pch"
4u/2u
ldr=2u
M413
wdr=4u
"nch"
4u/2u
ldr=2u
M412
wdr=4u
vss!
net15702
vss!
vss!
1607/3273

Fig 8.0504ED

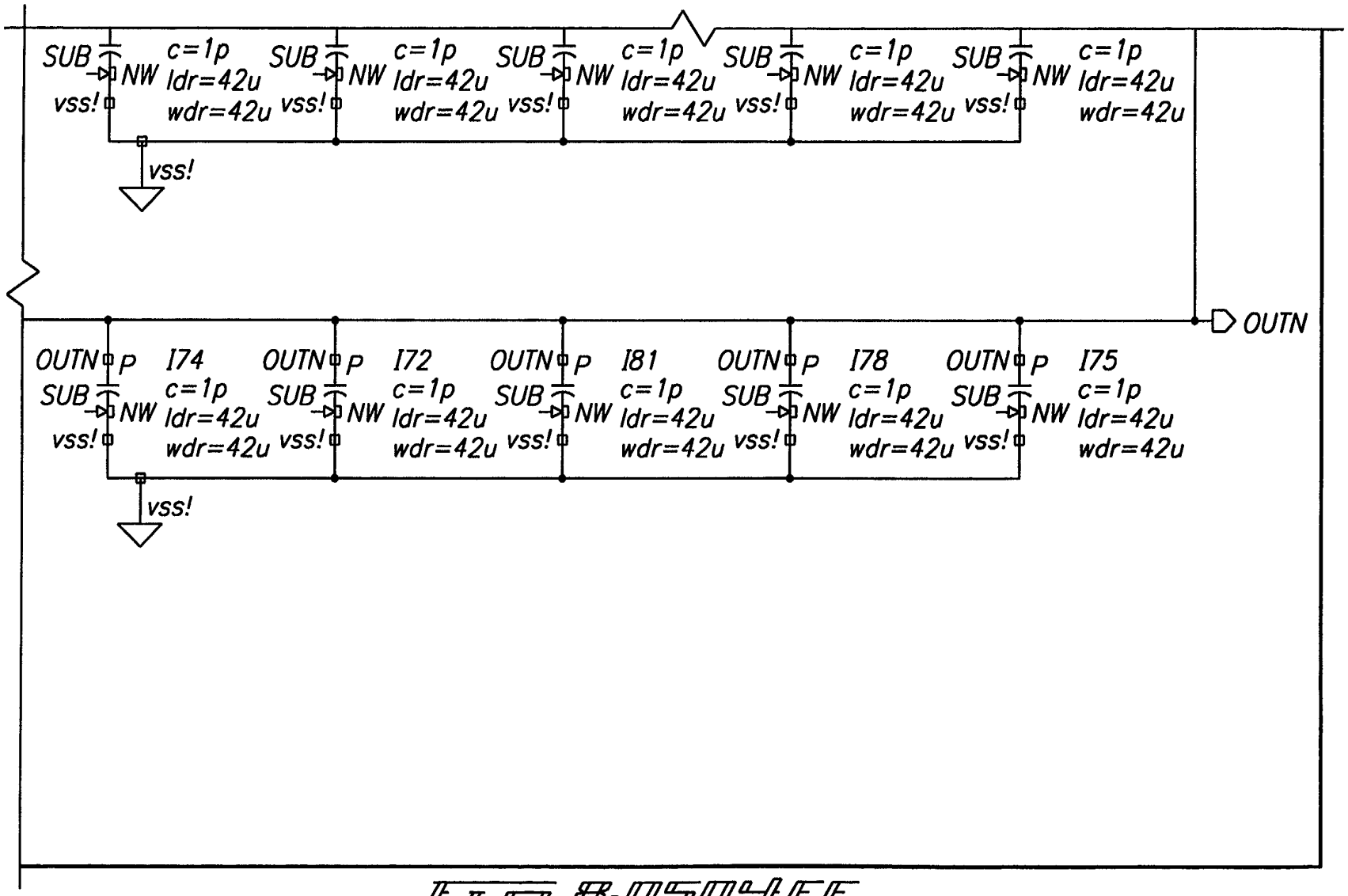


Fig 8.0504E

8.050401AA	8.050401AB	8.050401AC	8.050401AD	8.050401AE	8.050401AF	8.050401AG	8.050401AH	8.050401AI	8.050401AJ	
8.050401BA	8.050401BB	8.050401BC	8.050401BD	8.050401BE	8.050401BF	8.050401BG	8.050401BH	8.050401BI	8.050401BJ	8.050401BK
8.050401CA	8.050401CB	8.050401CC	8.050401CD	8.050401CE	8.050401CF	8.050401CG	8.050401CH	8.050401CI	8.050401CJ	8.050401CK

Fig 8.050401

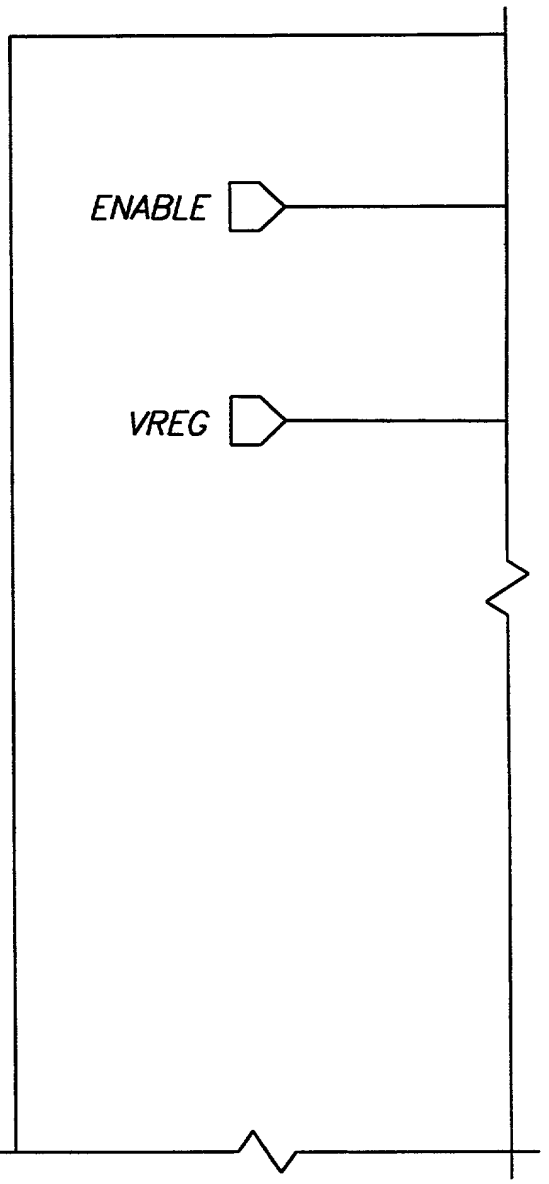


Fig 88.0504.0014AA

Document - 0504.0014

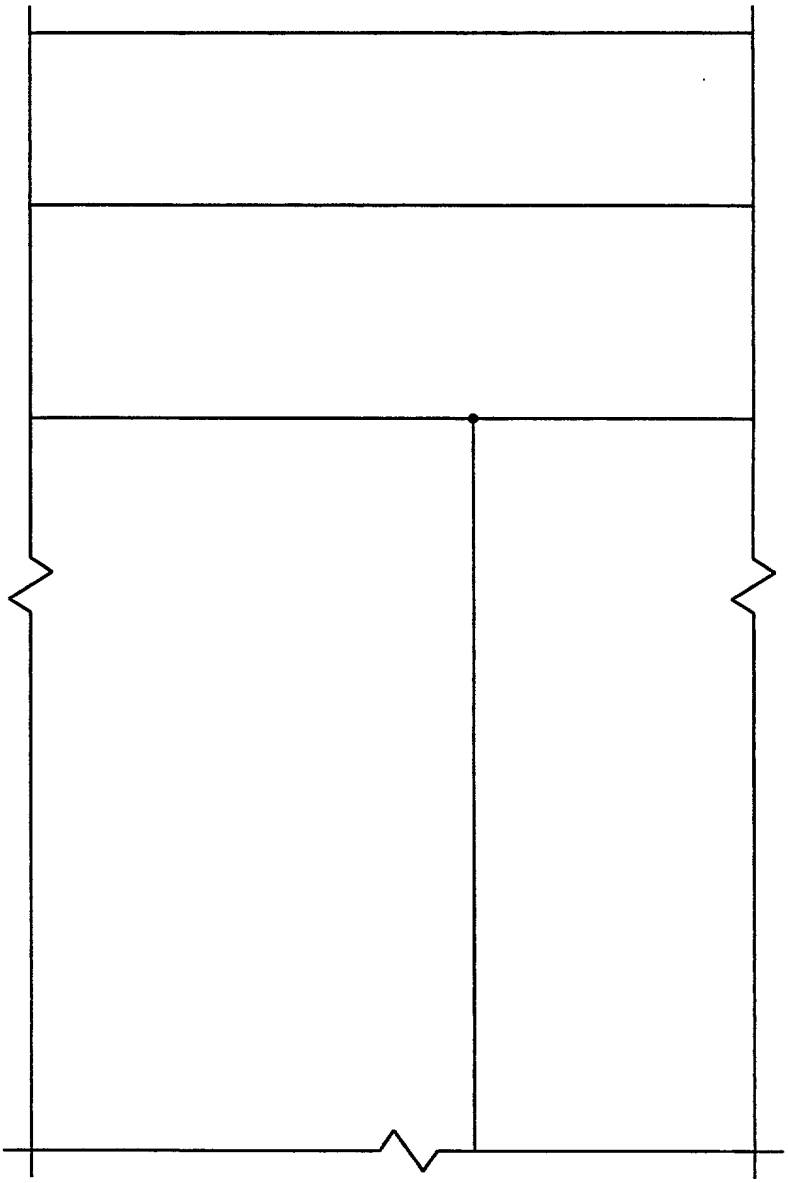


Рис 88.0504.0101АВ

0960505 05/05/05

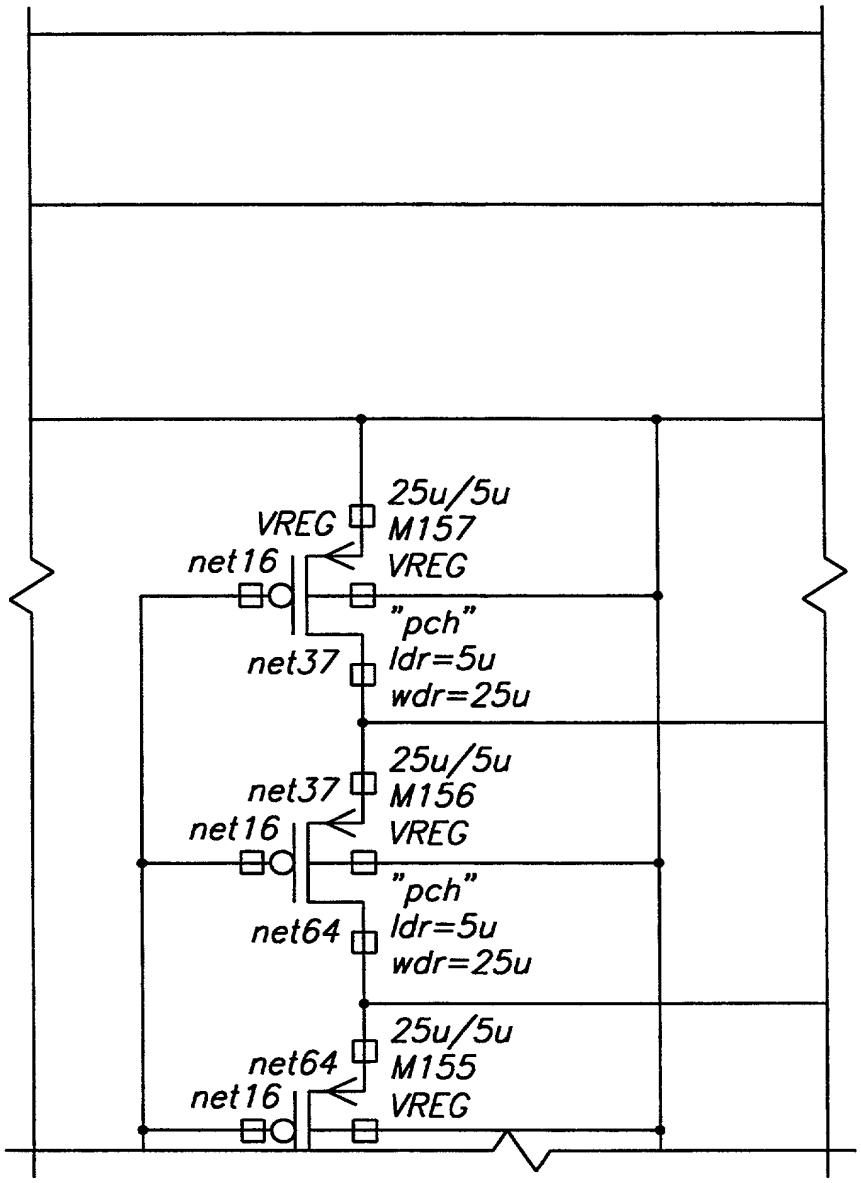


Fig 8.0504.01AC

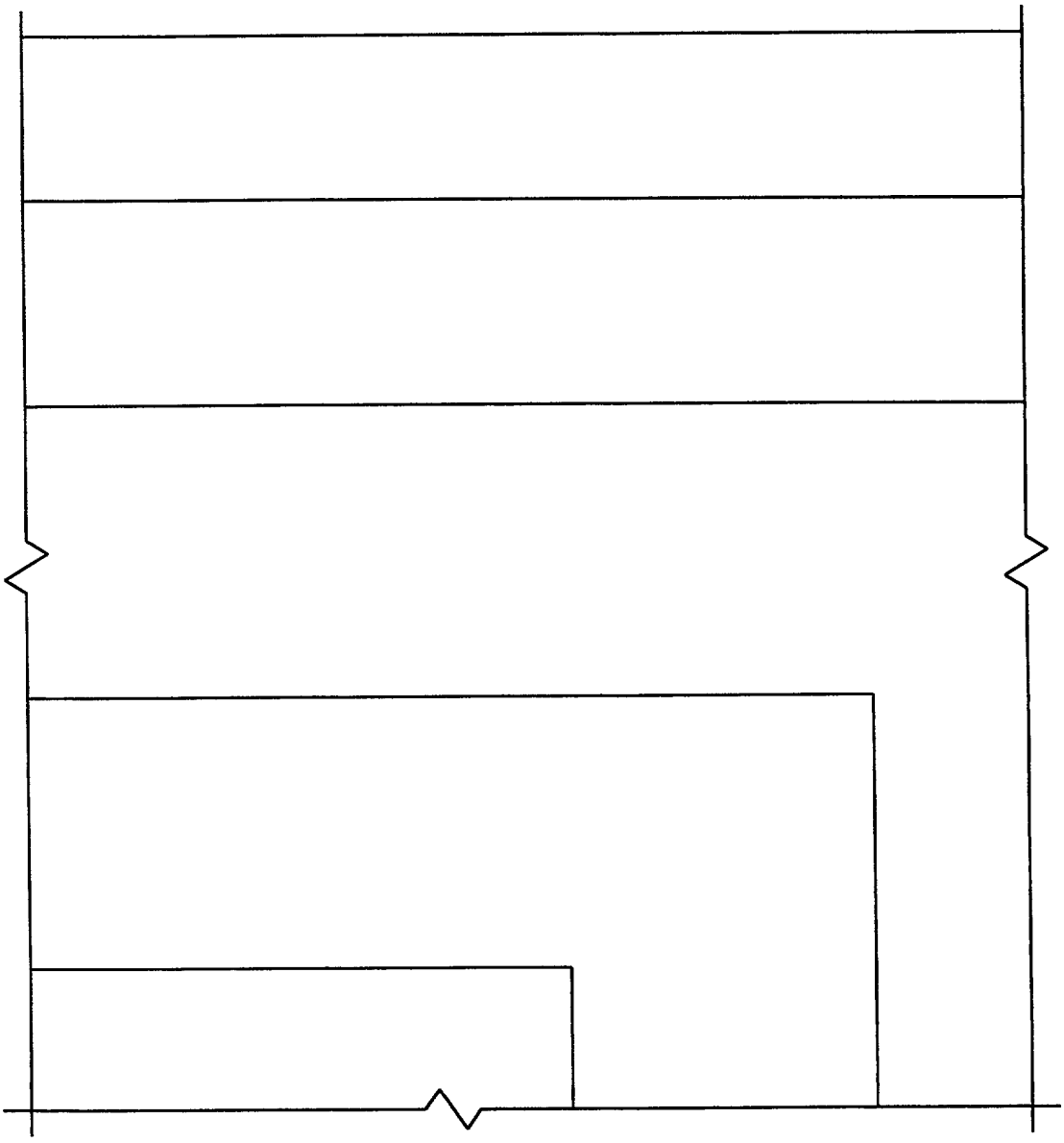


Fig 8.050401AD

Document - 05/12/05

5962-9563501

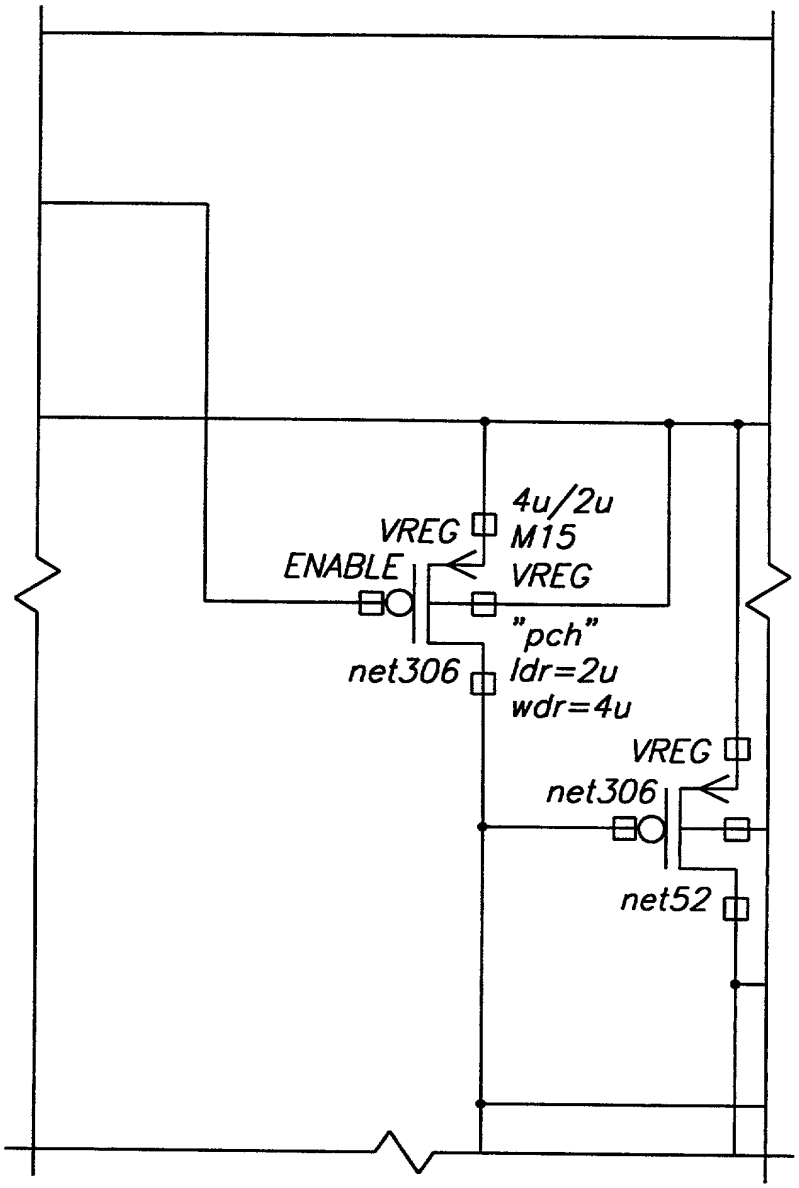


Fig 8.0504.10AE

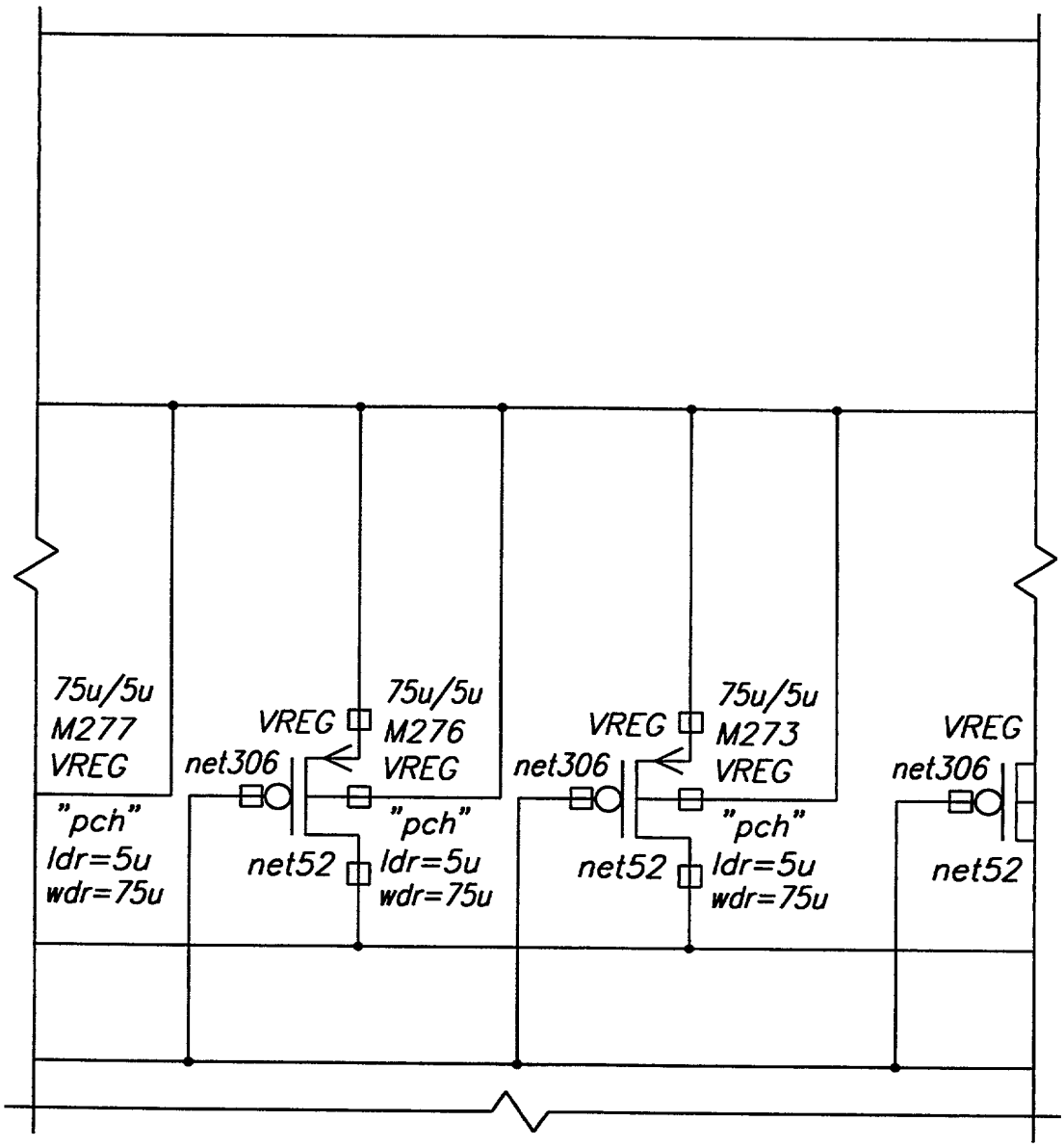


Fig 8,050,401AF

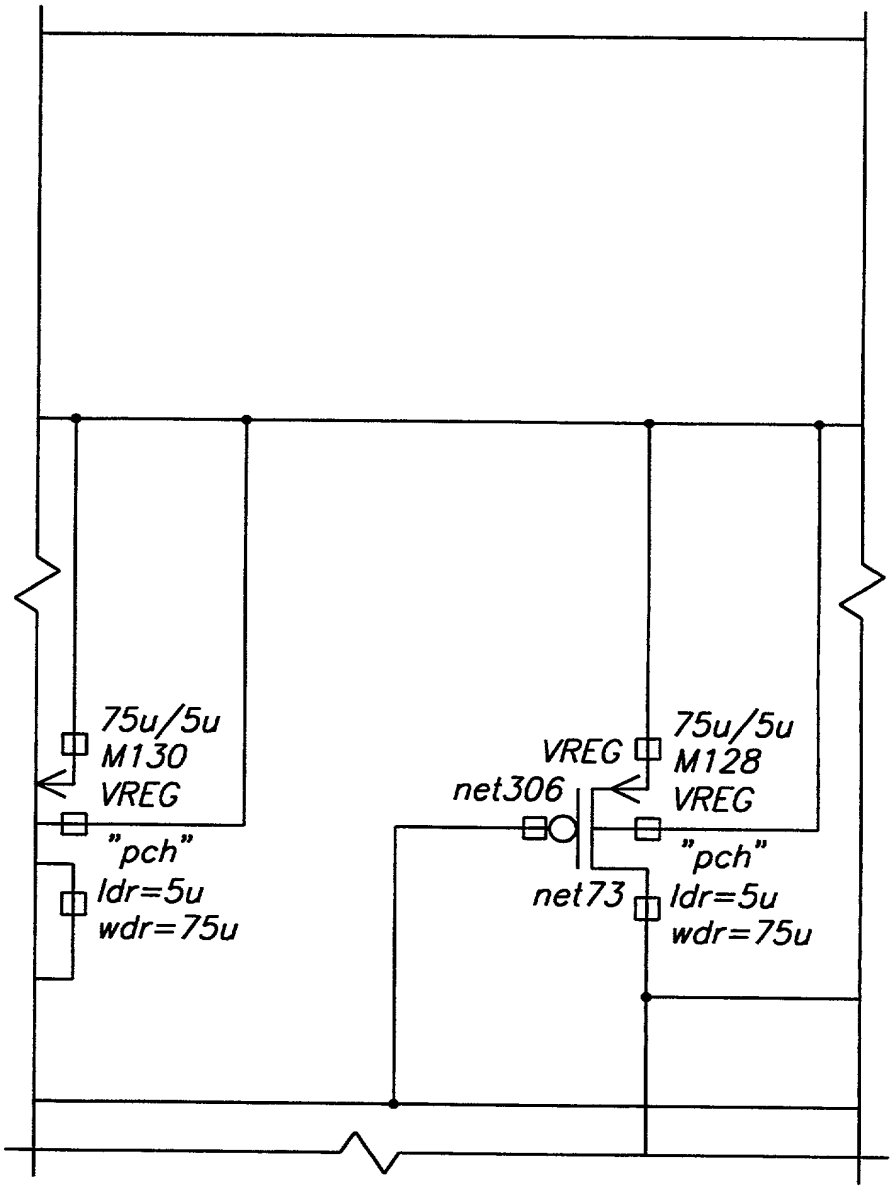


Fig 8.0504.01AG

0562265 - 0562405

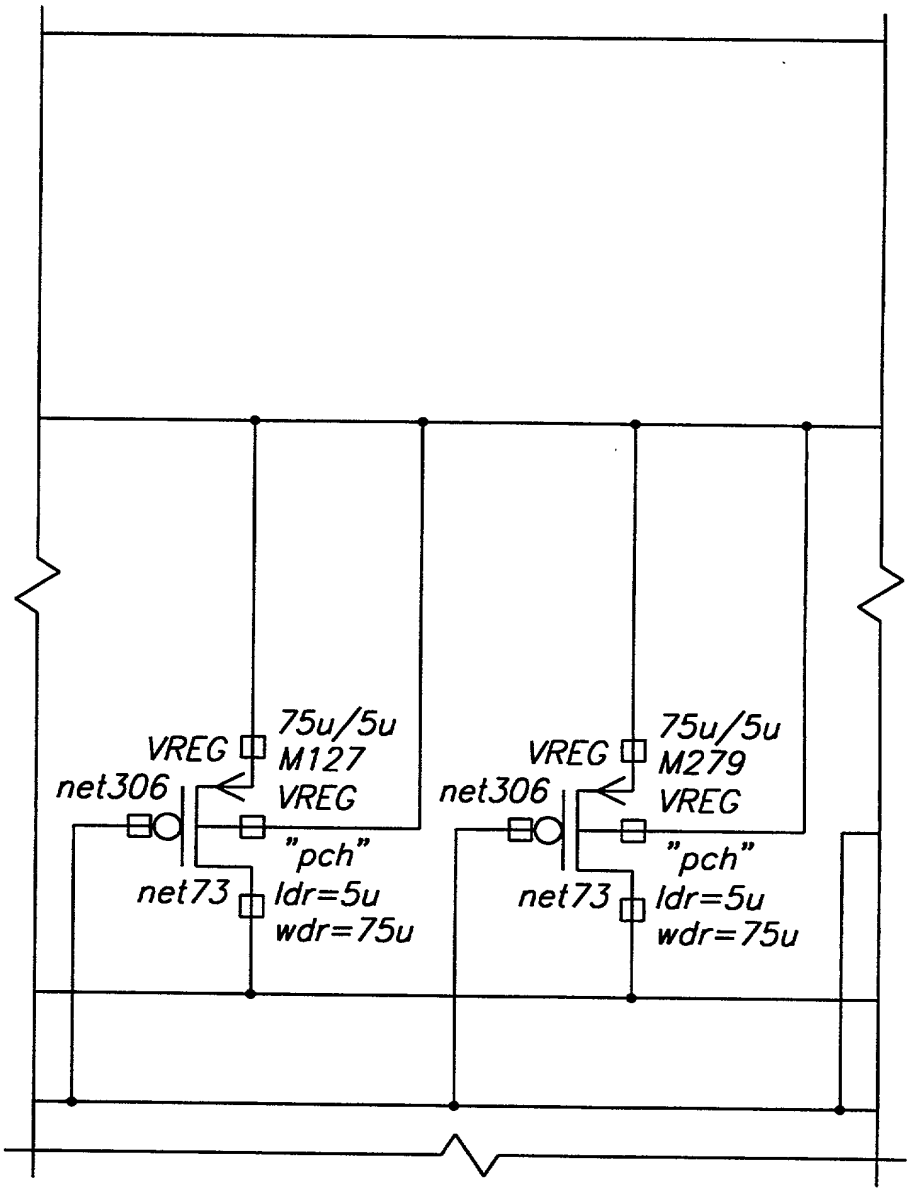


Fig 8.050-4011AH

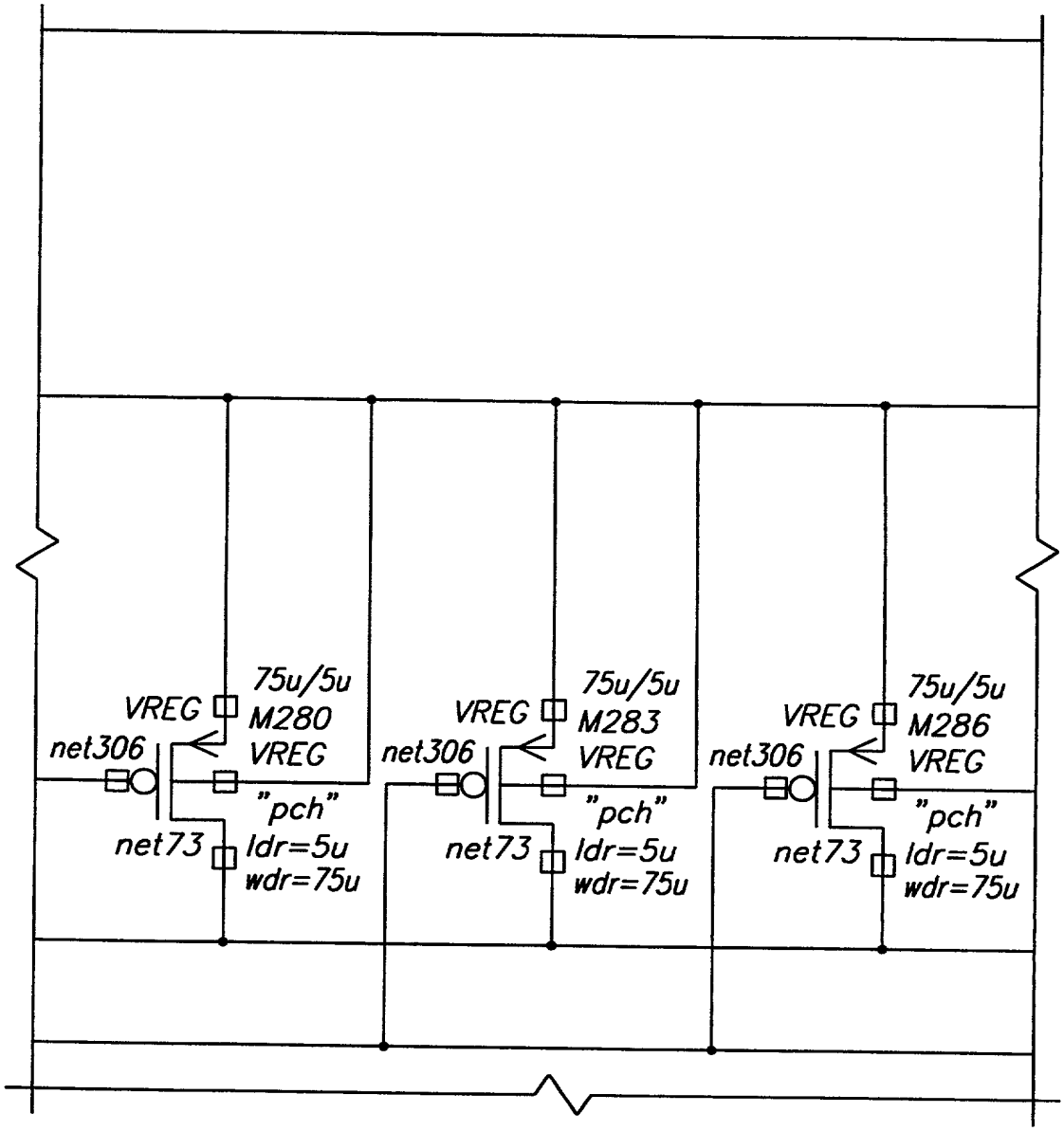


Fig 8.050-4011AII

Generated - 05/15/05

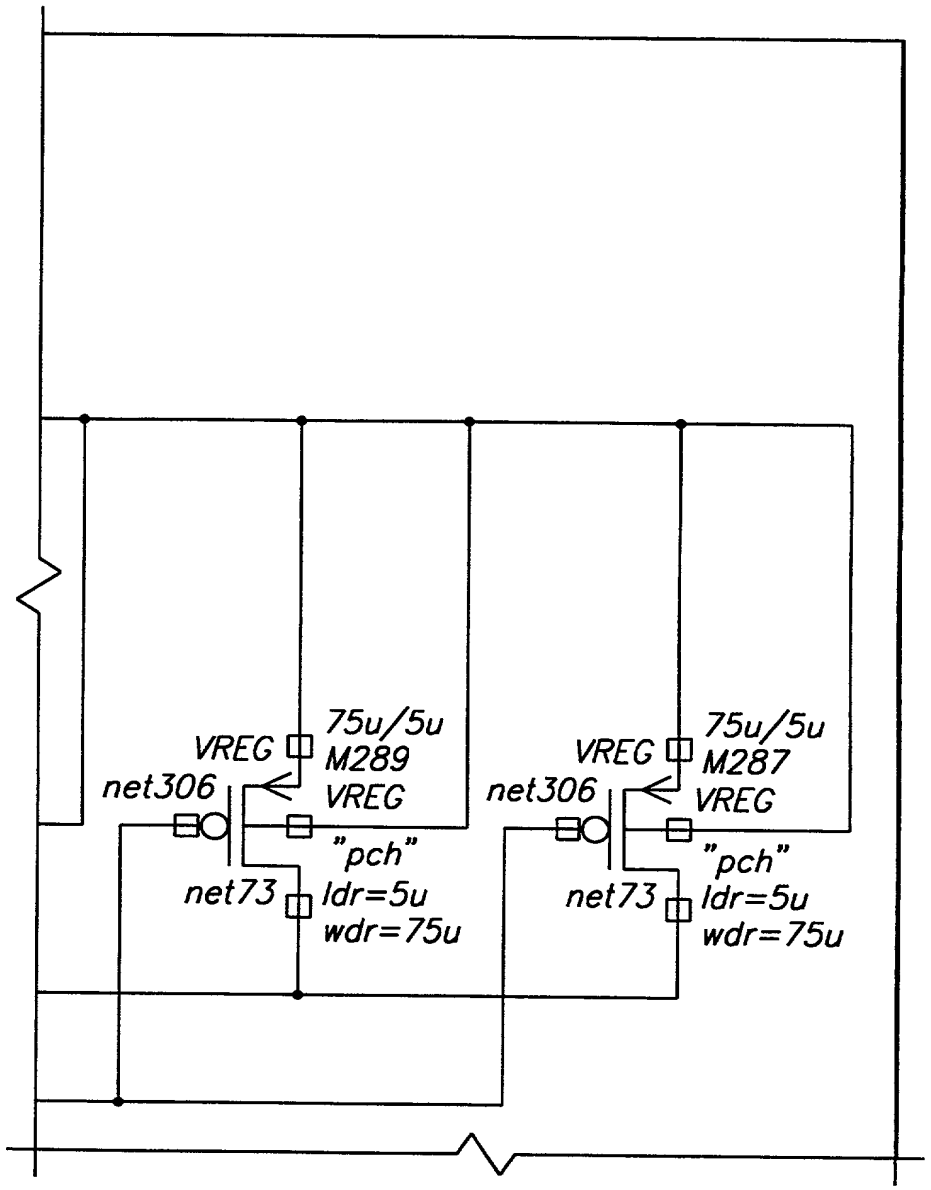


Fig 8.0504.01A.1

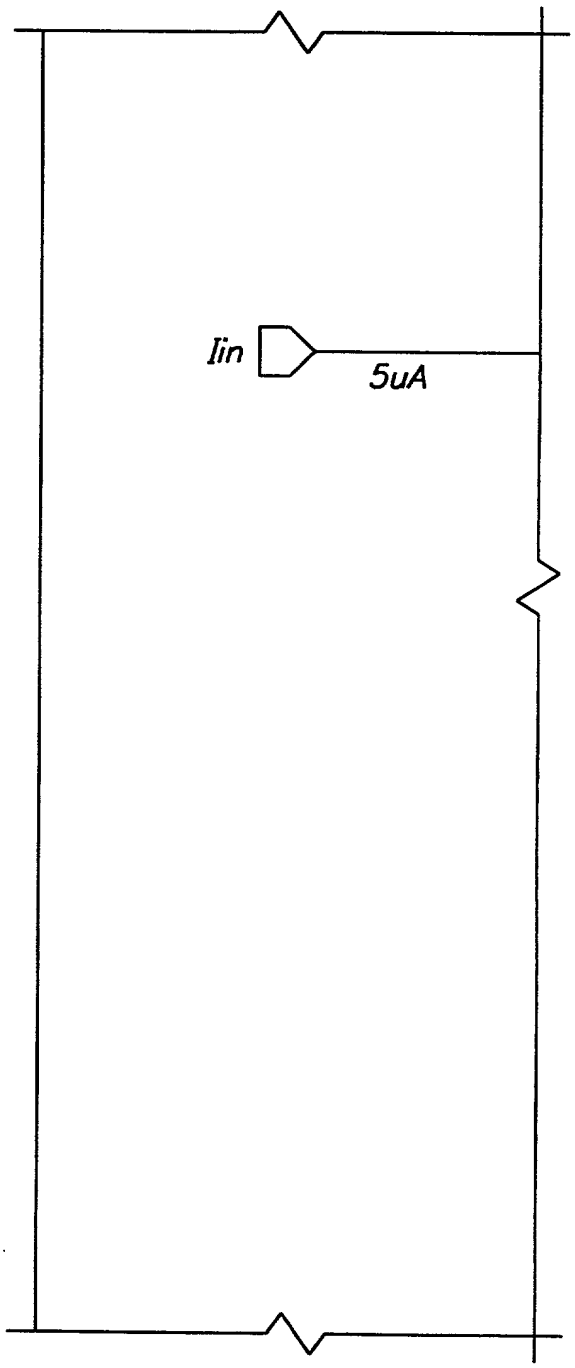


Fig 8.0504.01BA

0562605 0054101

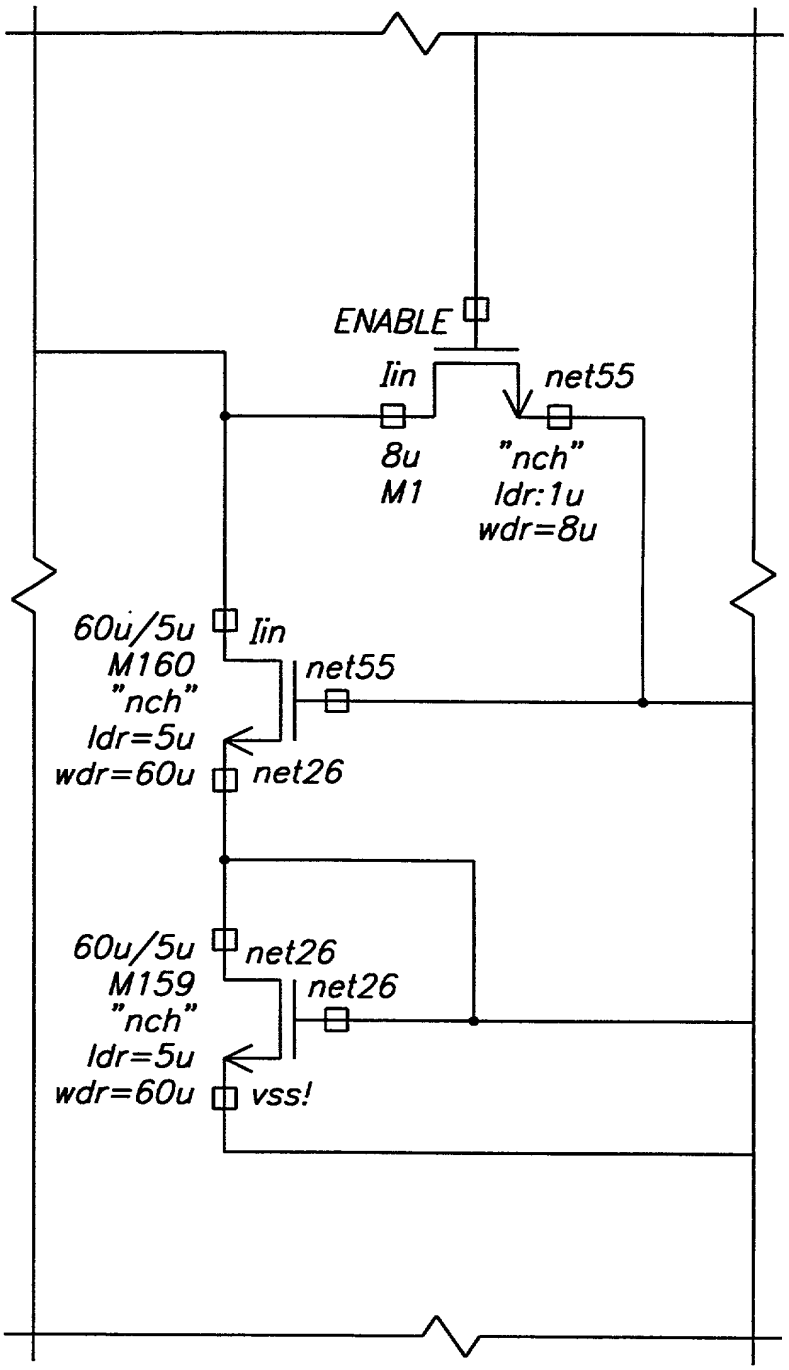


Fig 8.0504.01BB

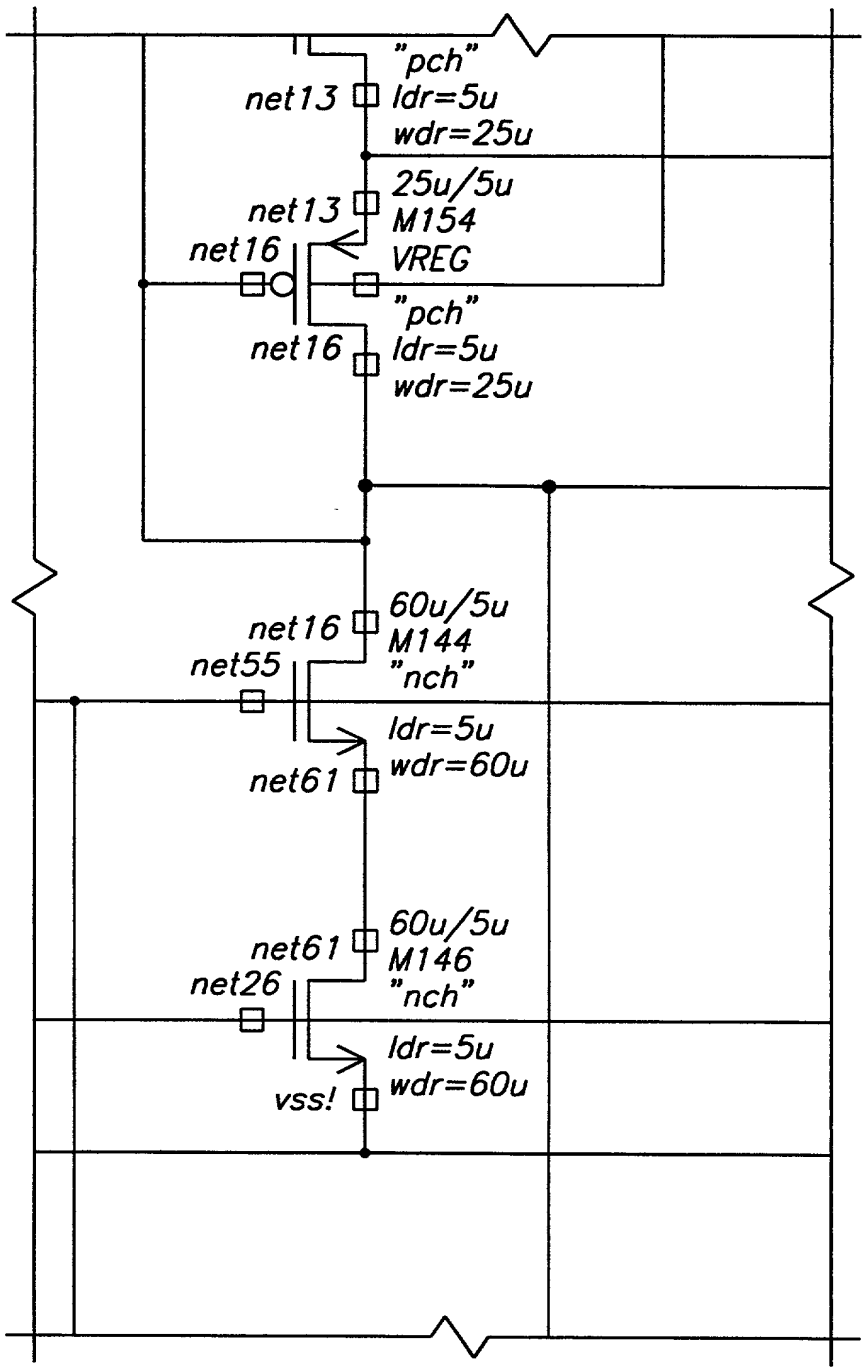


Fig 8.0504018C

05225205 05225205

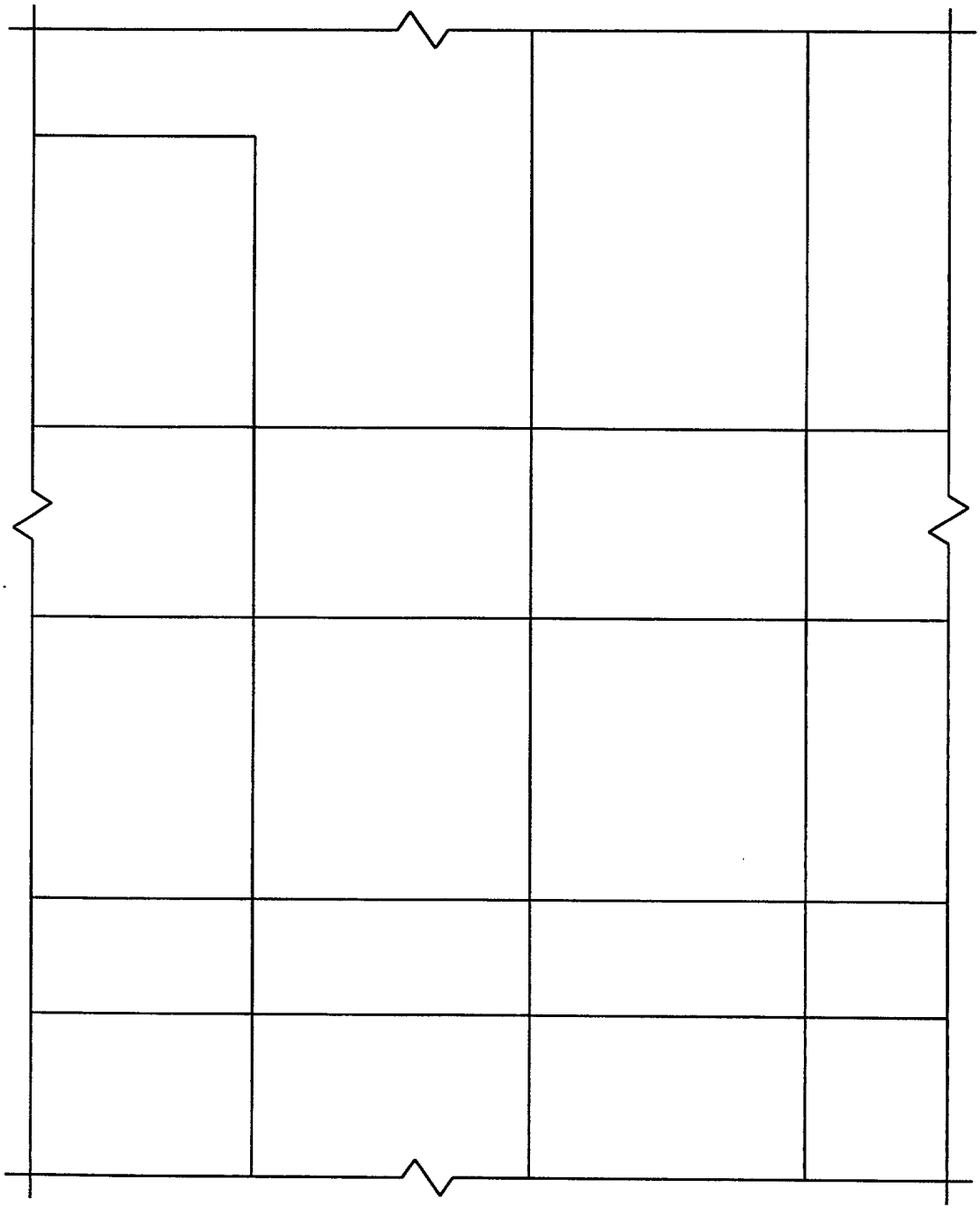


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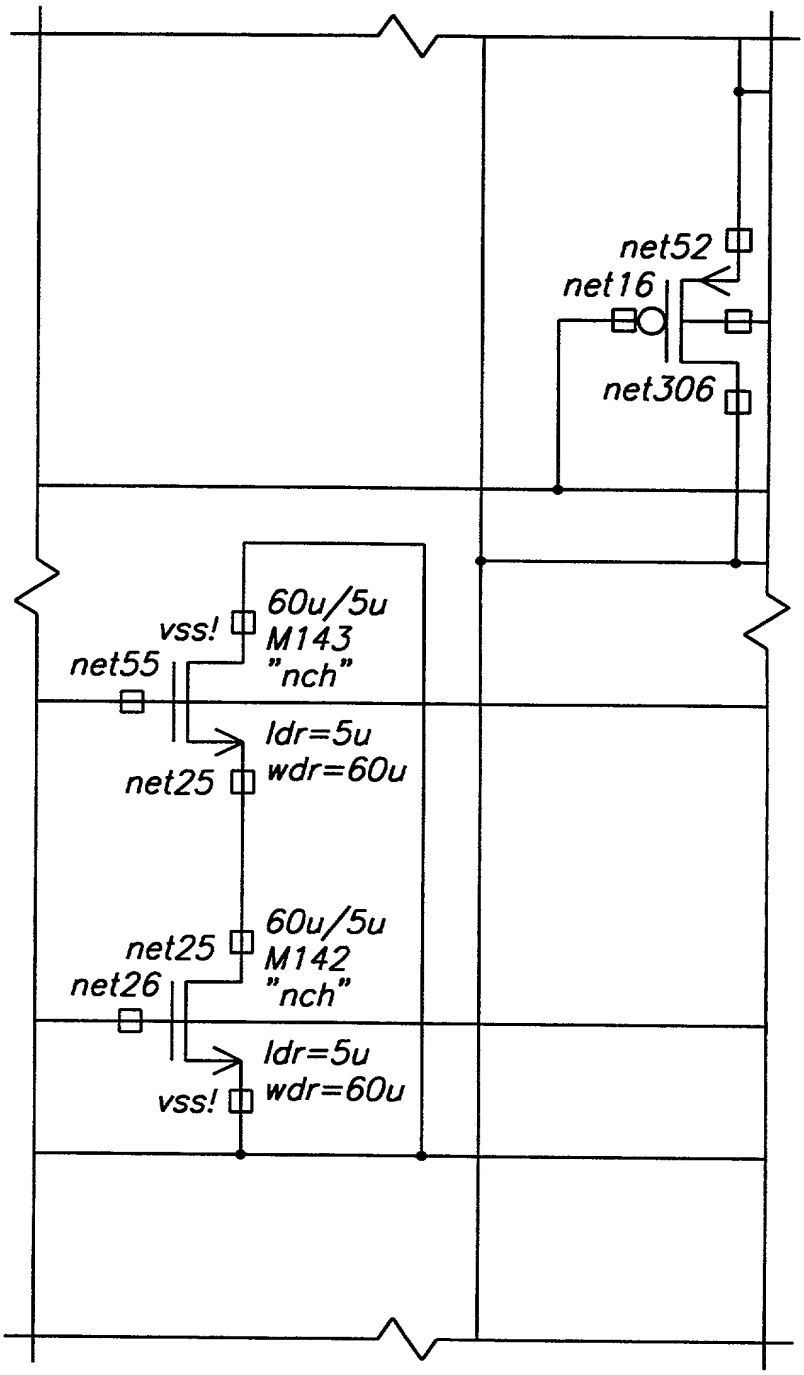


Fig 8,050,401,BE

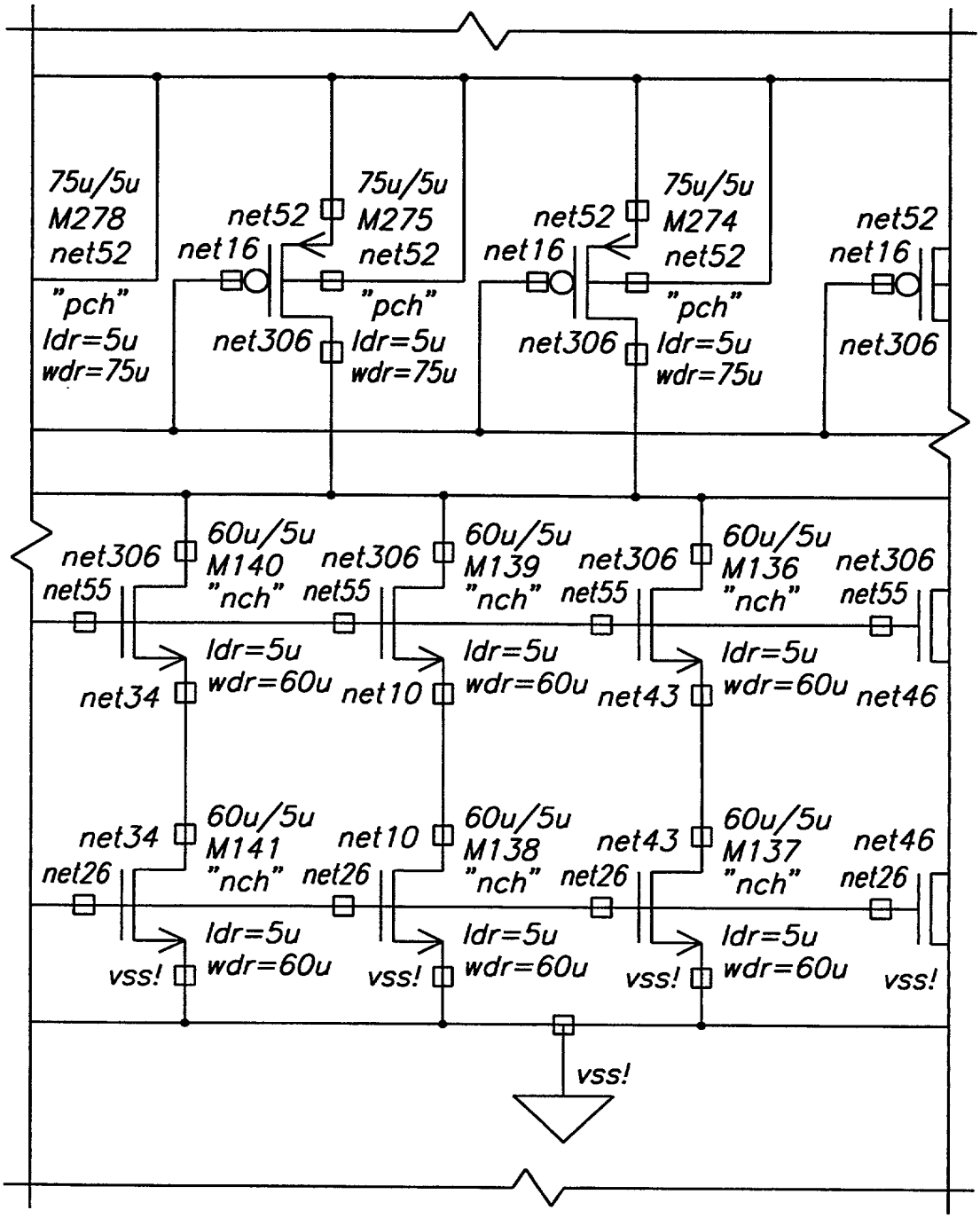


Fig 8.0504018F

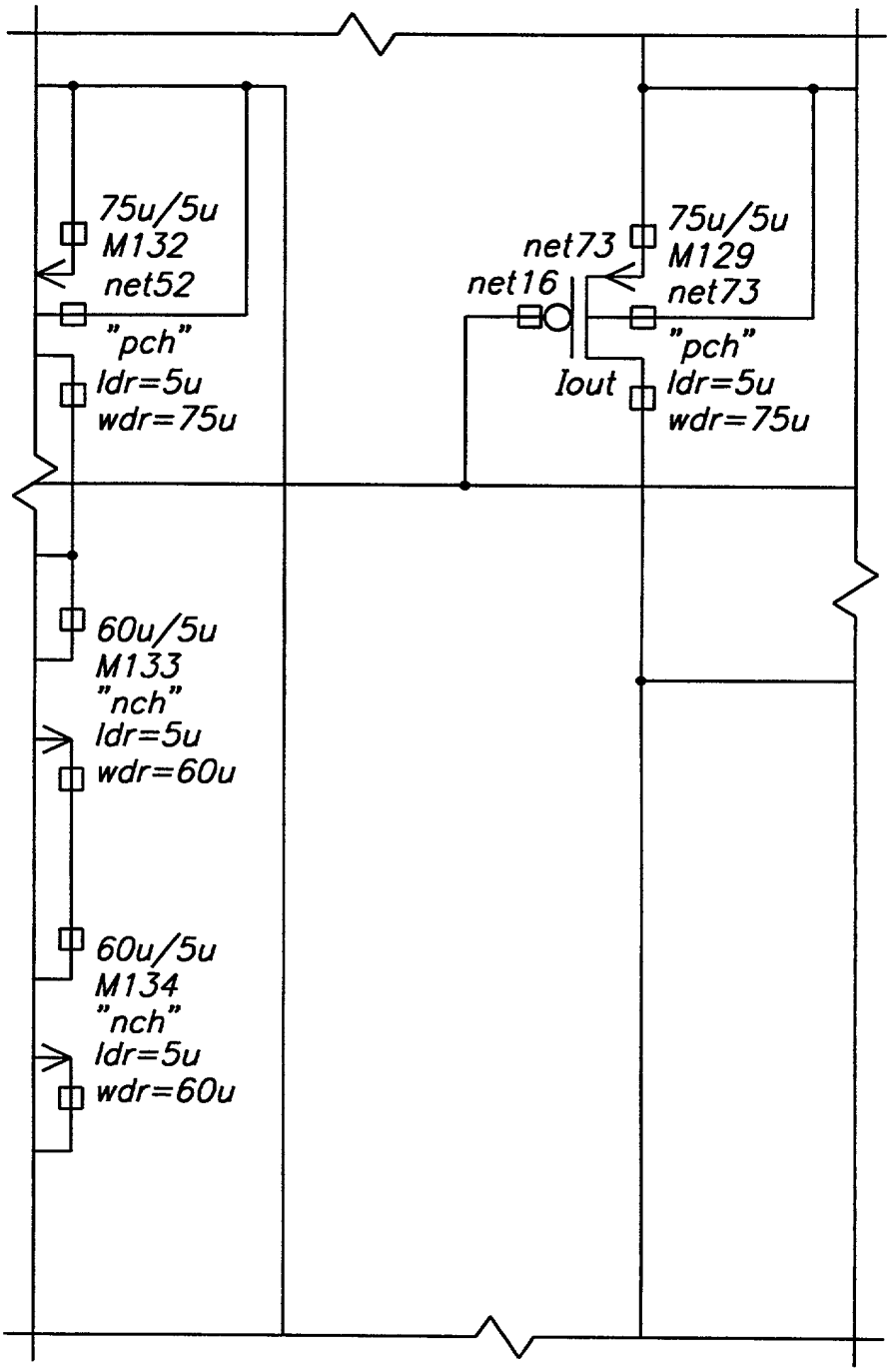
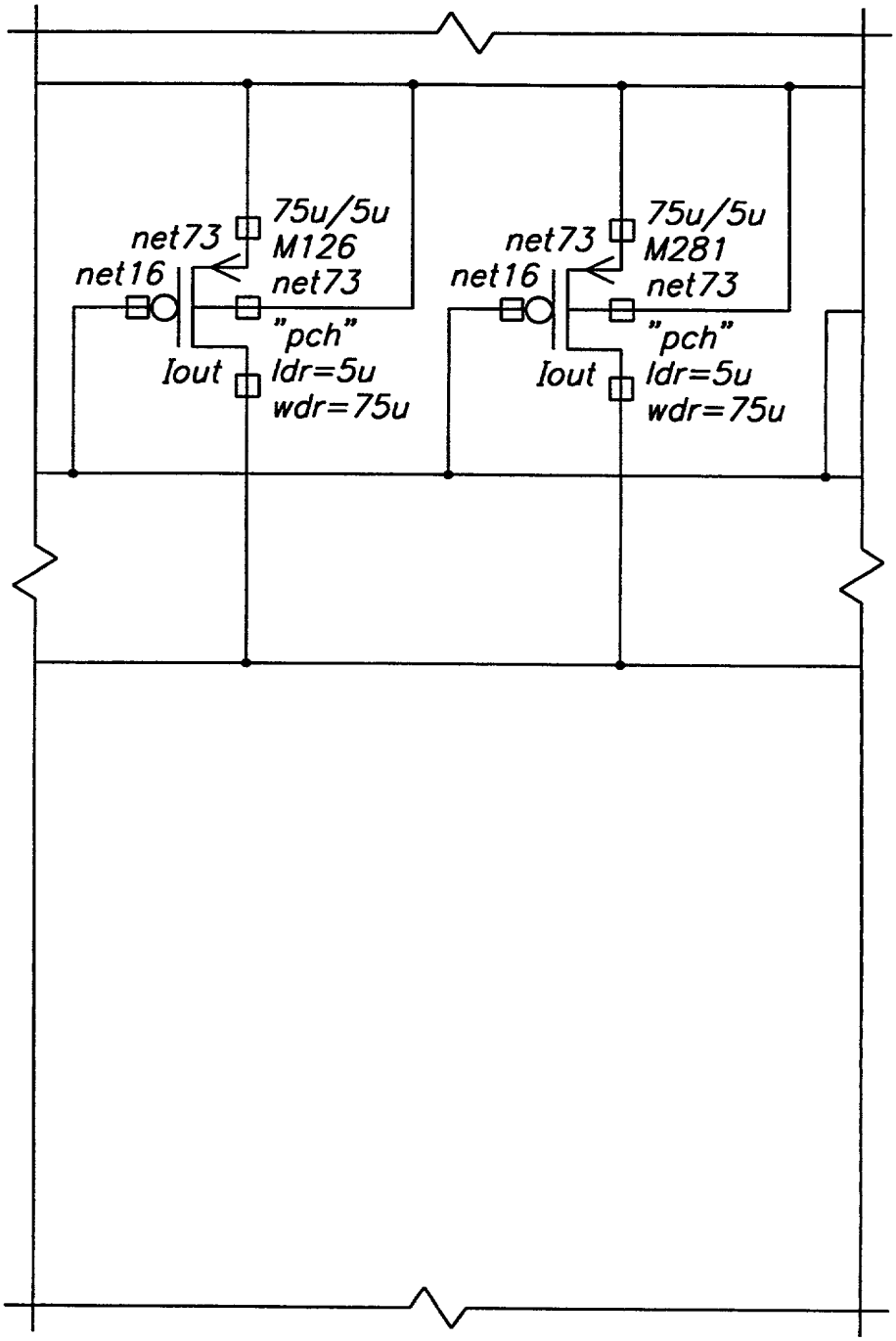


Fig 8.050401B6

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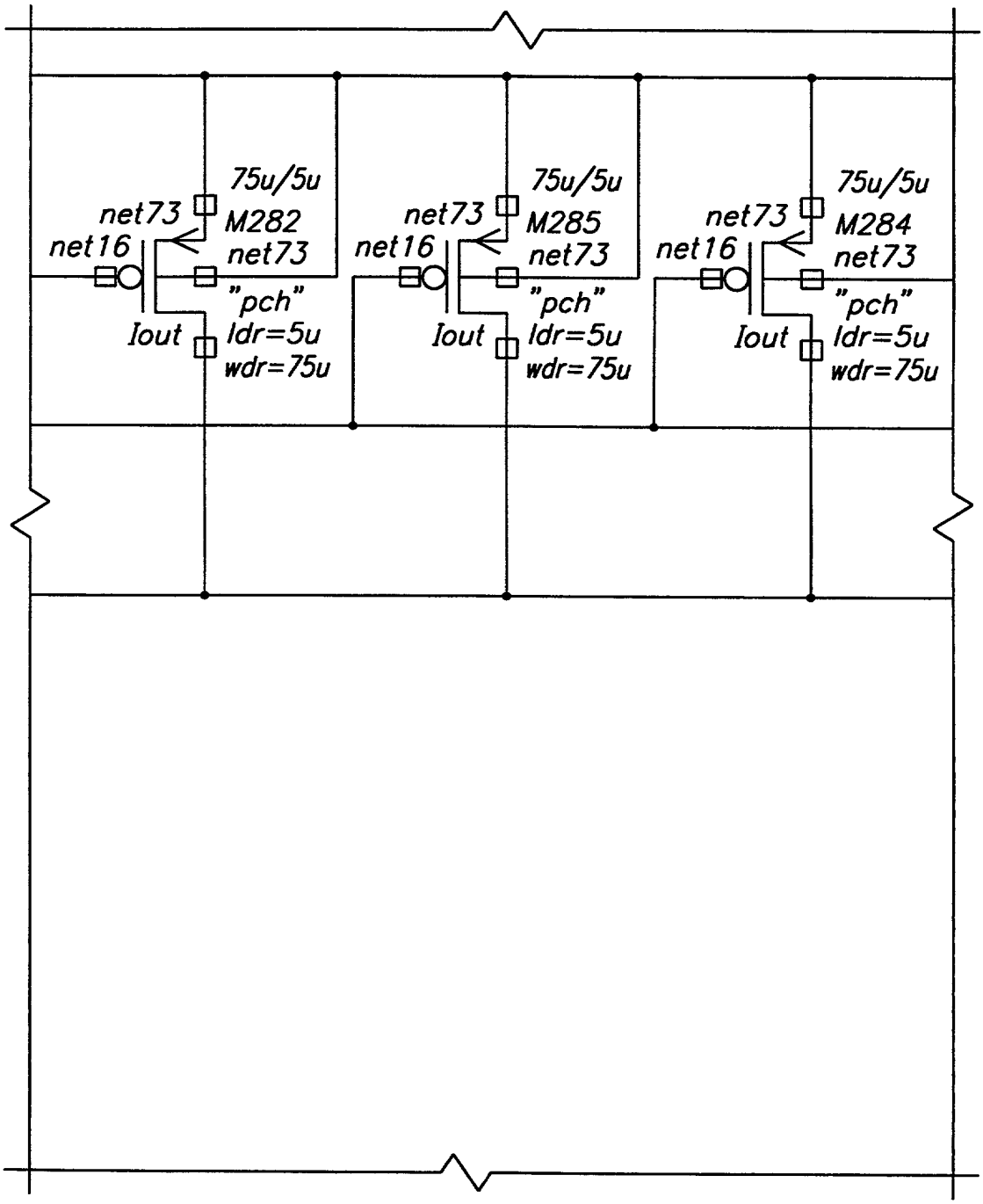


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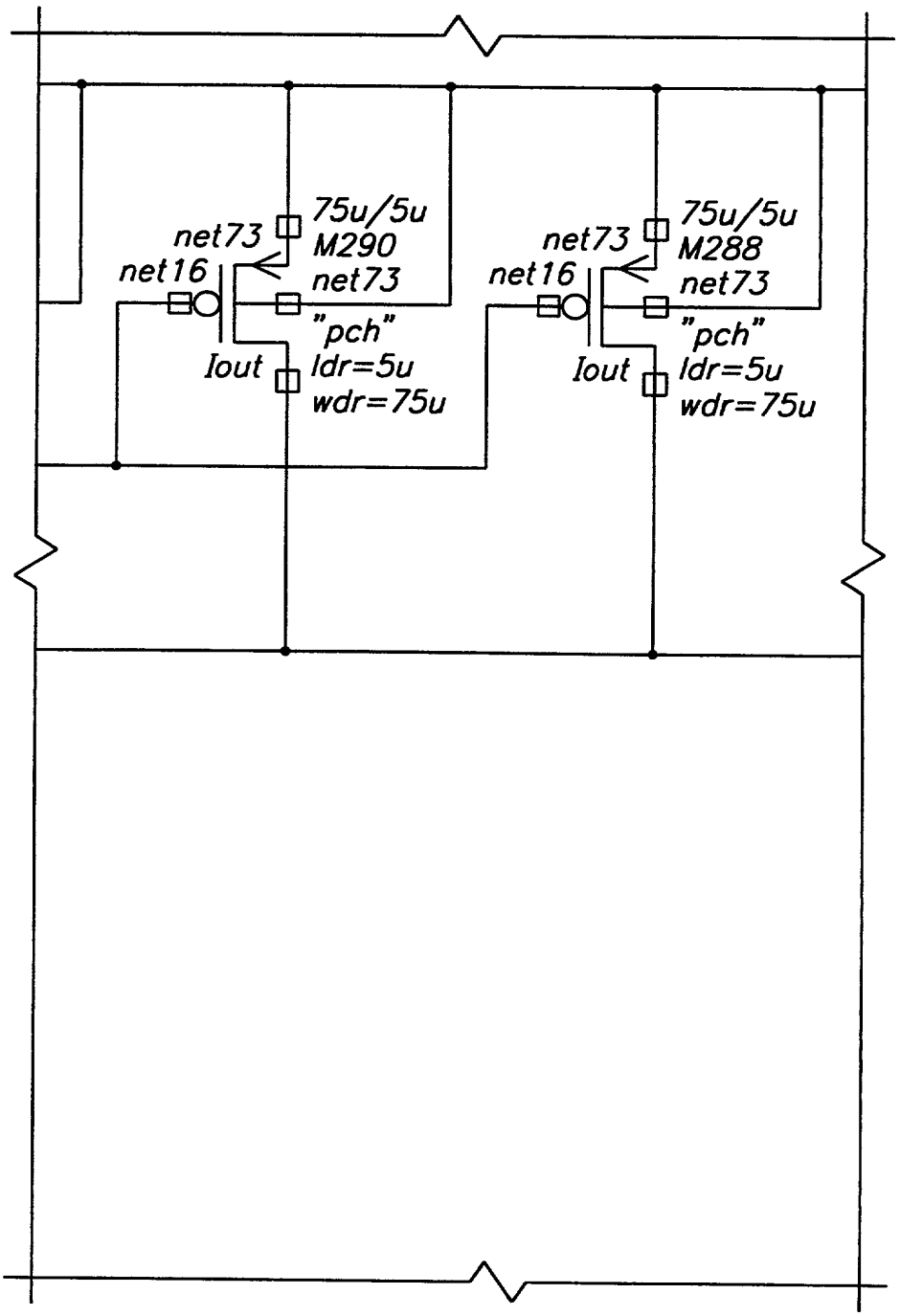


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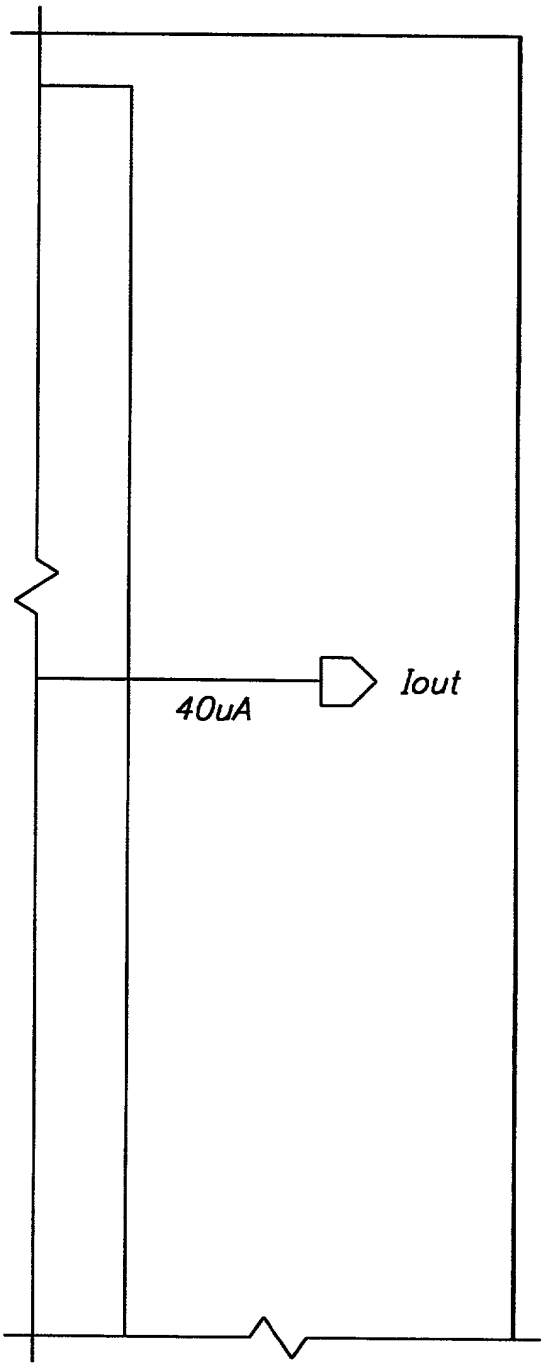


Fig 8.0504.0018K

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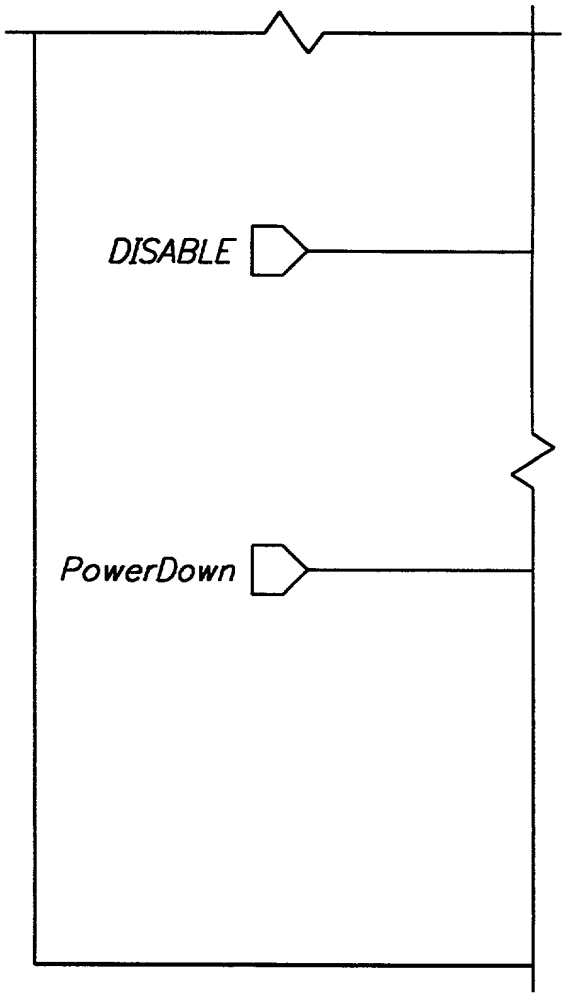


Fig 8.0504.01CA

0582605 05/11/04

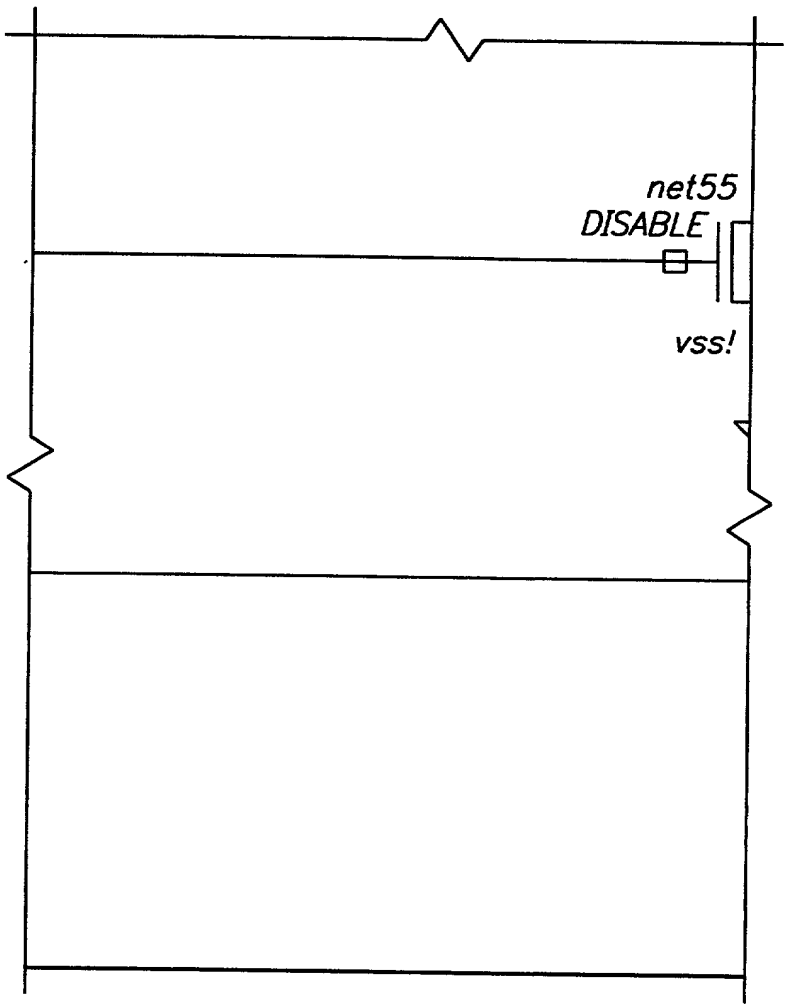


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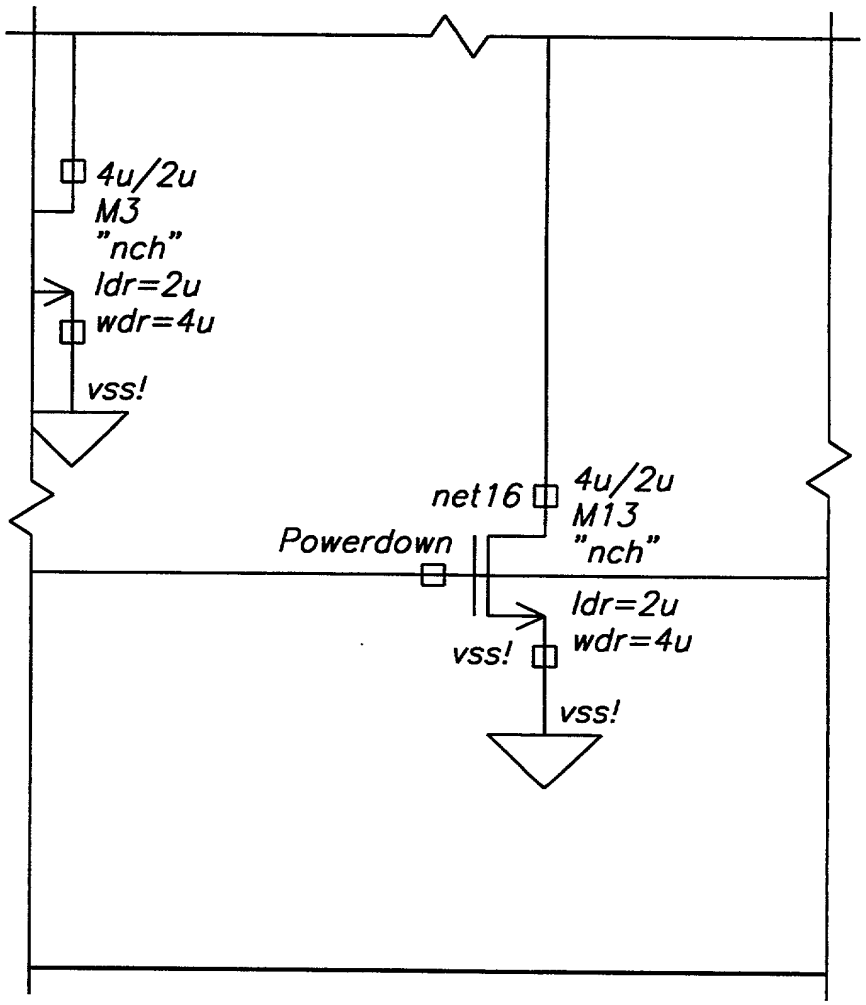


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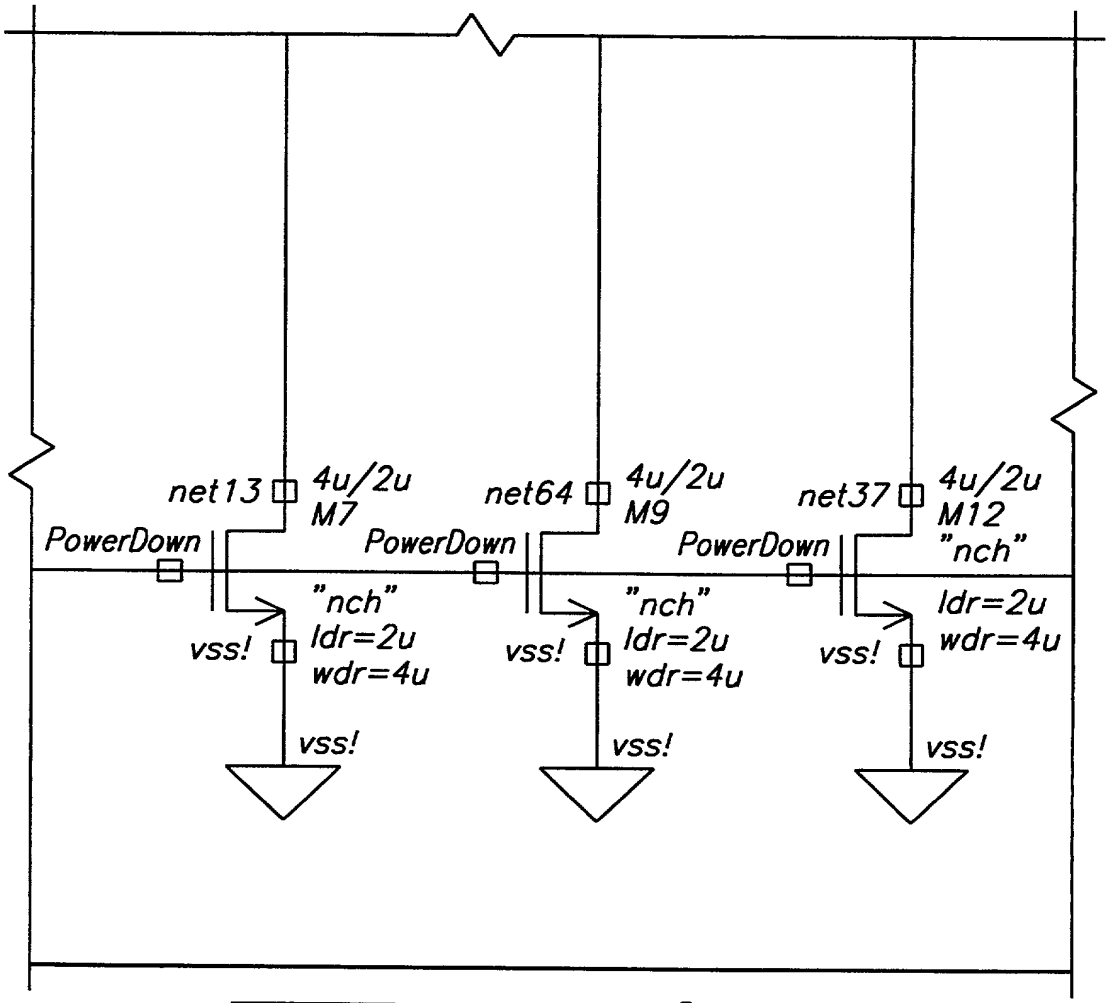


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US6822504B2

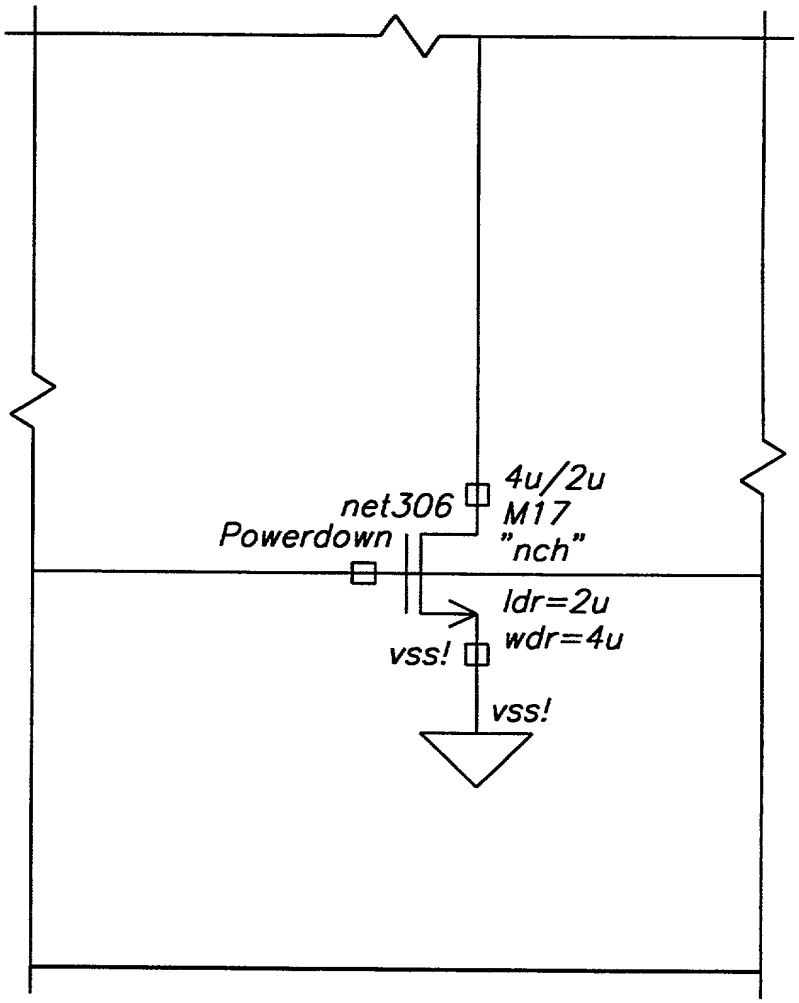


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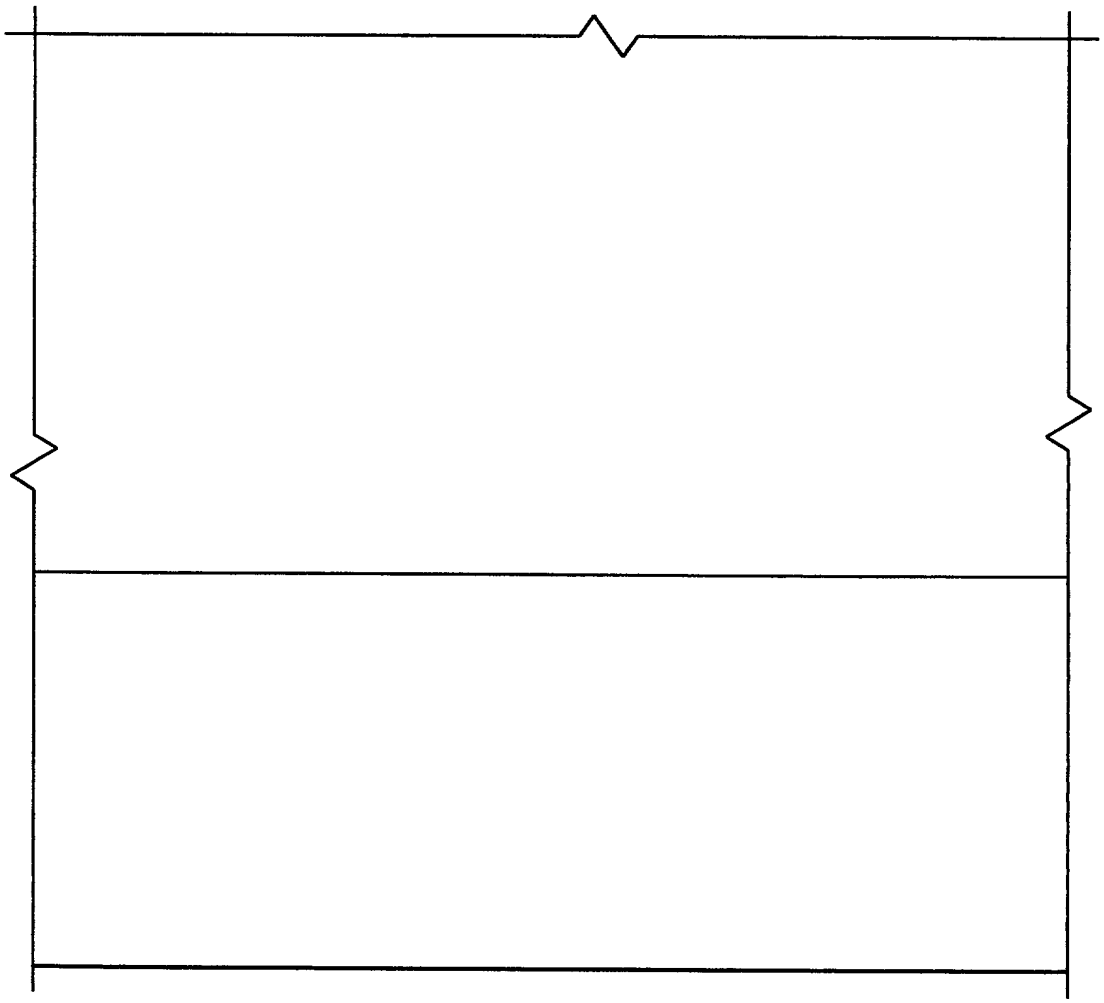


Fig 8.0504011CF

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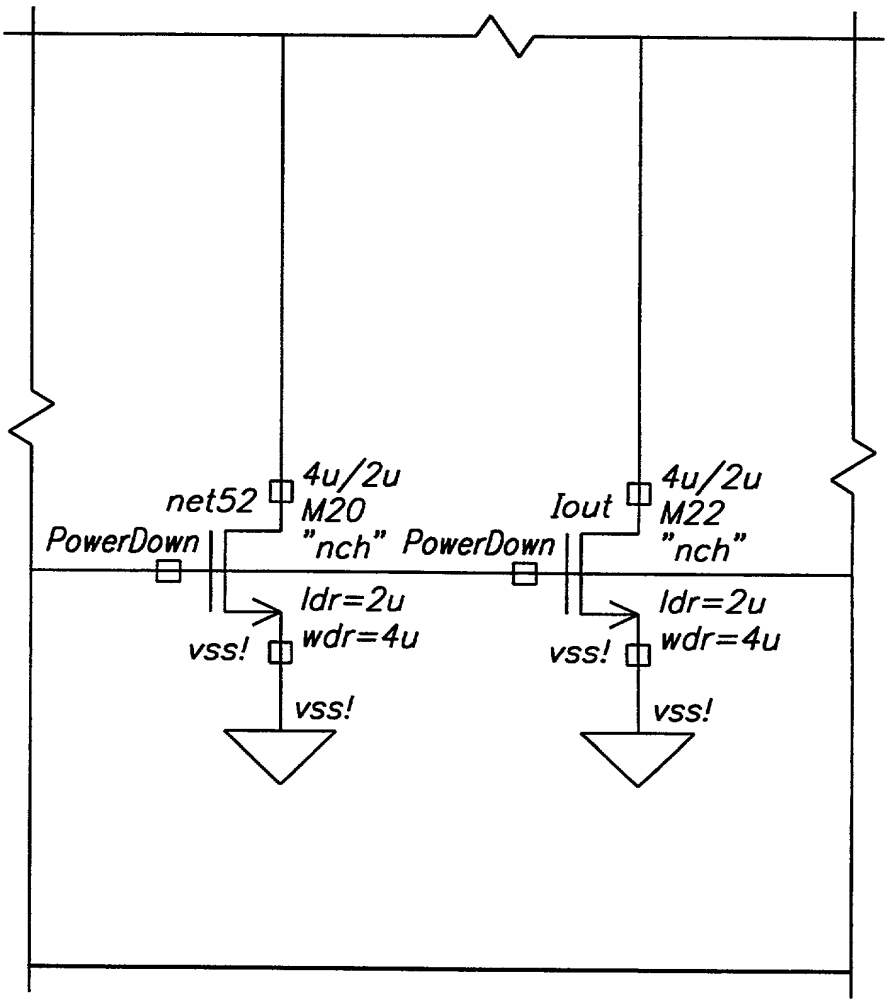


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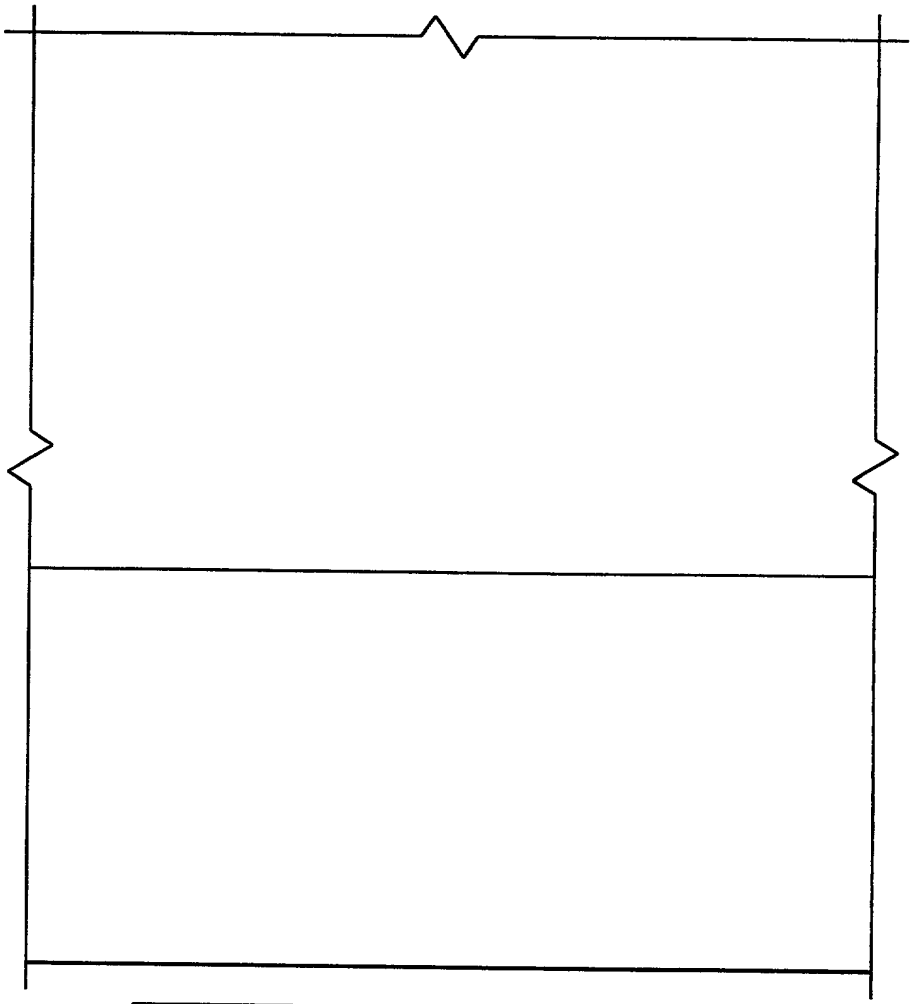


Fig 8.0504011CH

Patent Publication Number 0504011

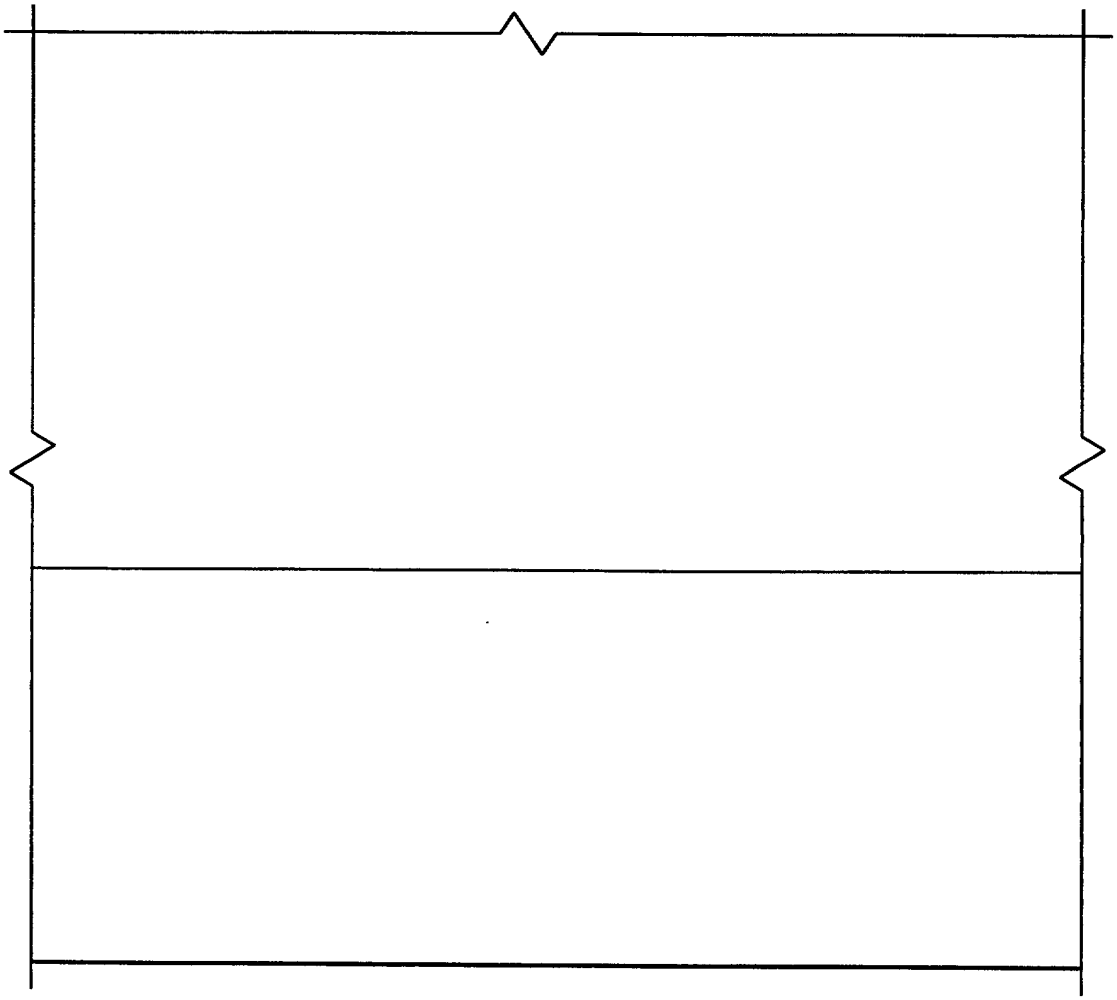


Fig 8.0504011C II

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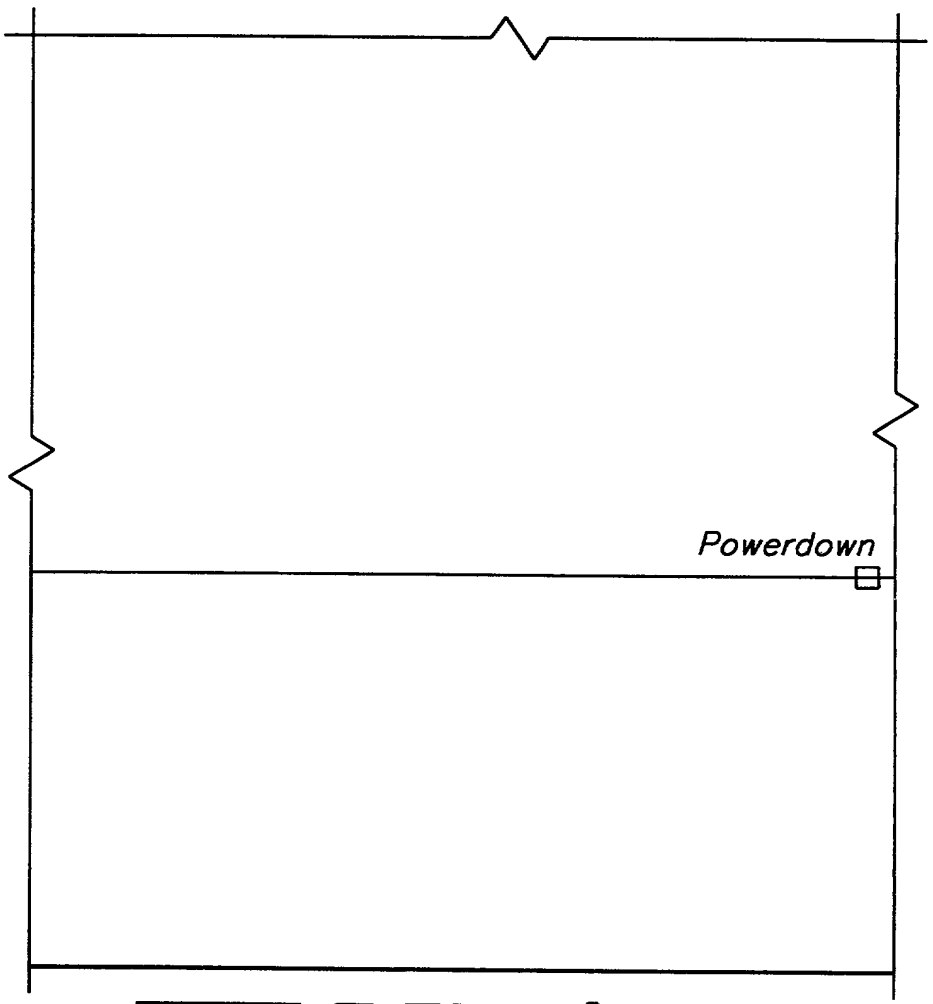


Fig 8.005 Control Panel

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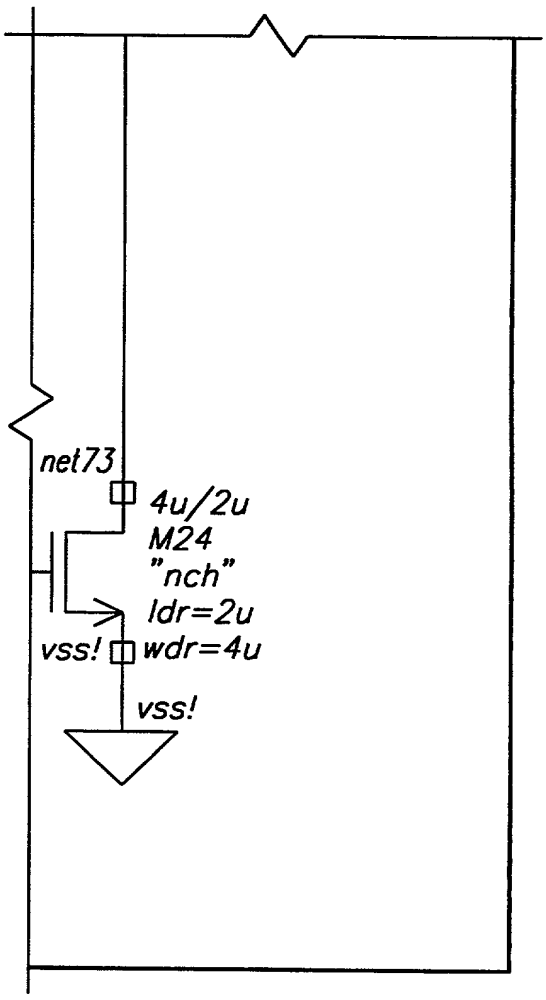


Fig 8.0504mic

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Fig 8.050402

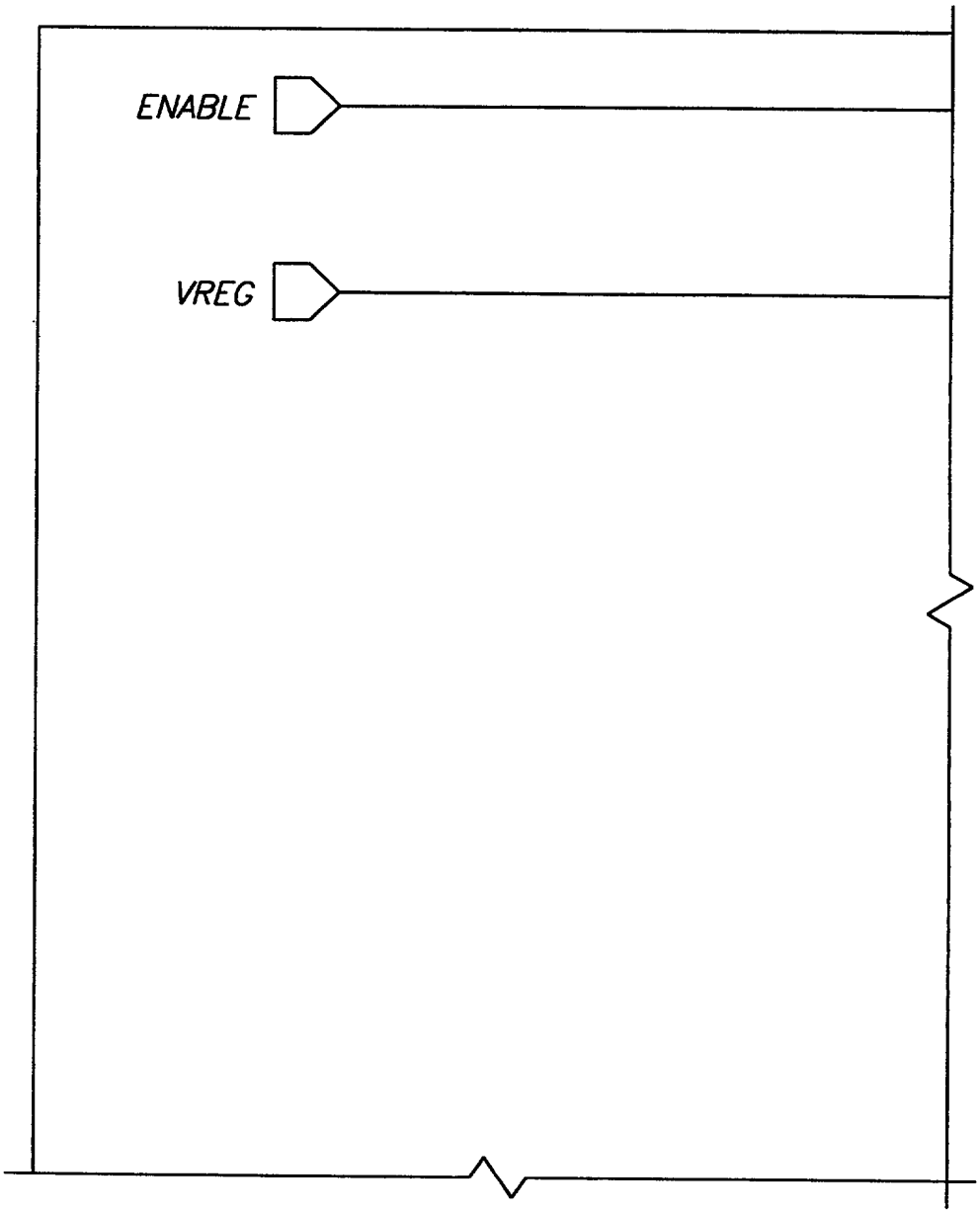


Fig 8.0504-002AA

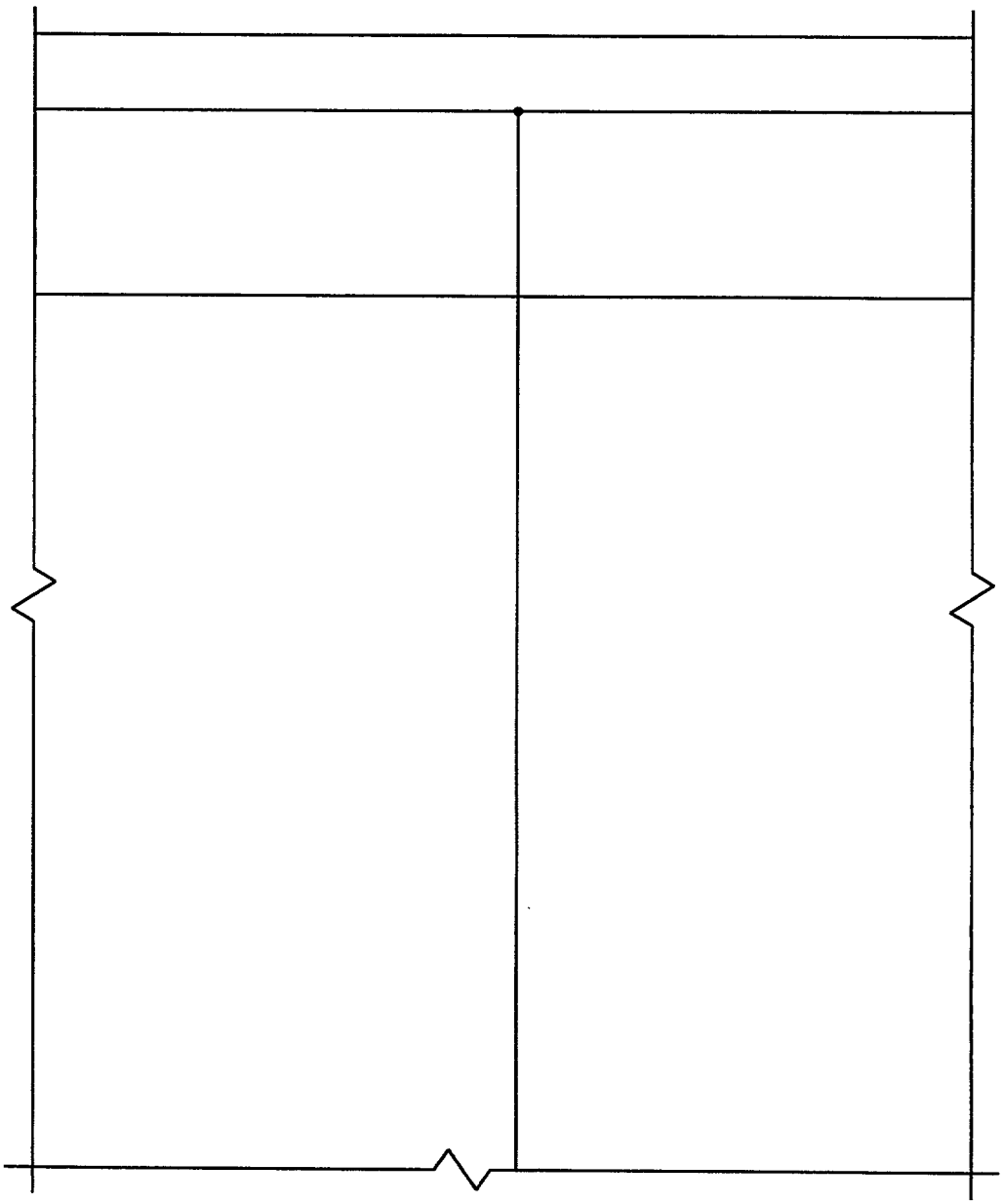


Fig 8.0504028B

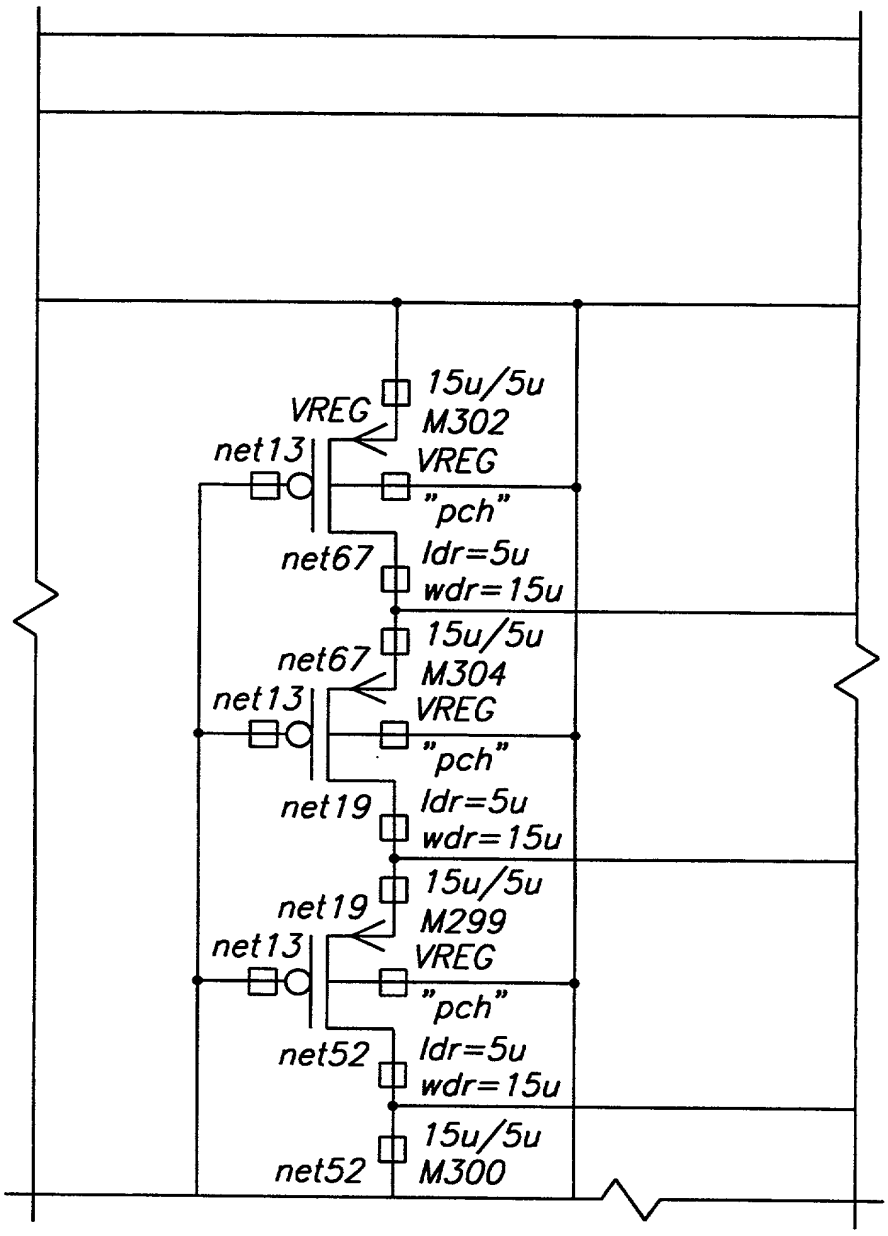
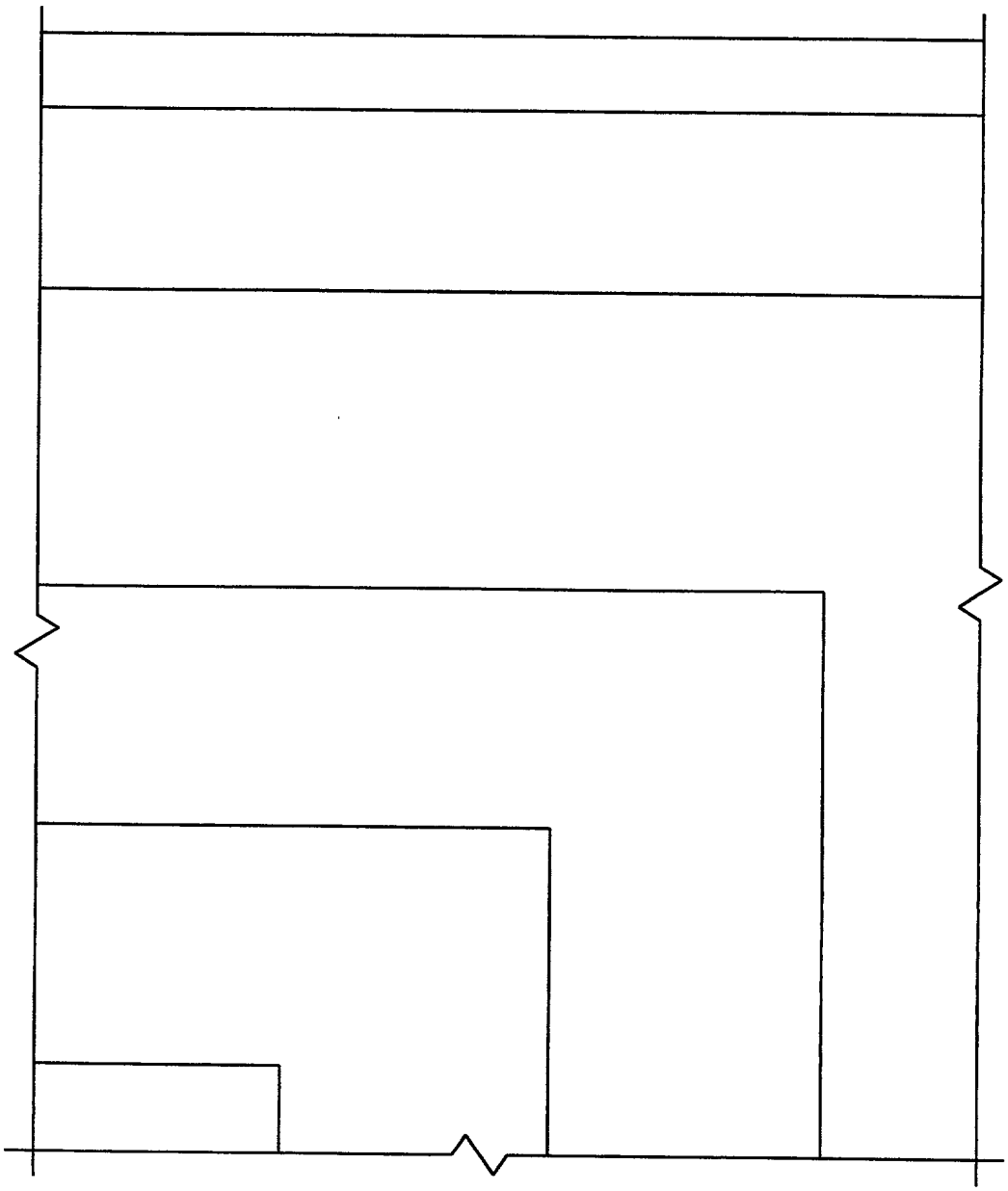


Fig 8.0504020AC



Ex 8.0504020AD

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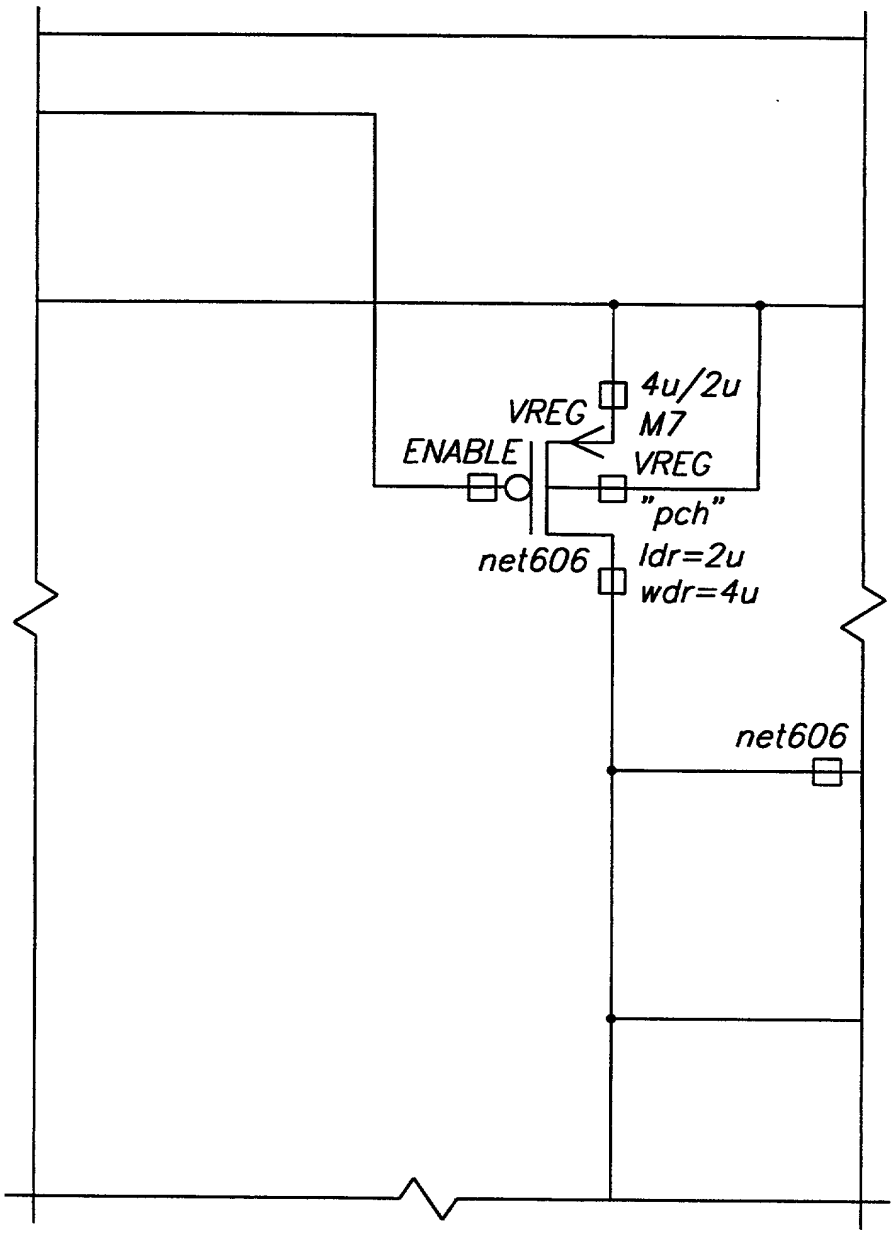


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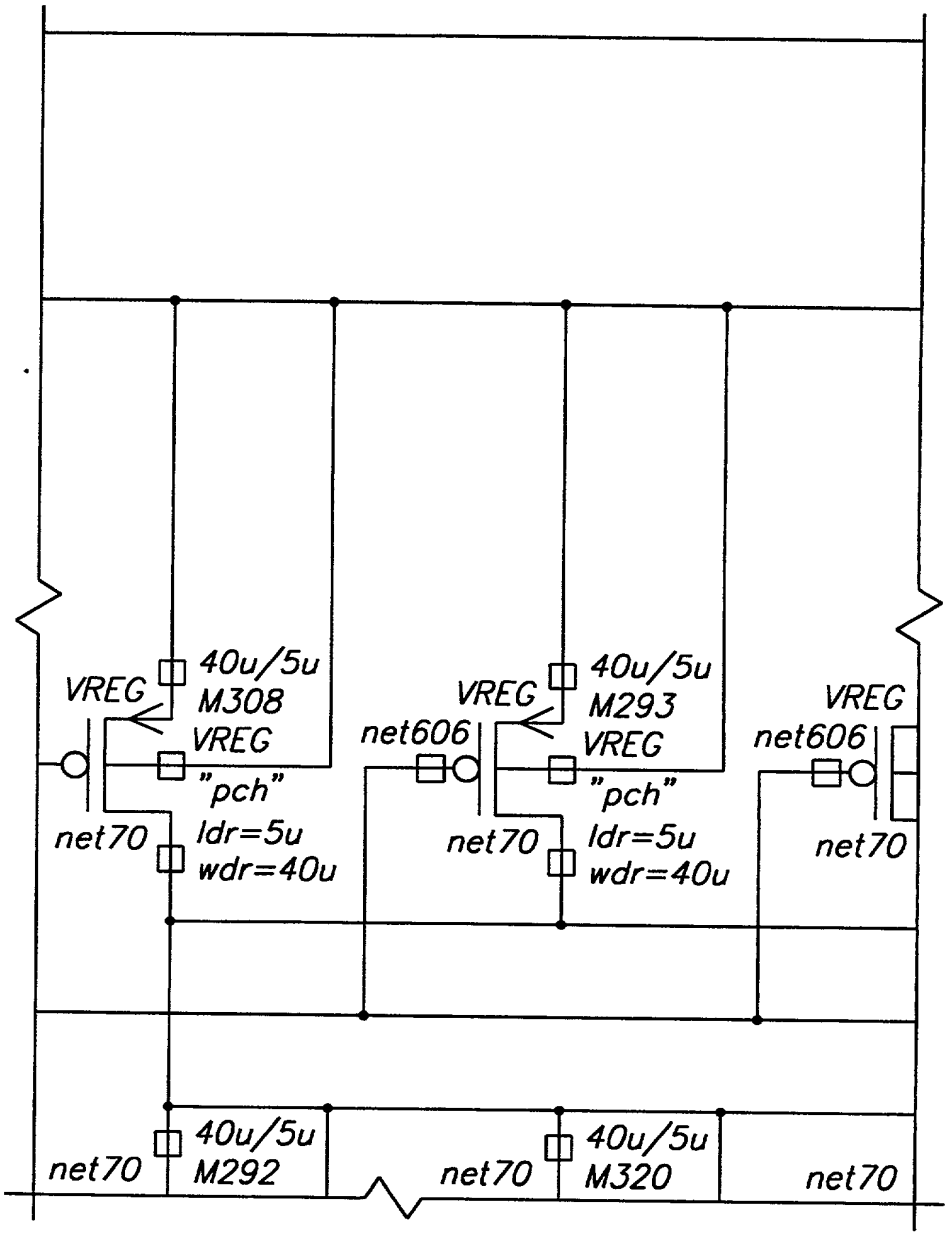


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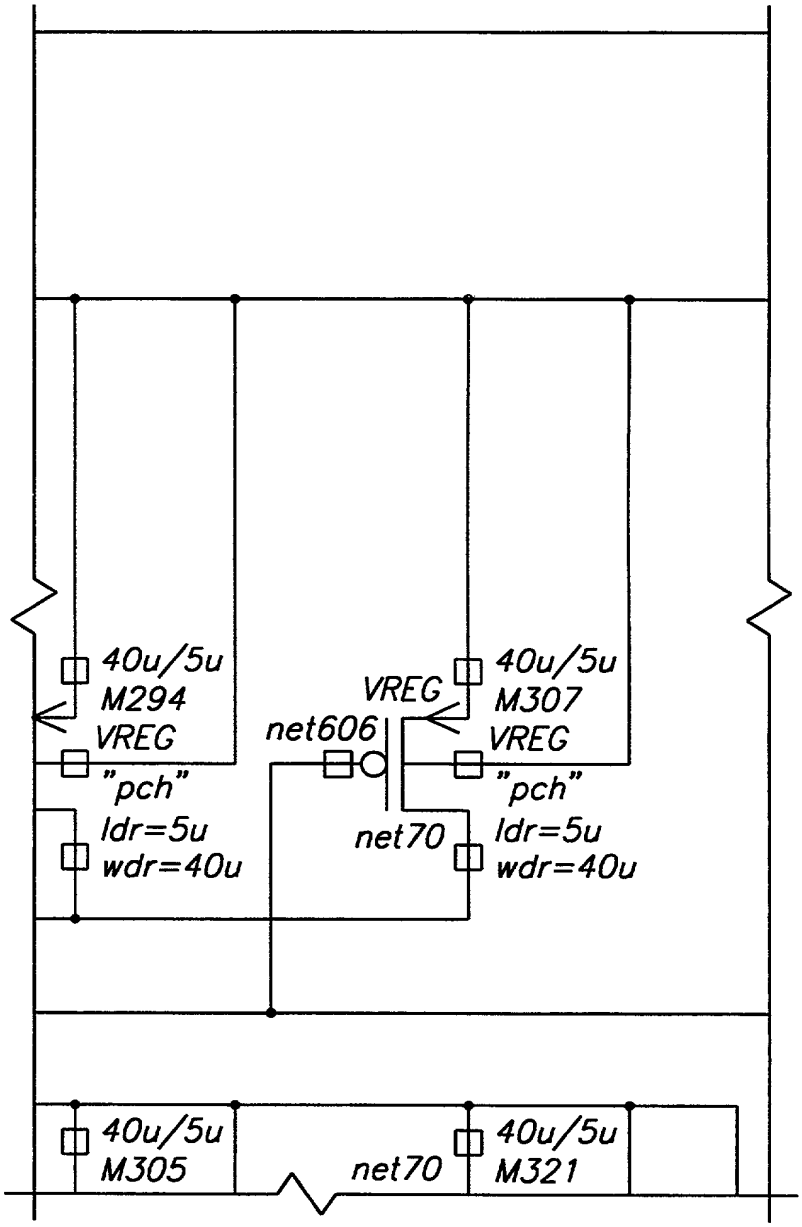


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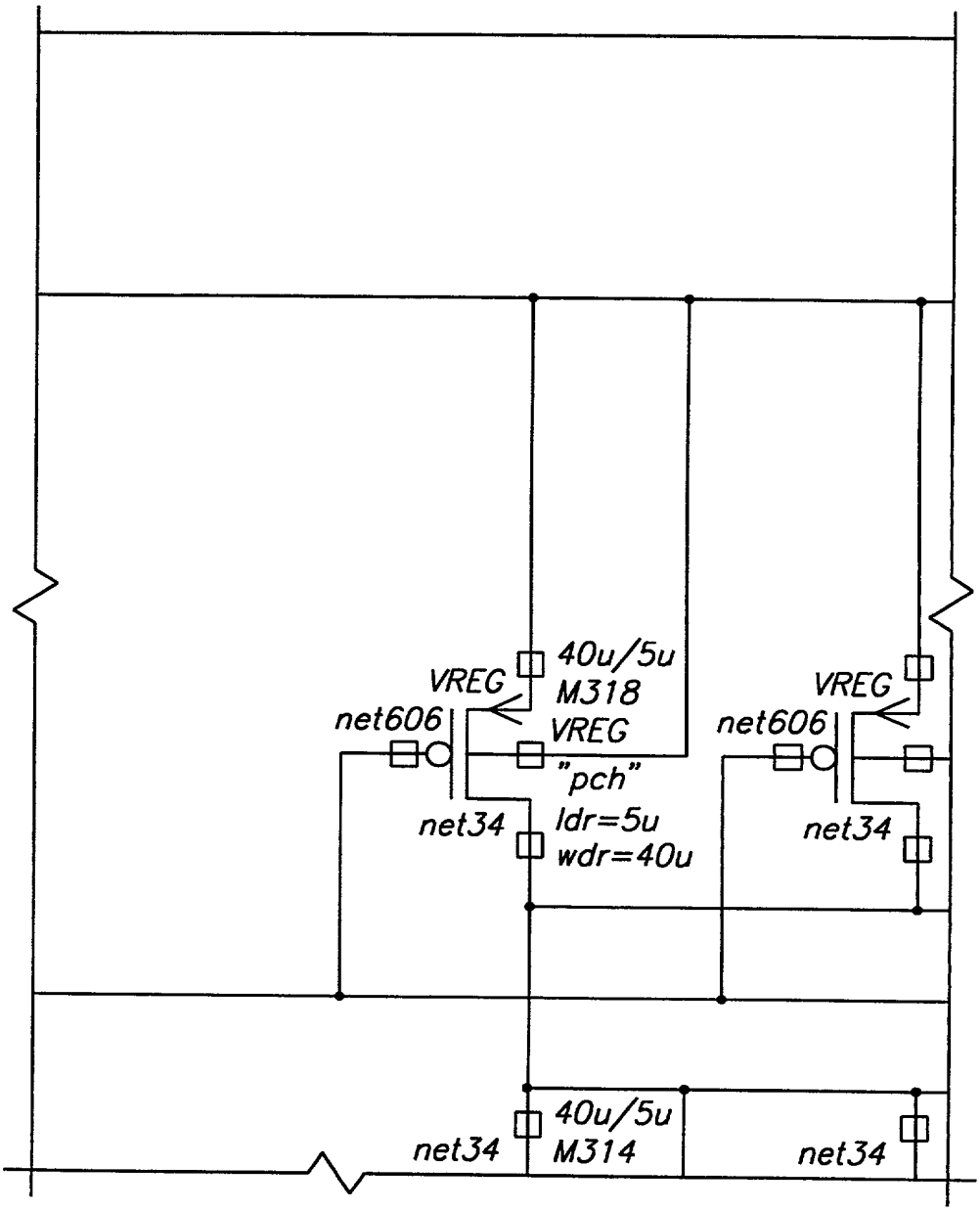


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US6252465 - 05-26-2001

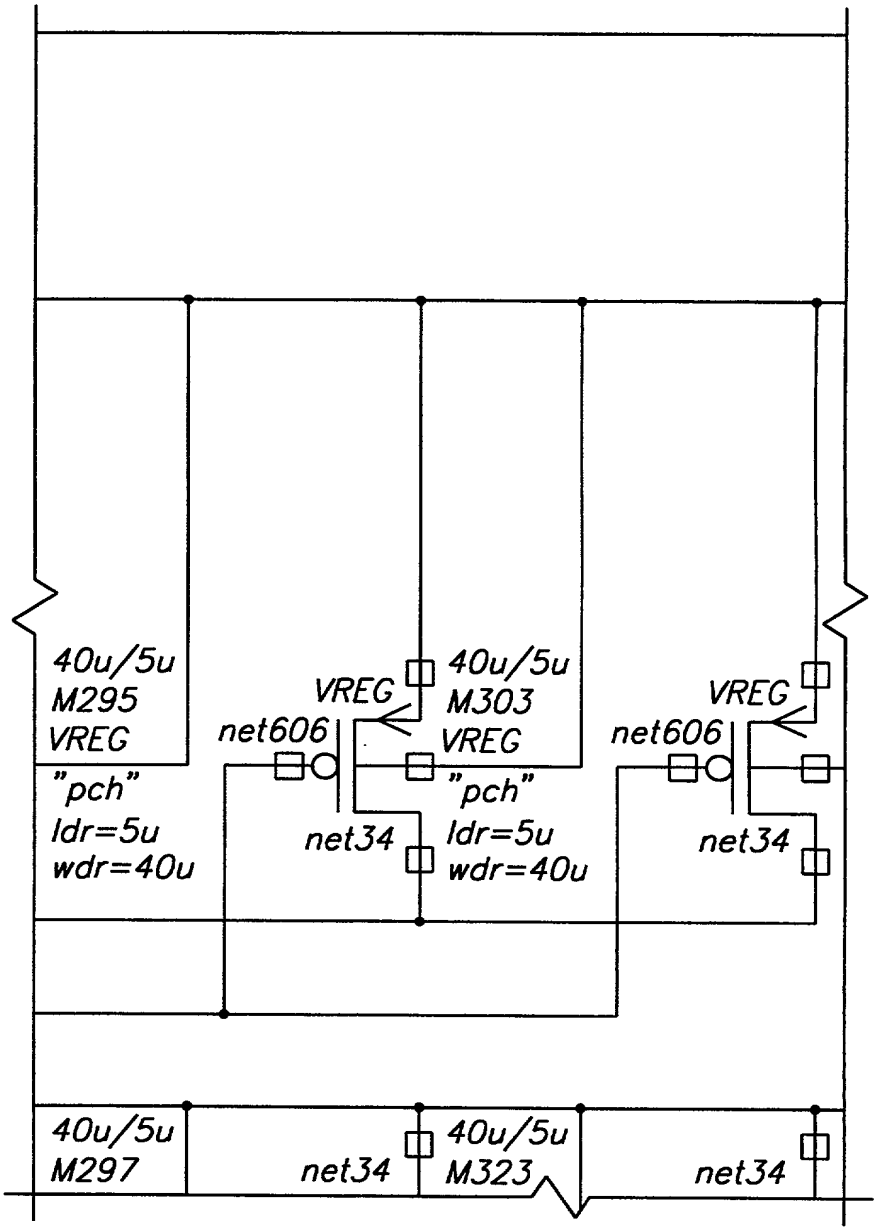


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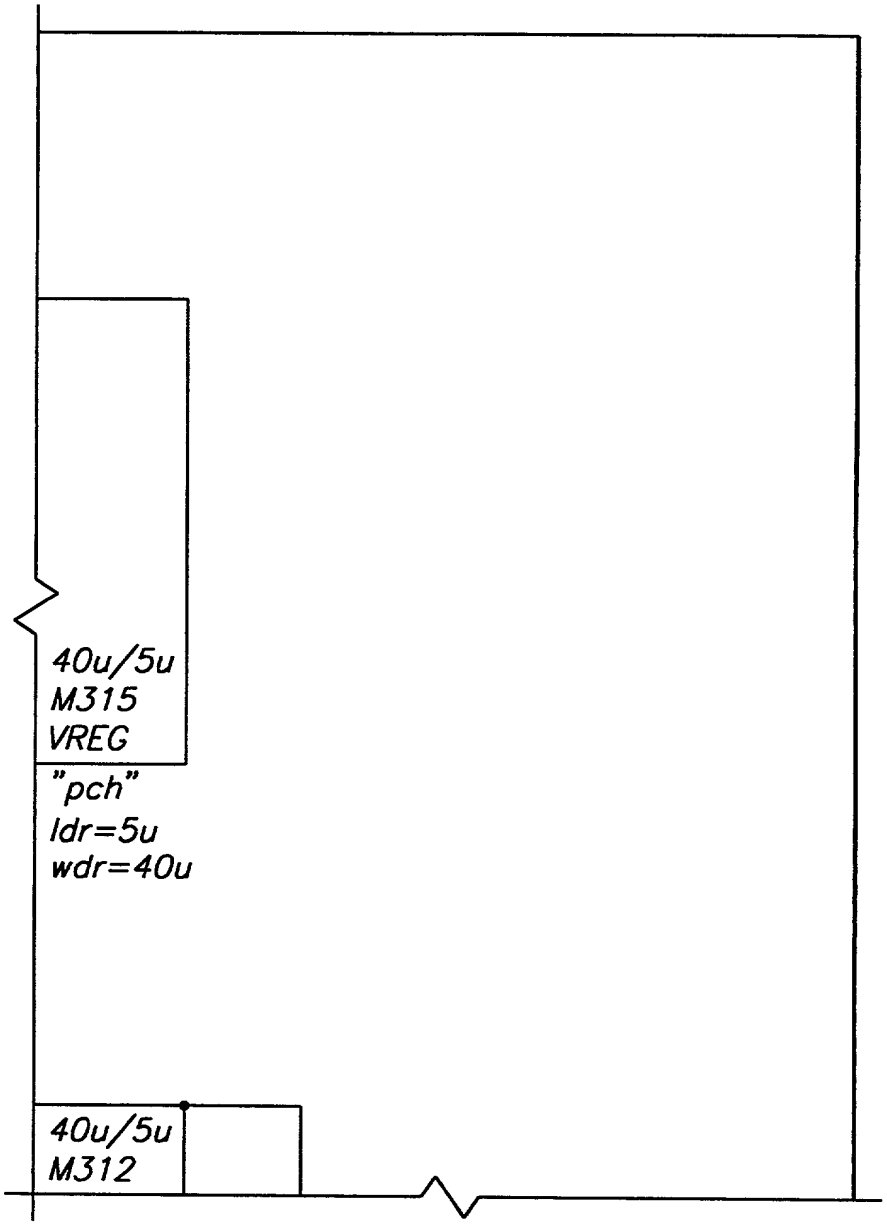


Fig 8.050402A1

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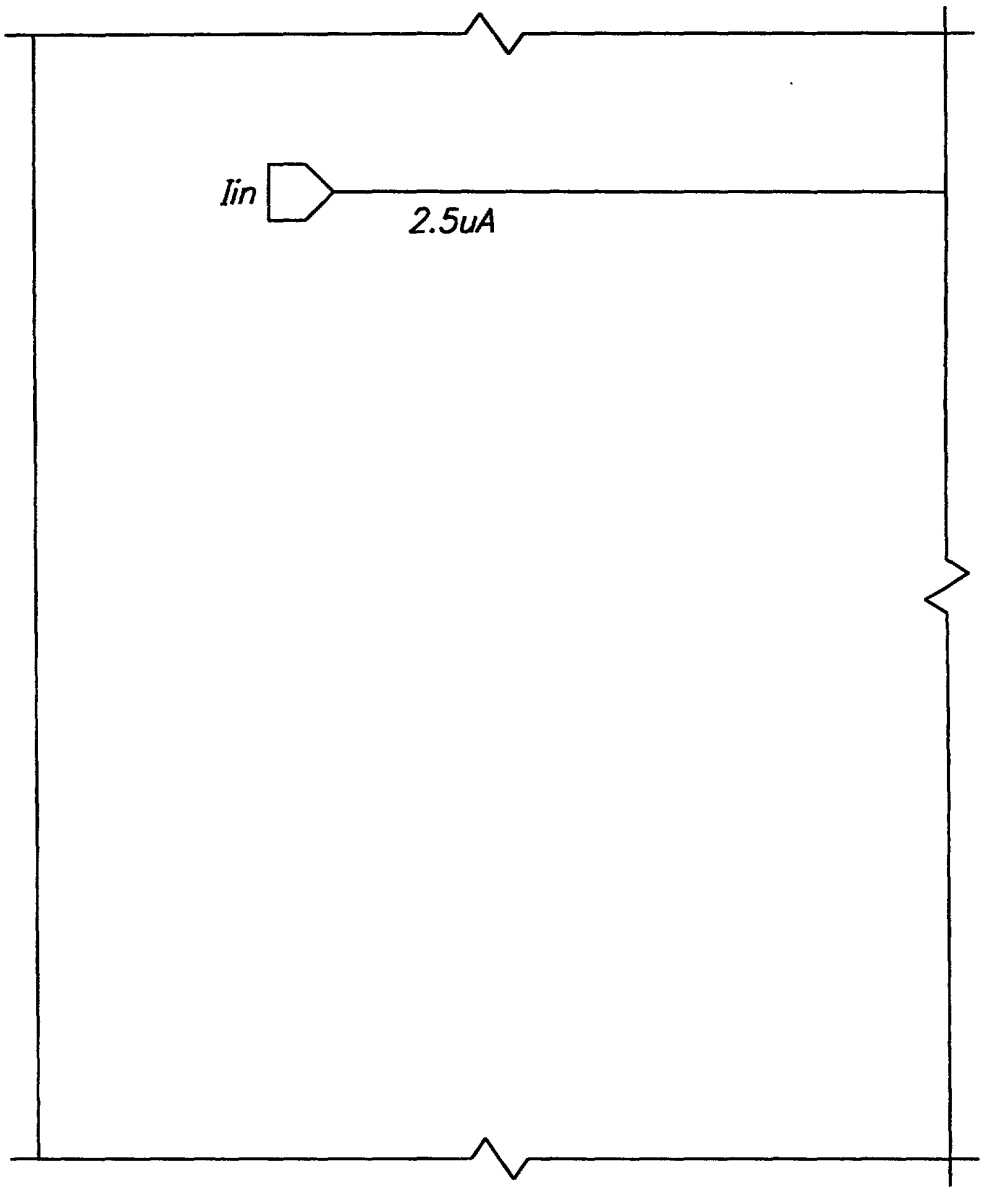


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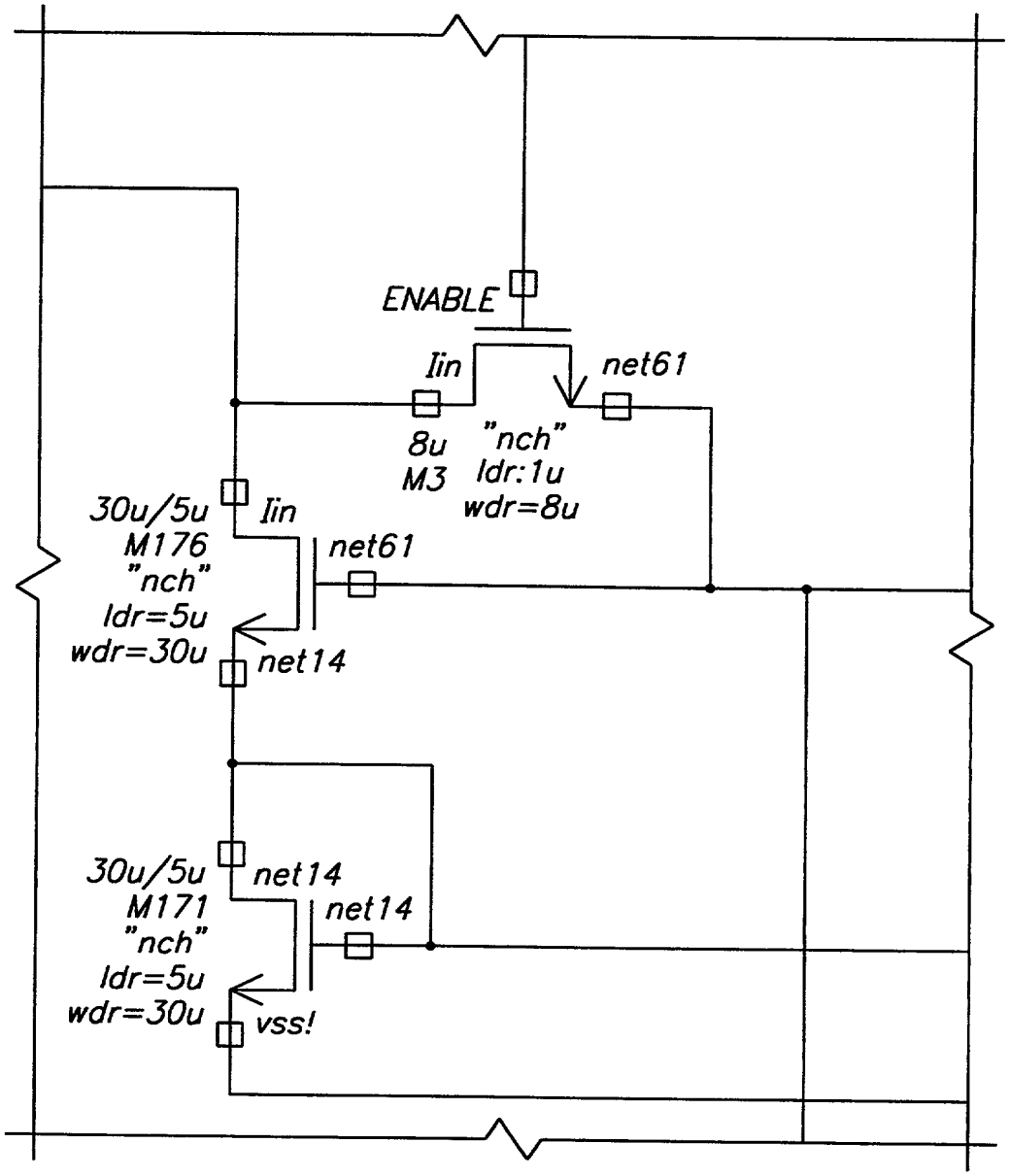


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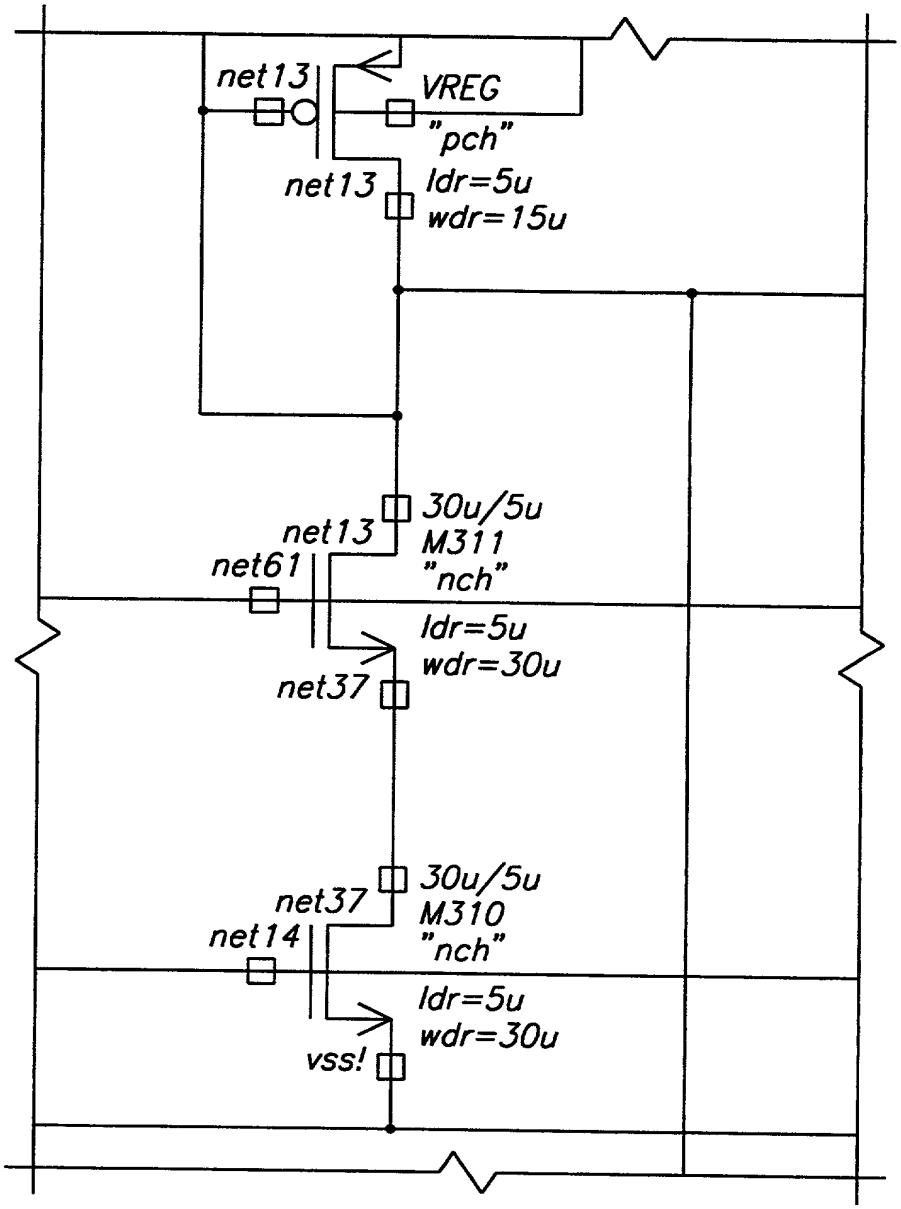
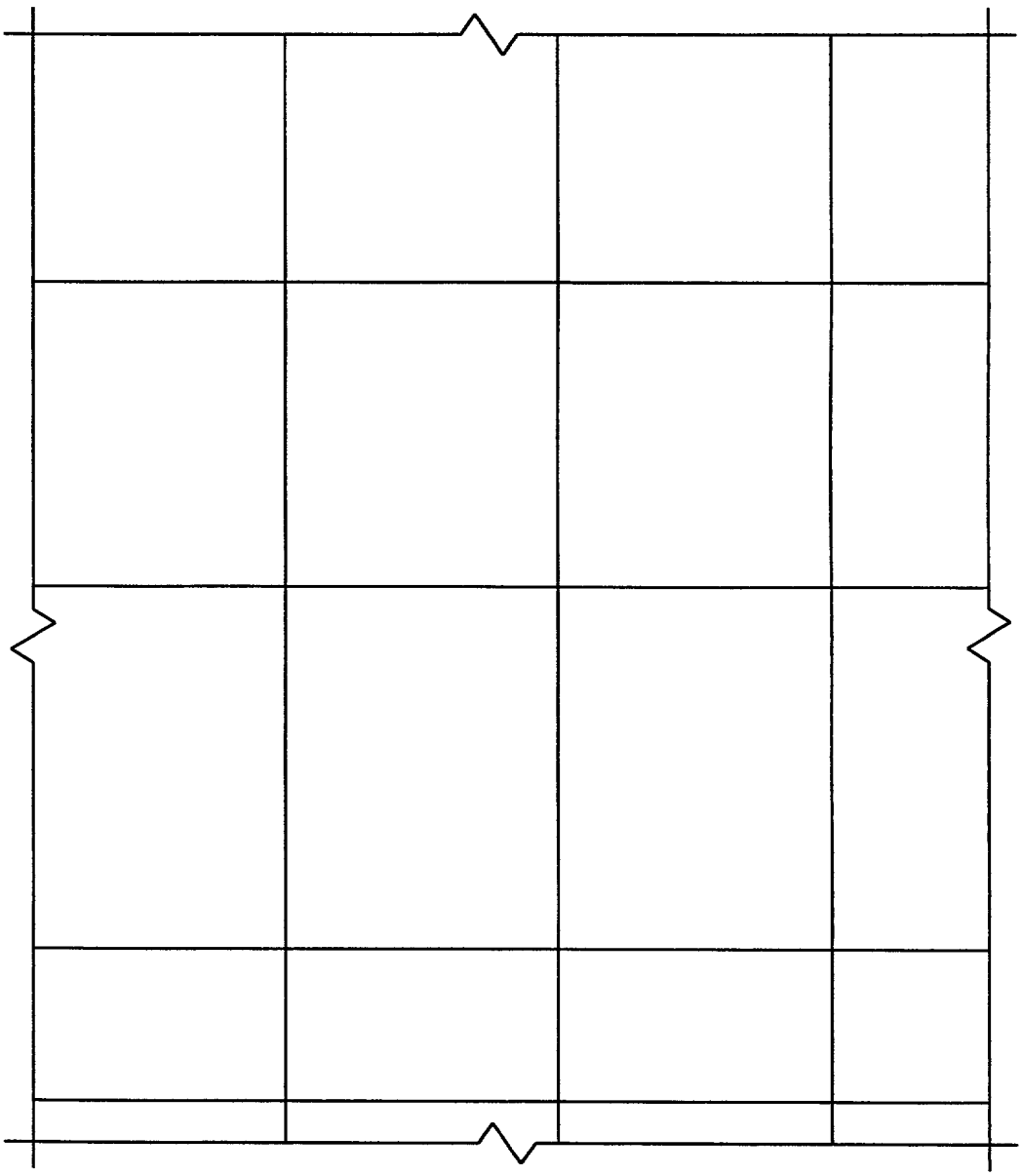


Fig 8.050402BC



Ig 8.050402BD

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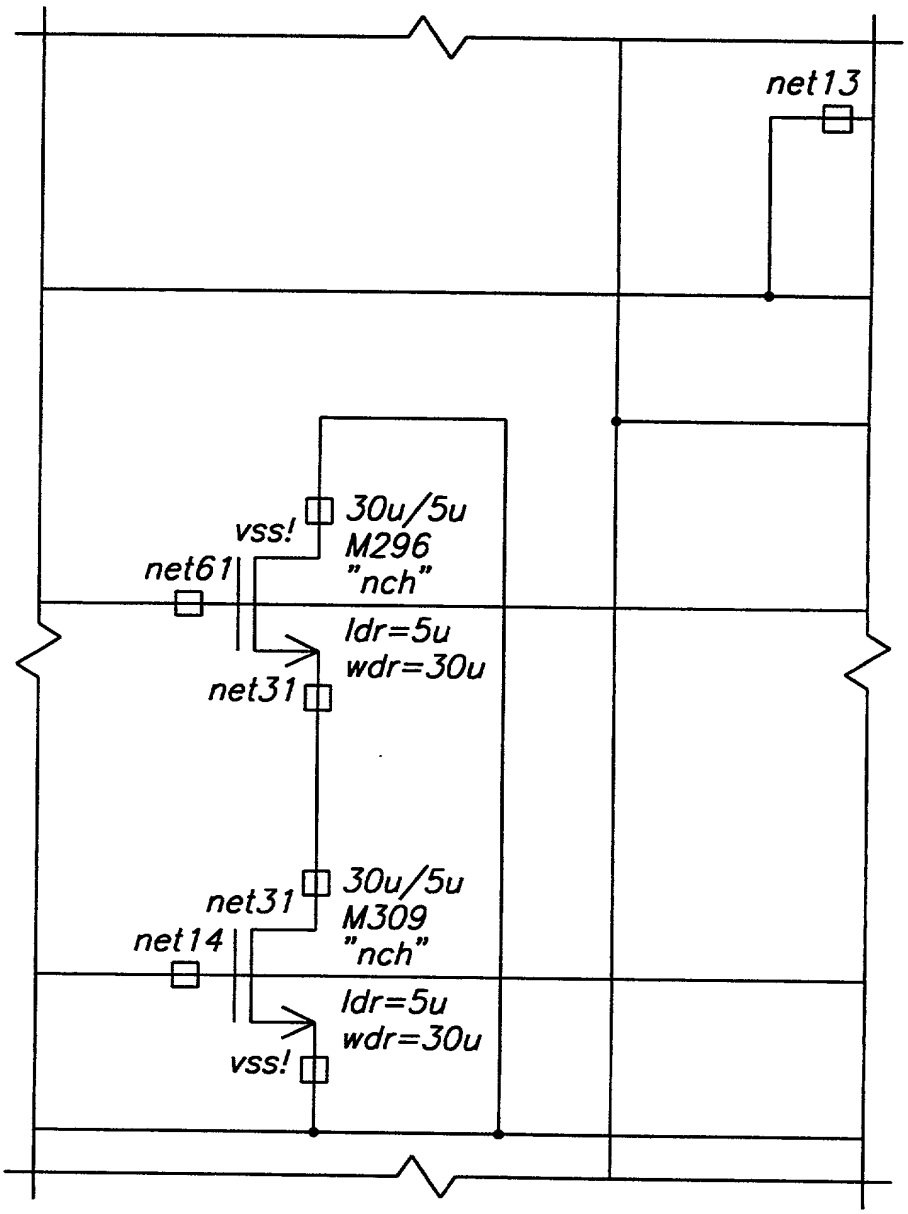

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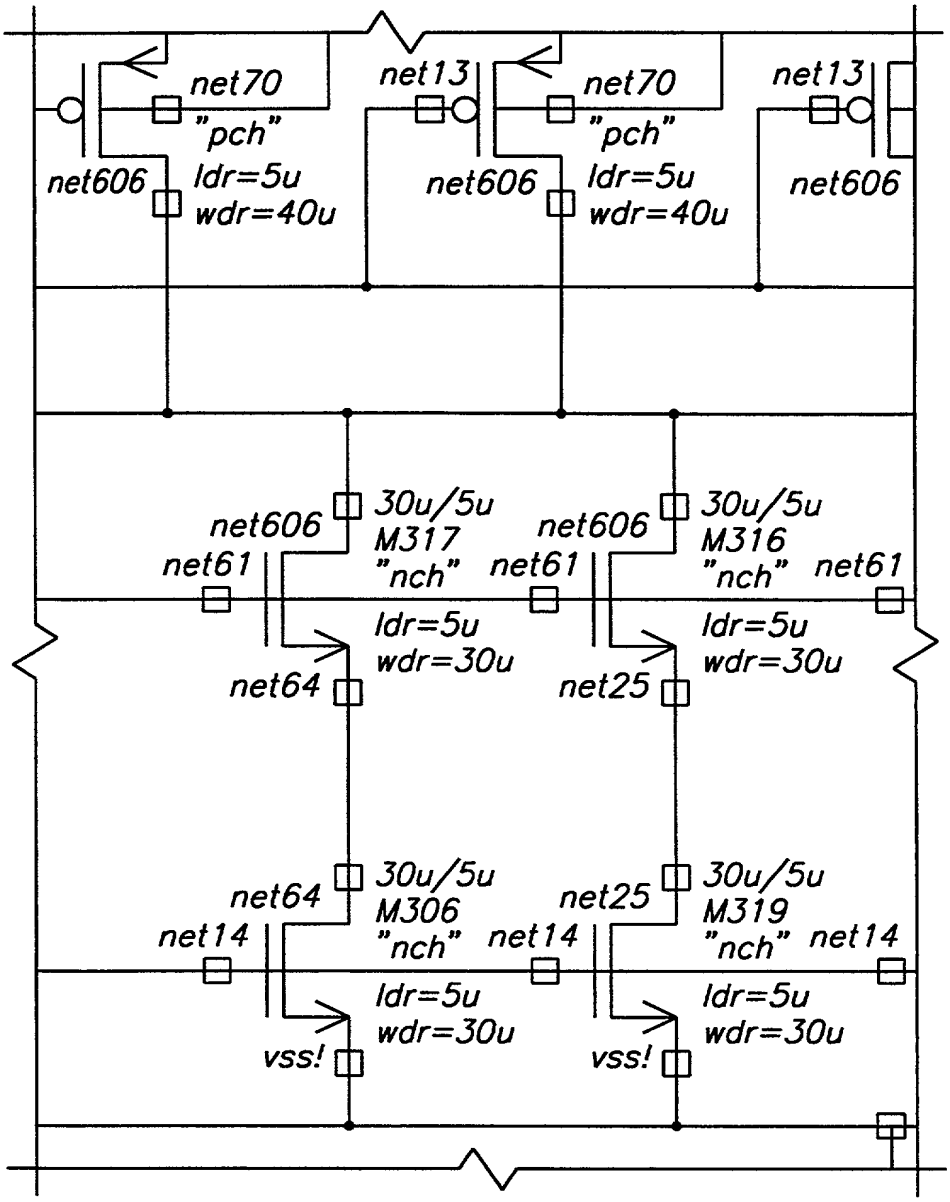


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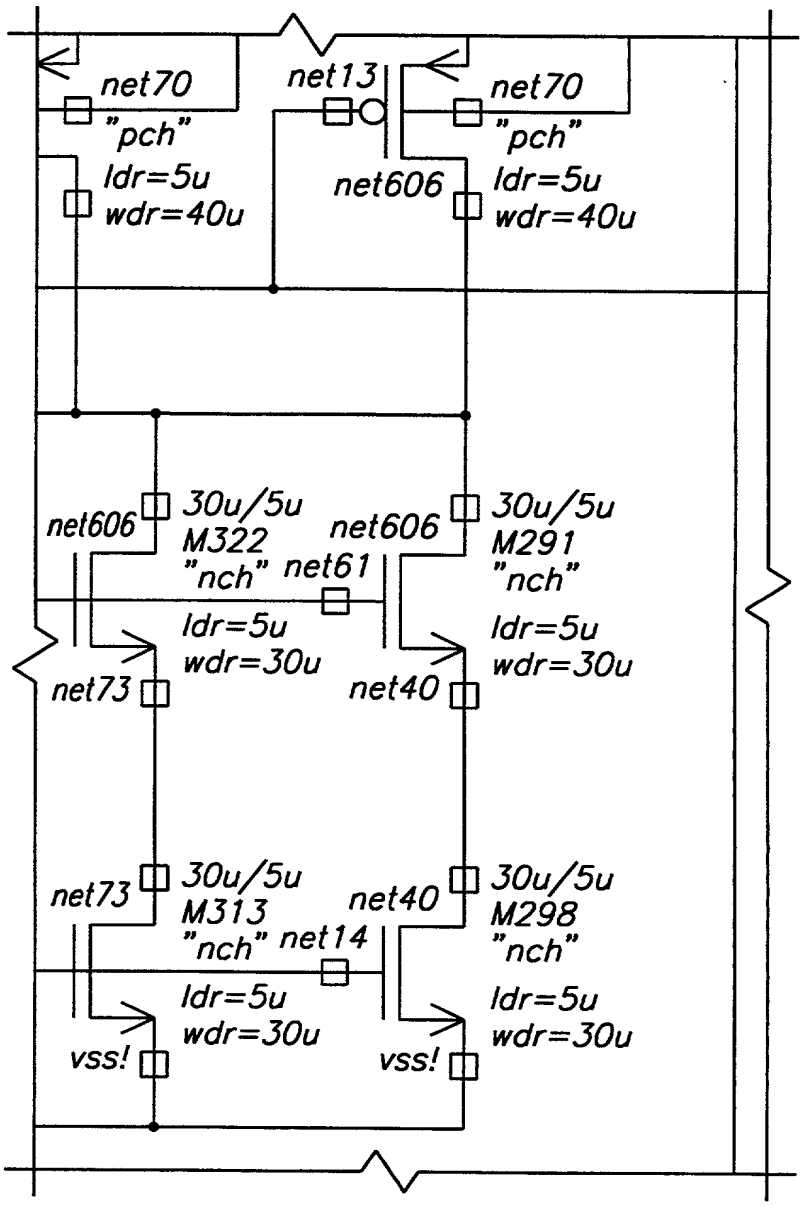


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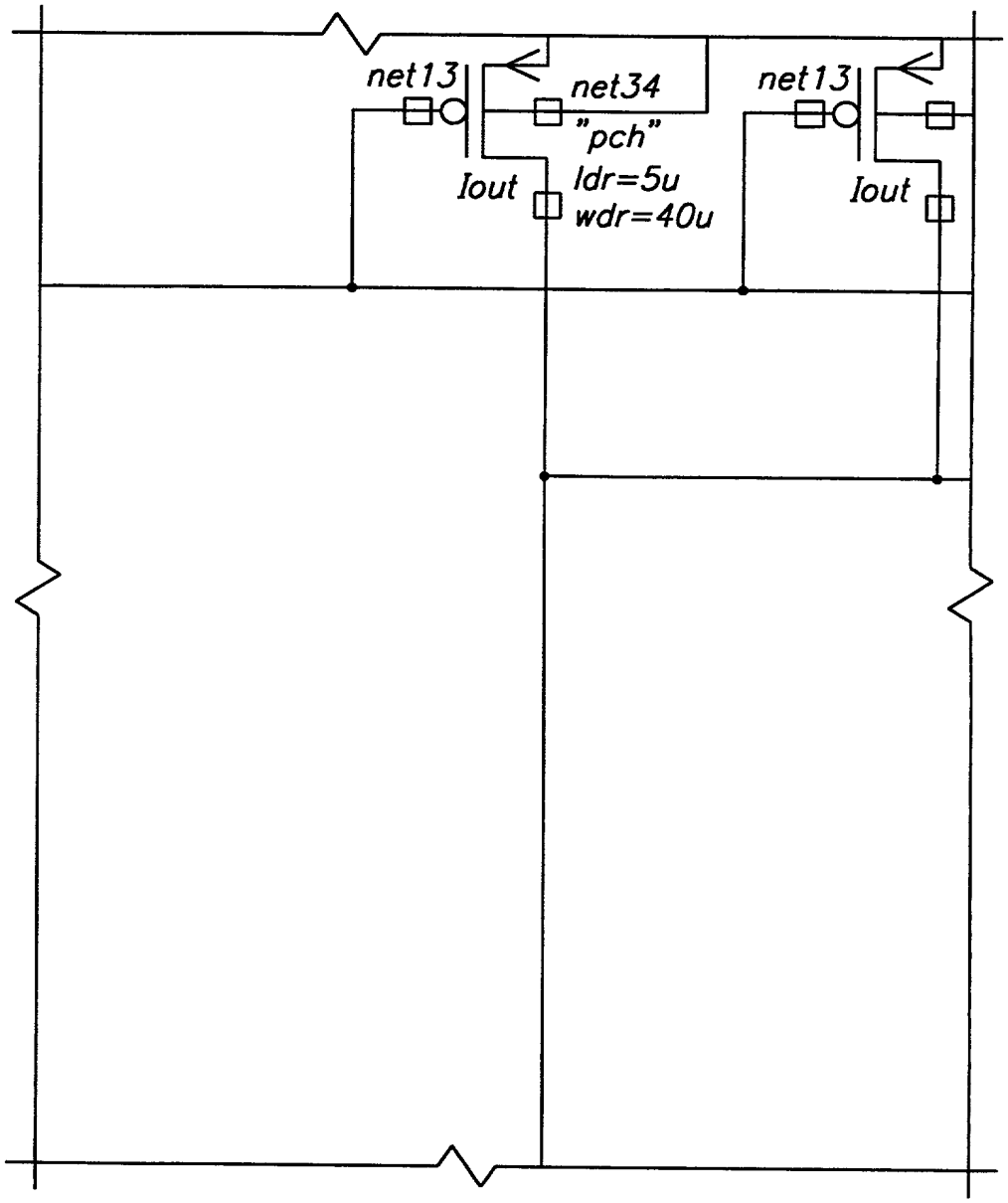


Fig 8.050402BH

US6144054

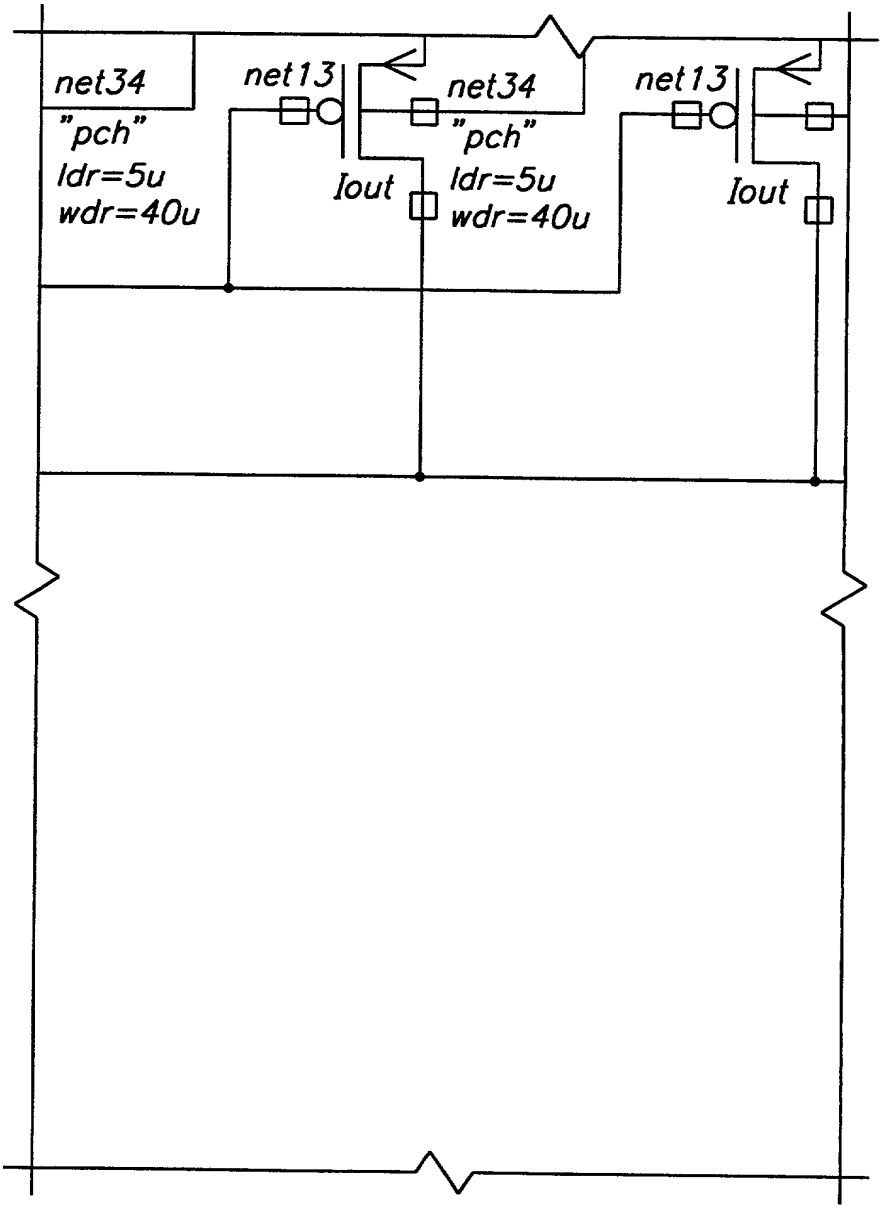


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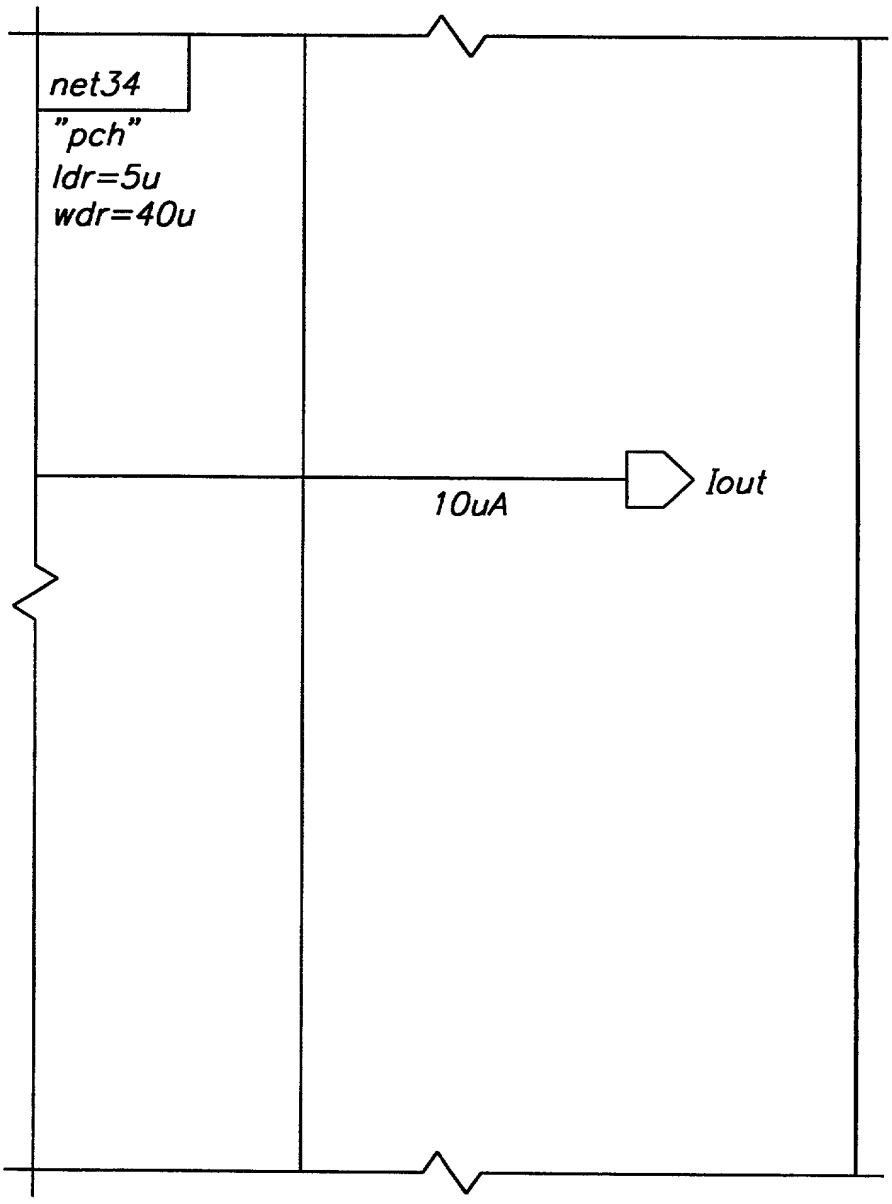


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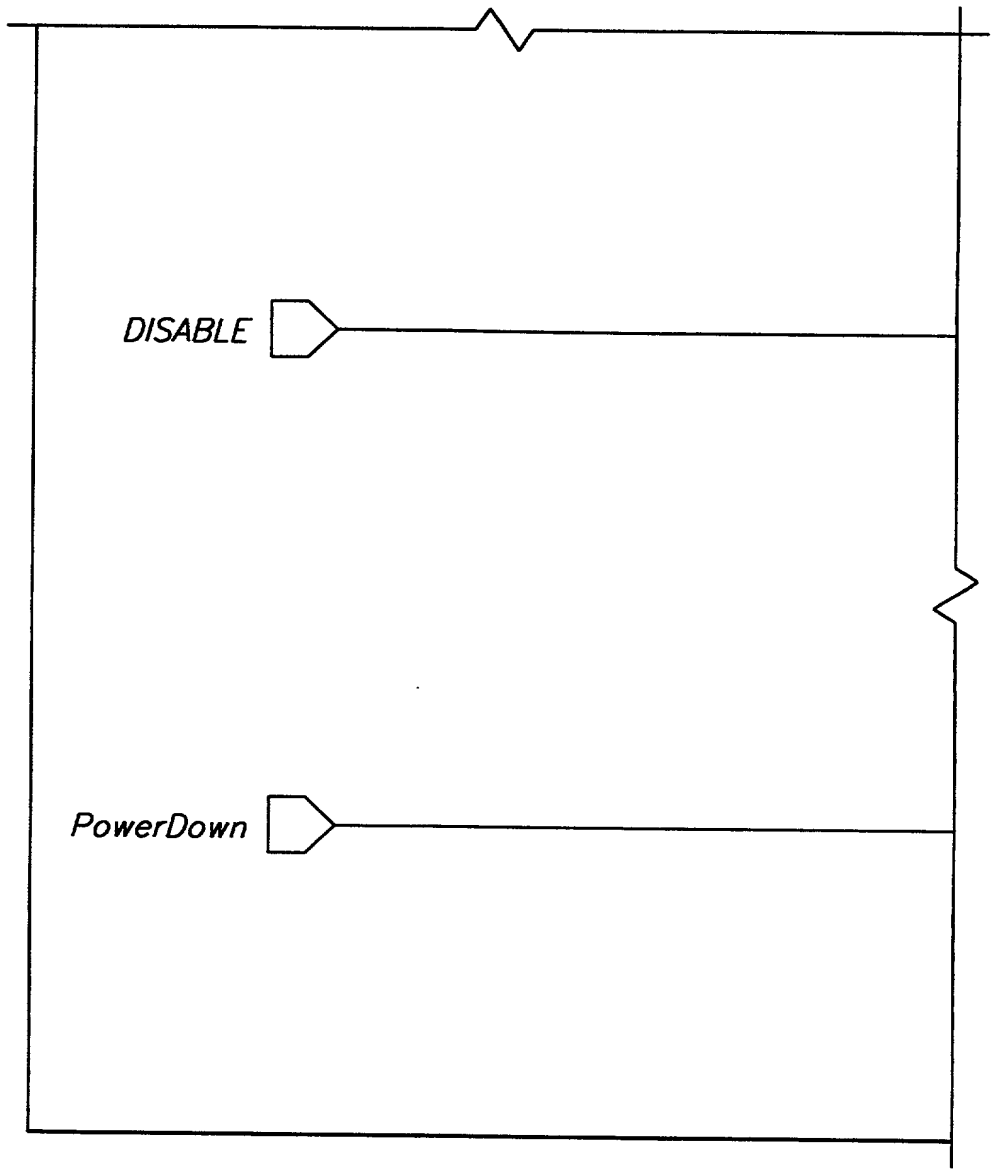


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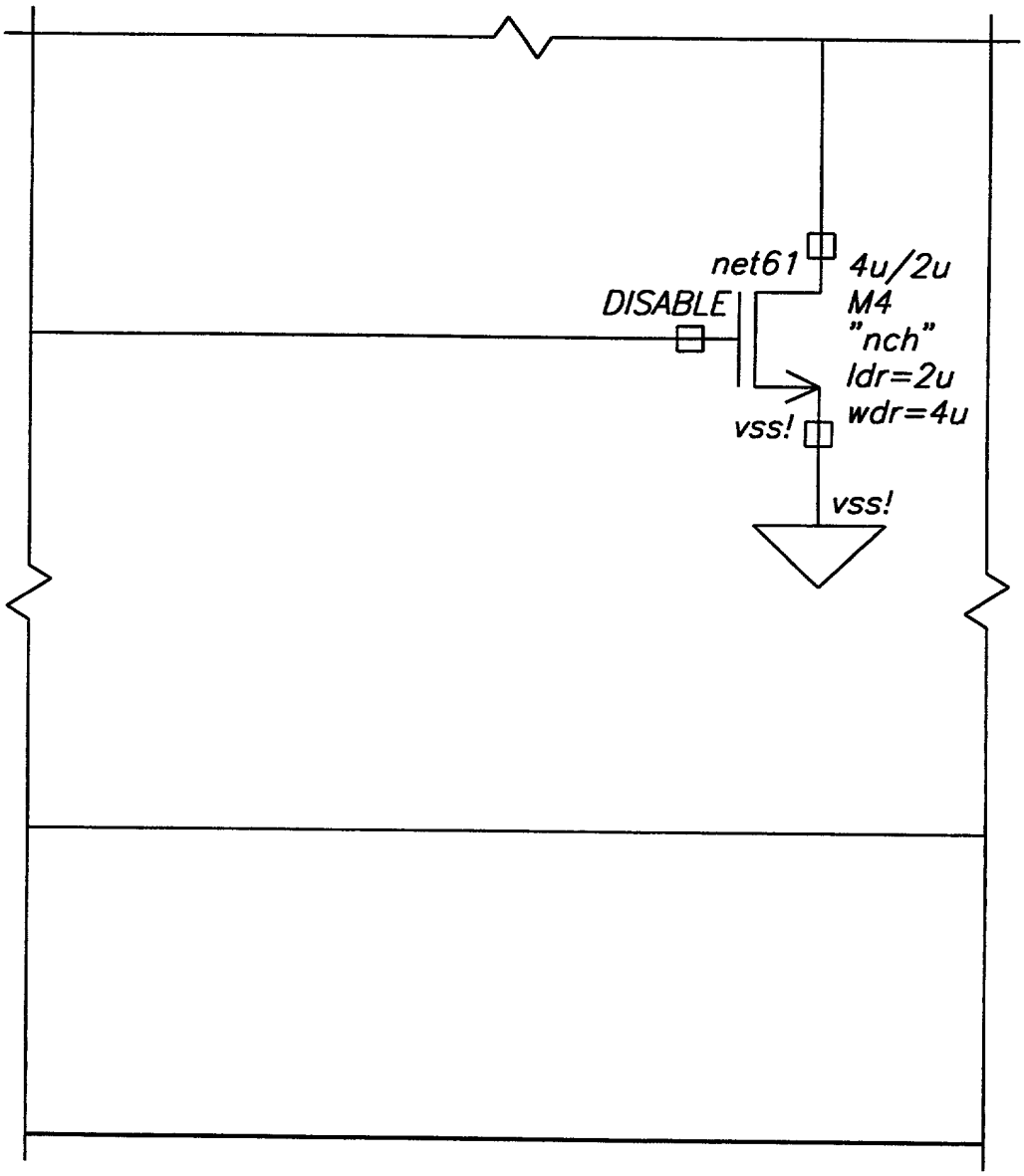


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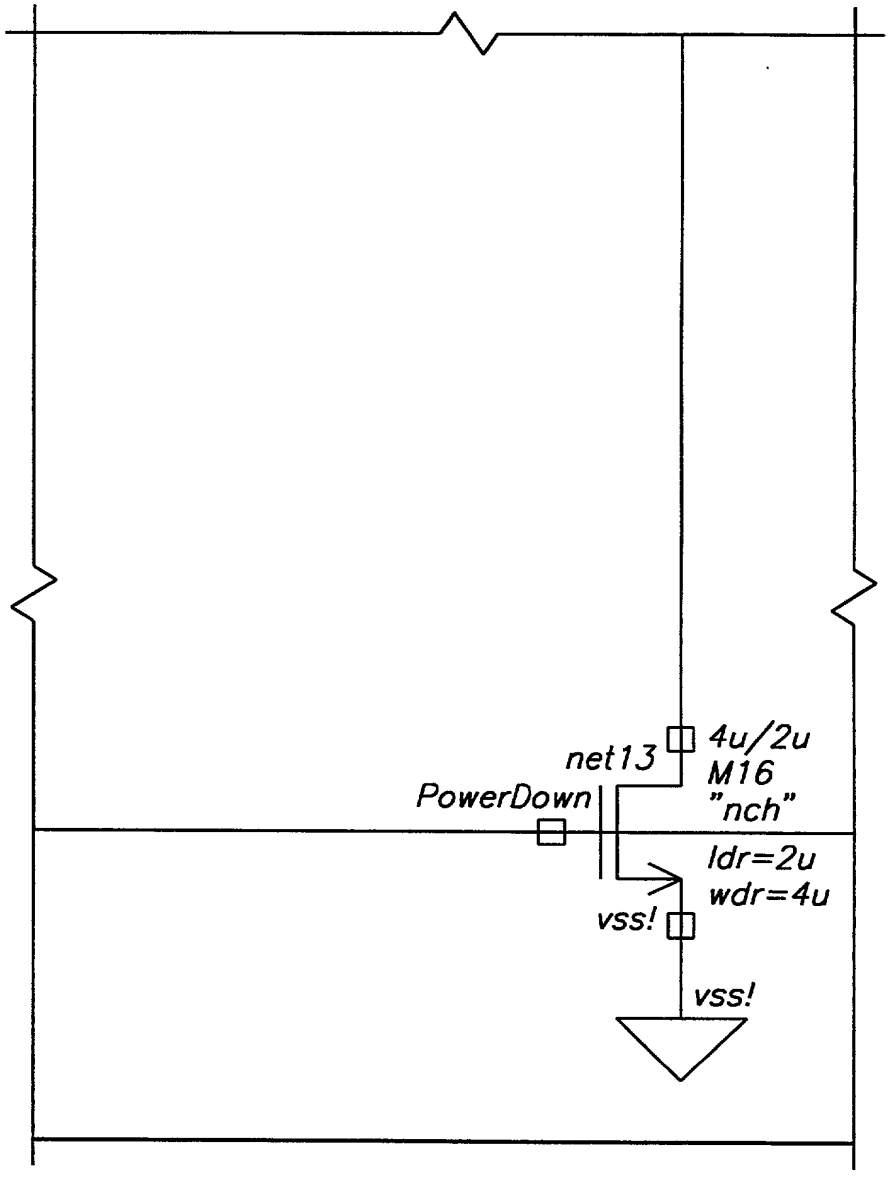


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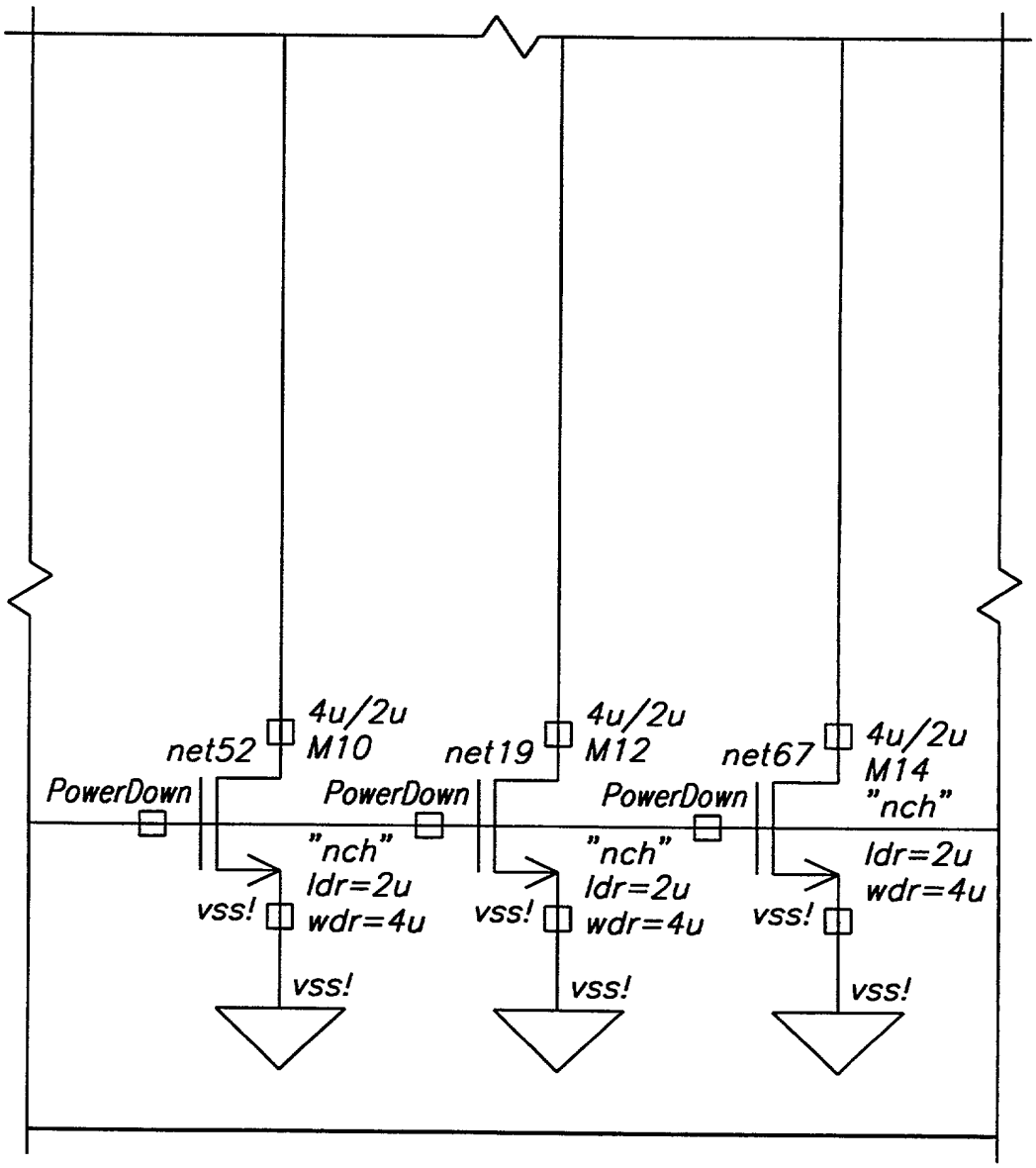


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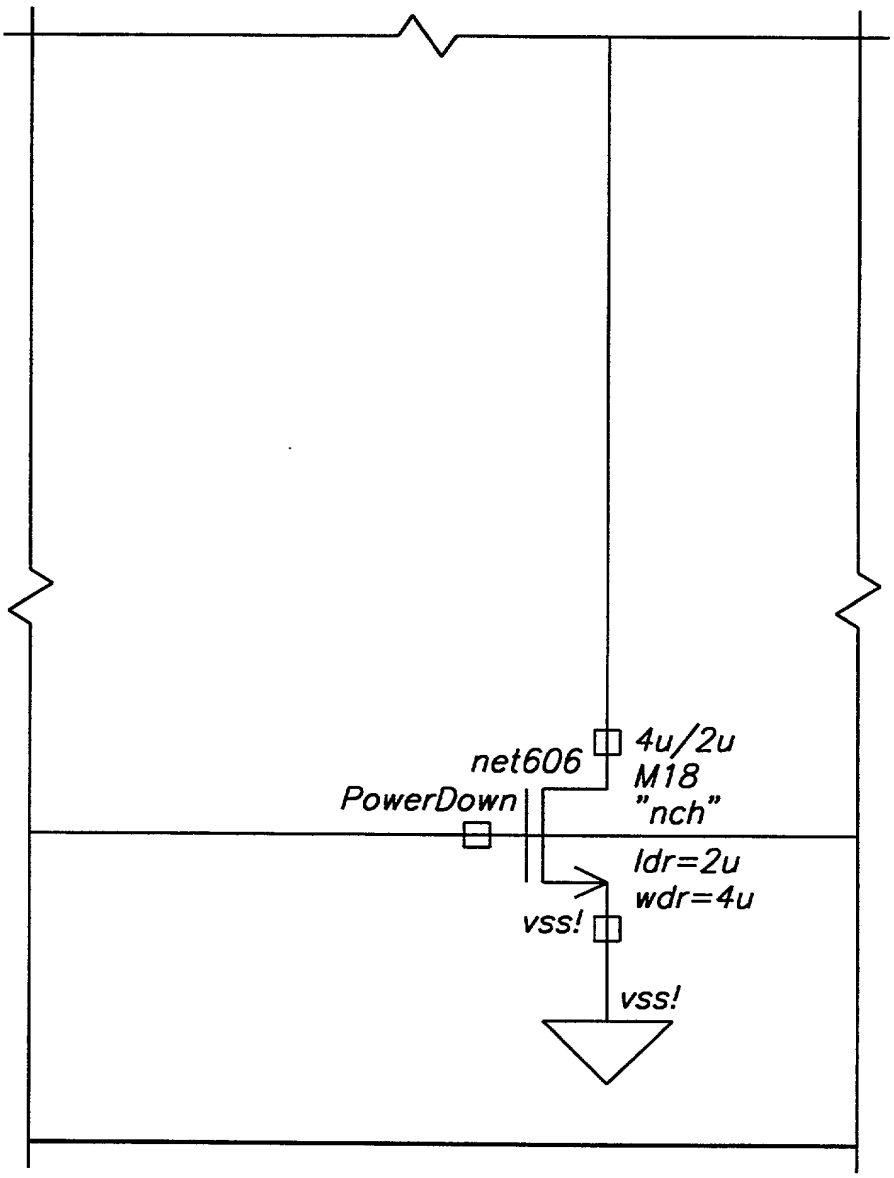


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1668/3273

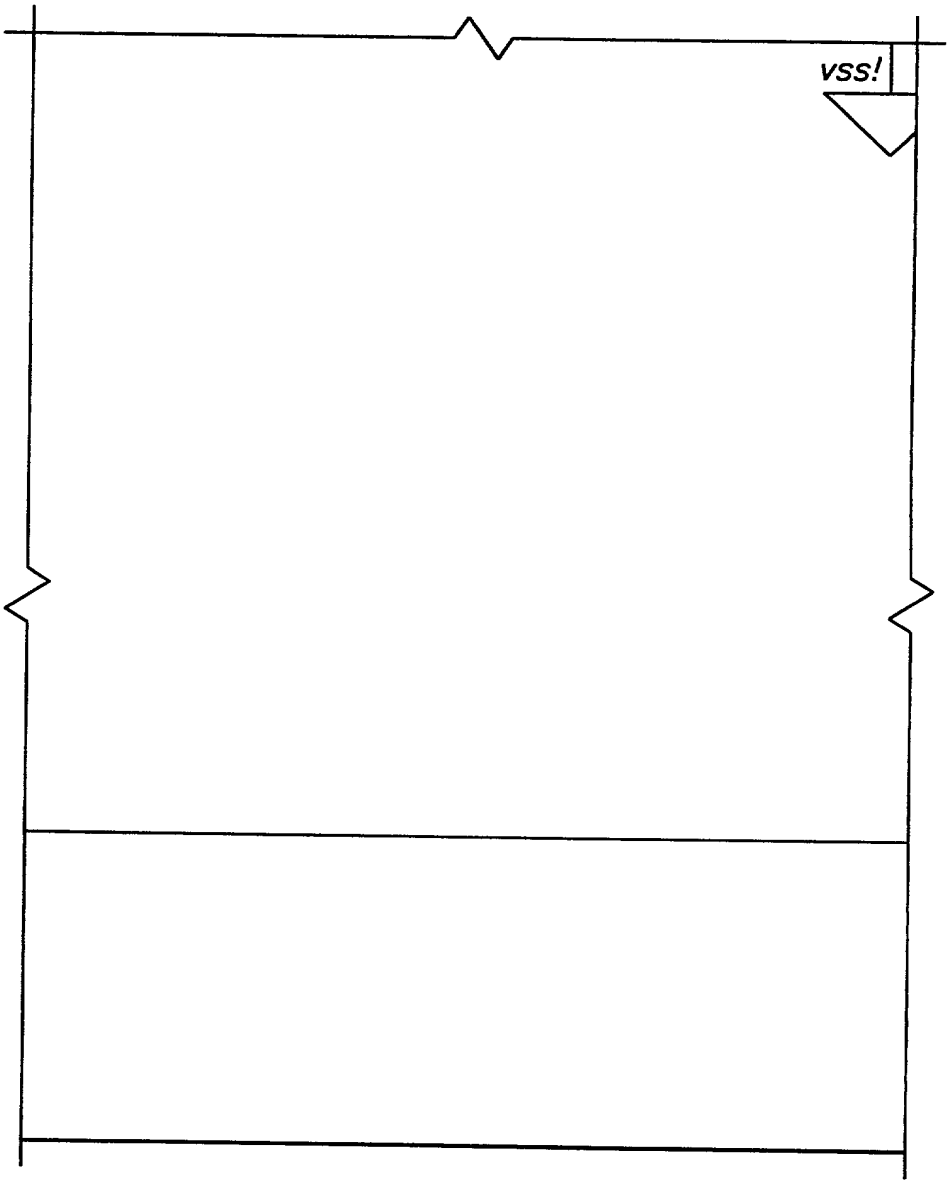


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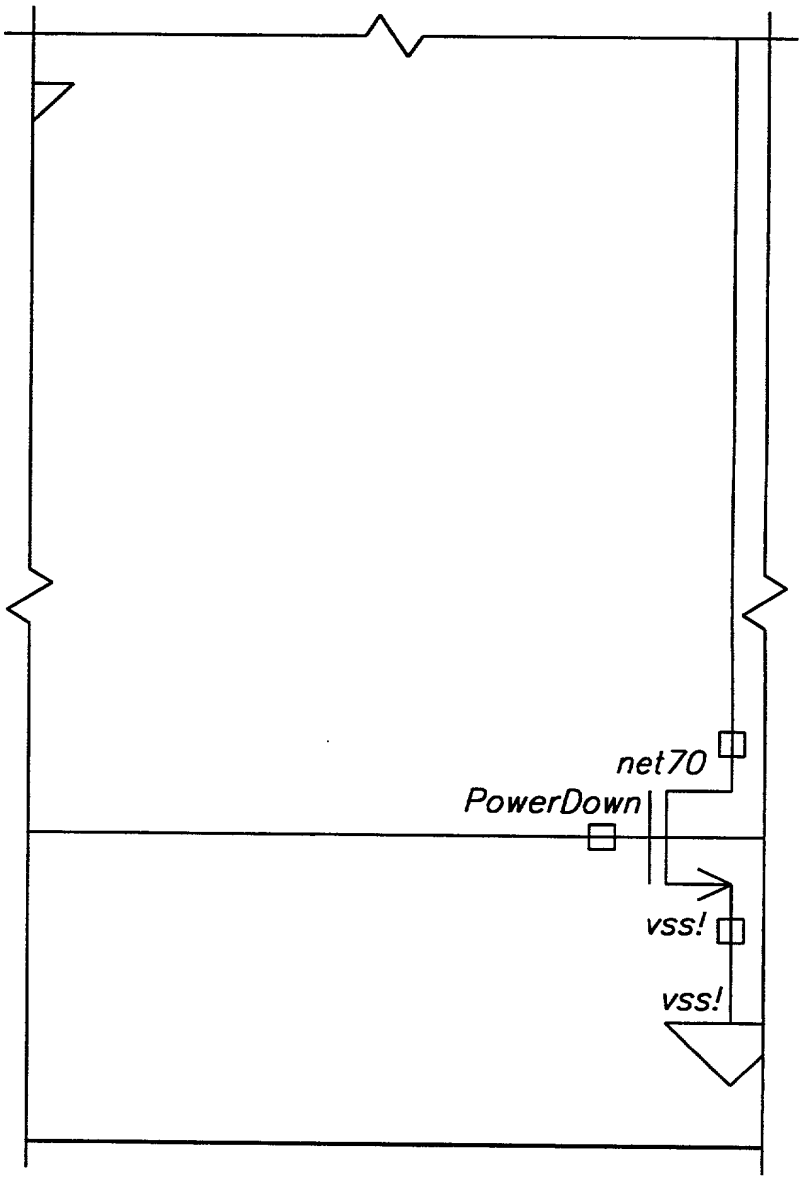


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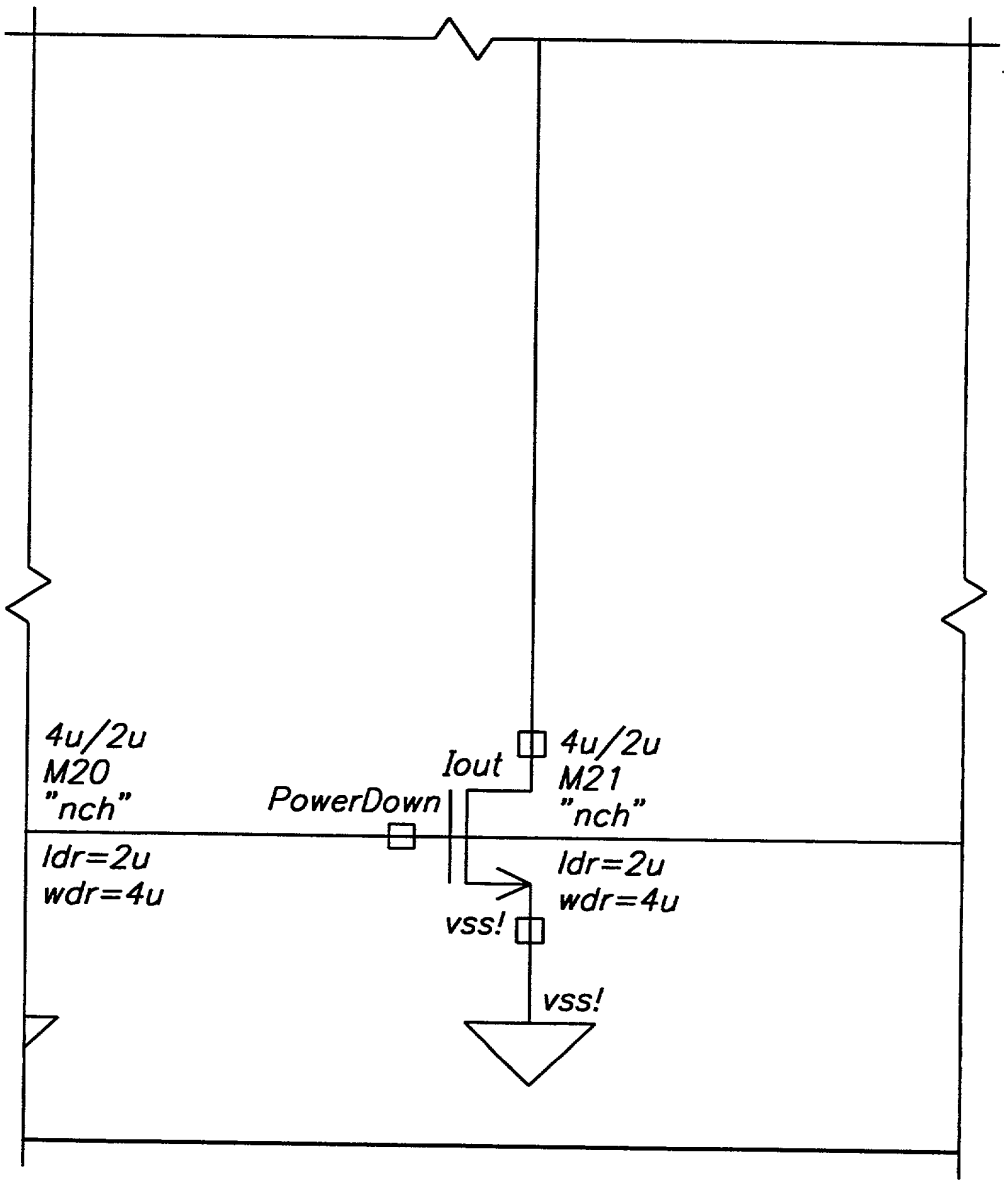


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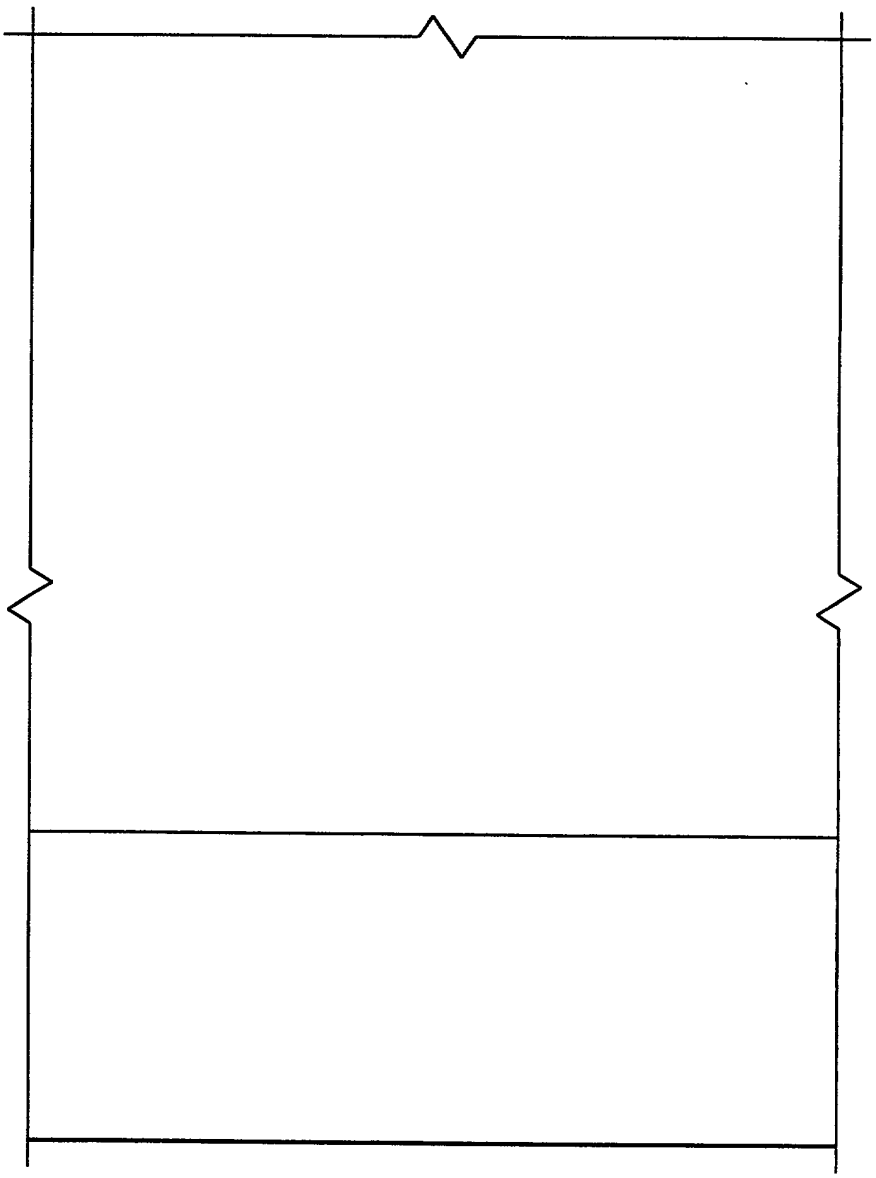


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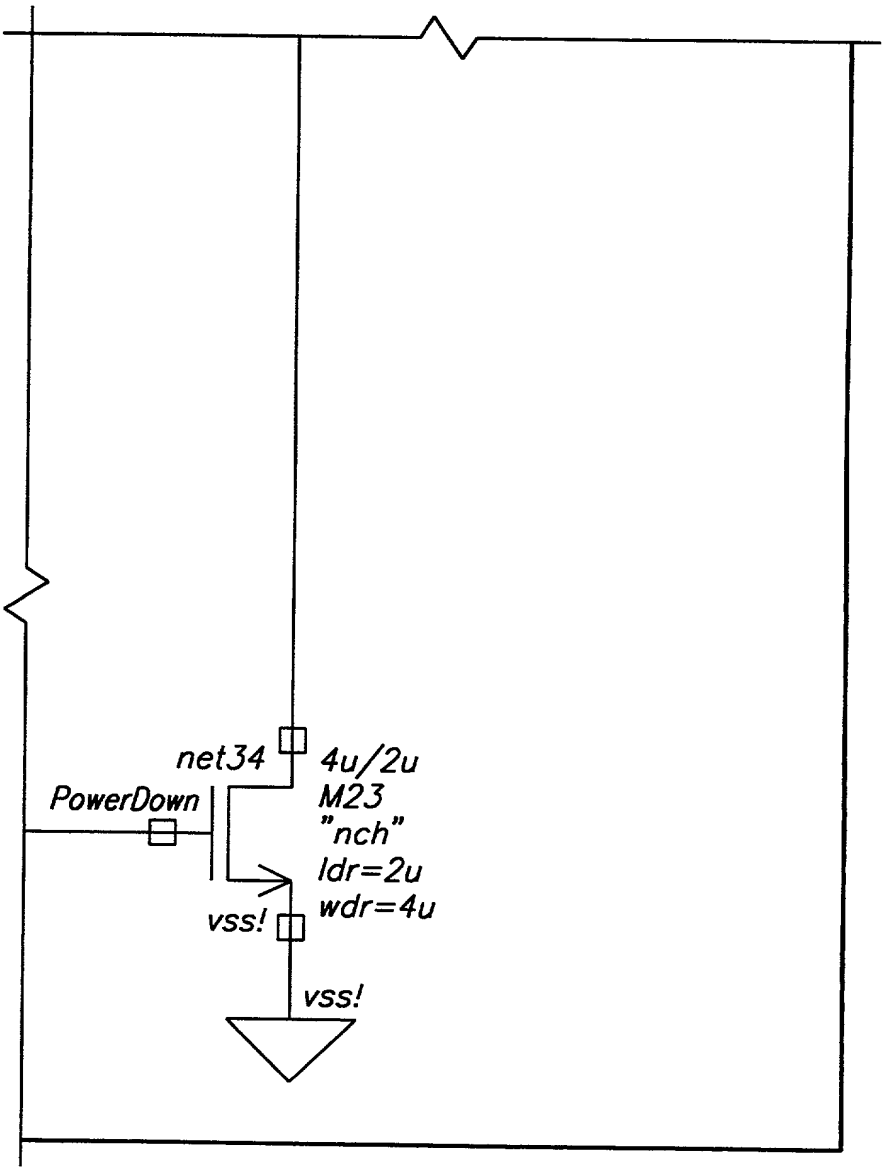


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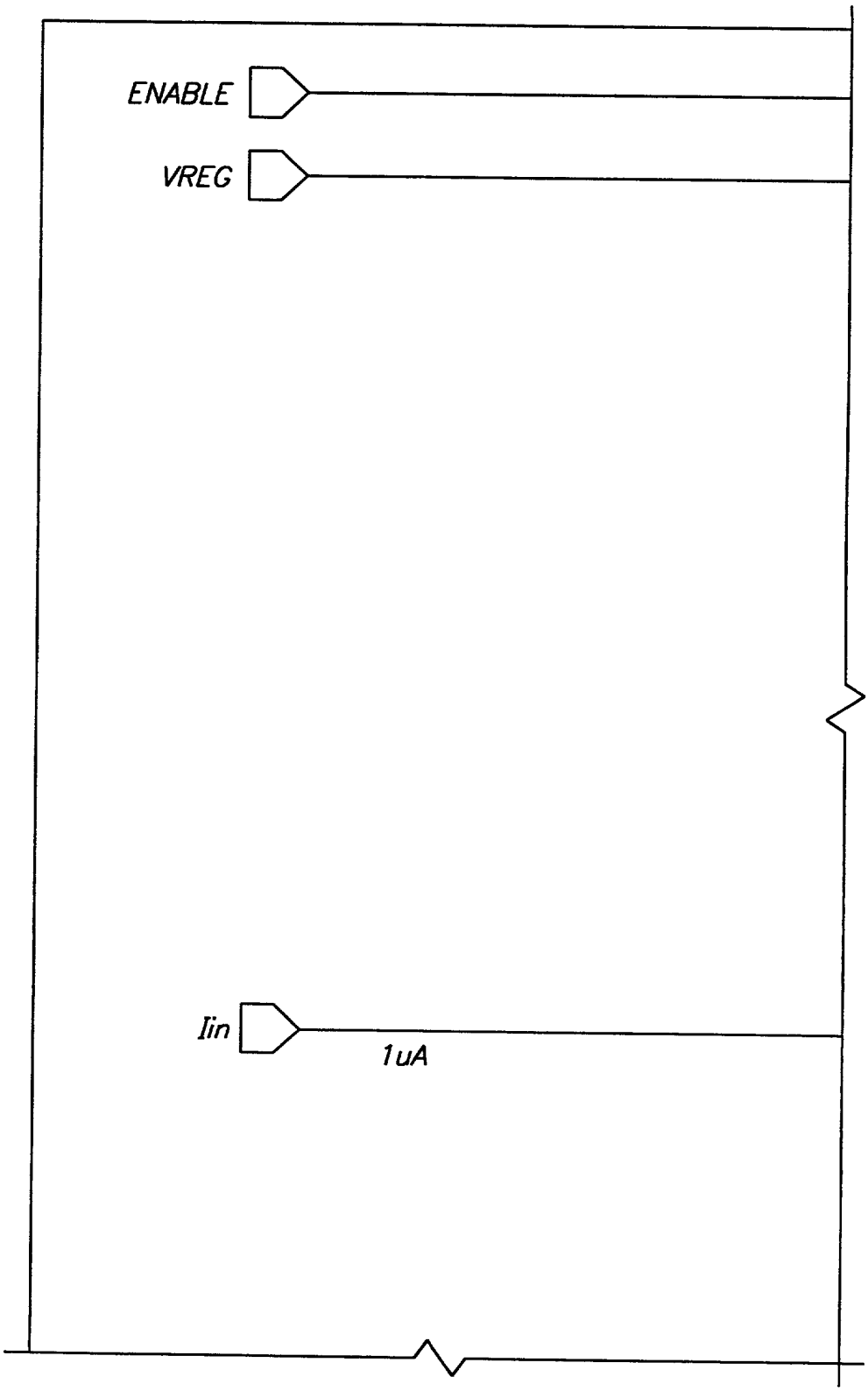


Fig 8.0504003AA

US005040034

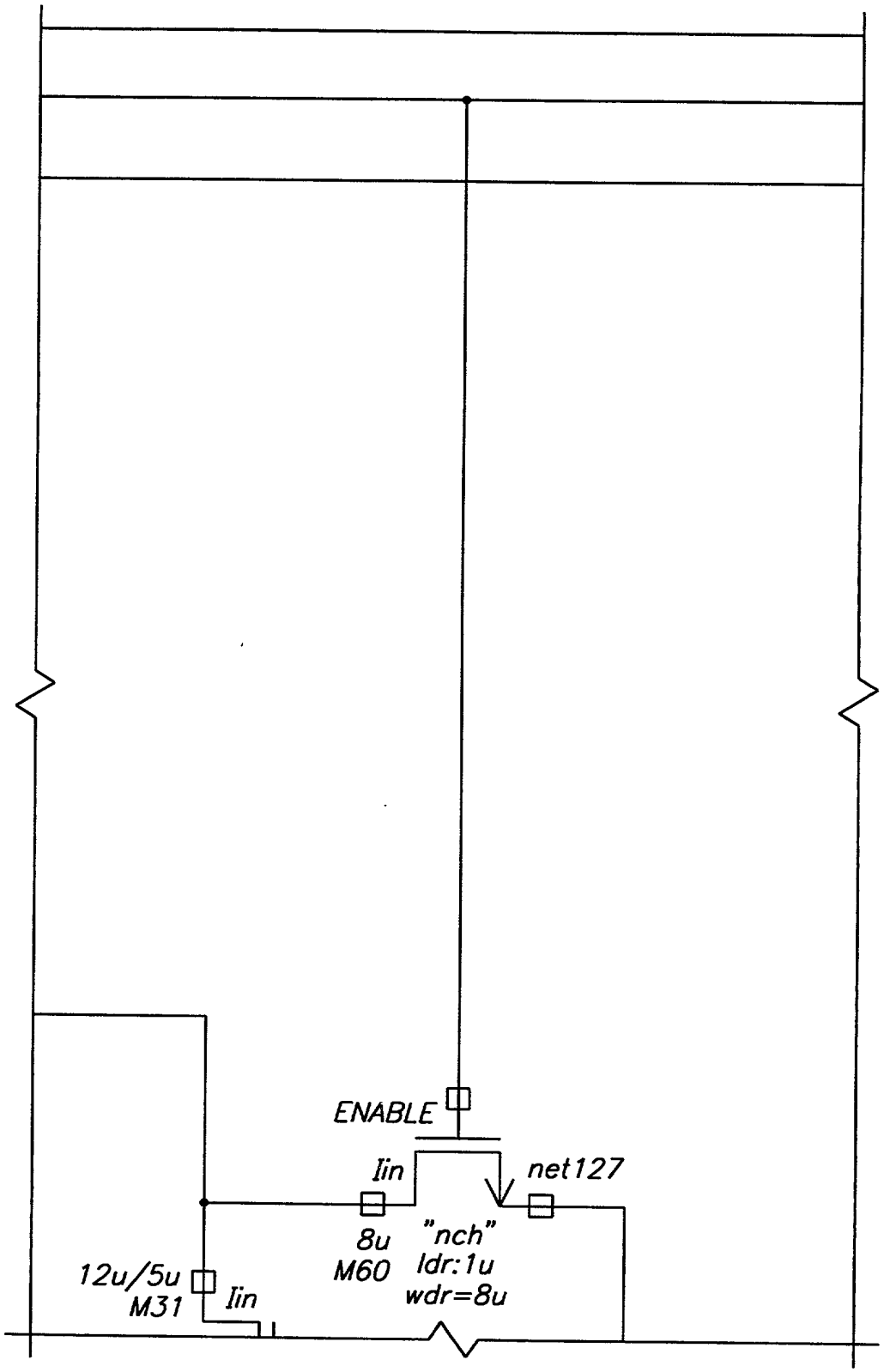


Fig 8.0504038AB

US5625304

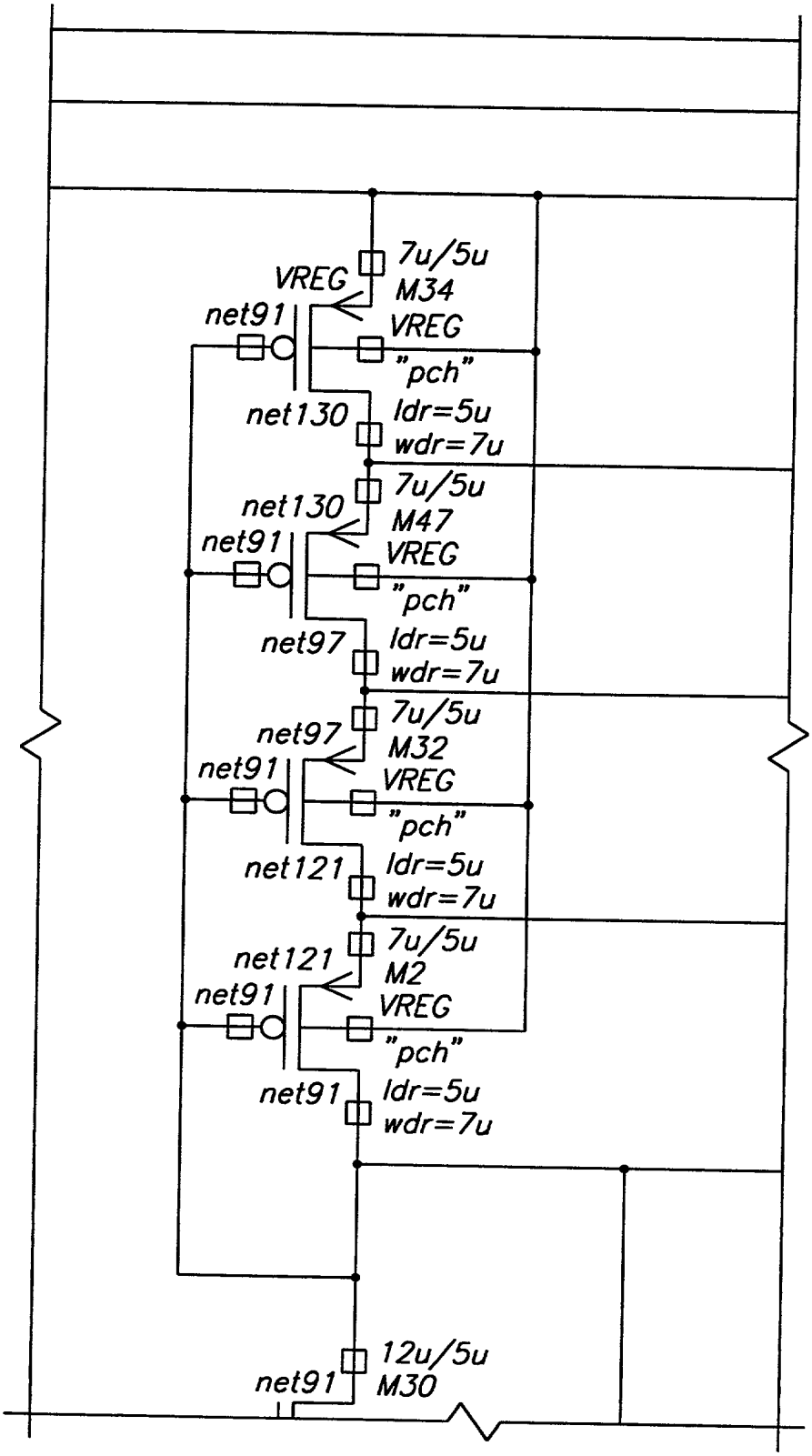


Fig 8.050-4003AC

1677/3273

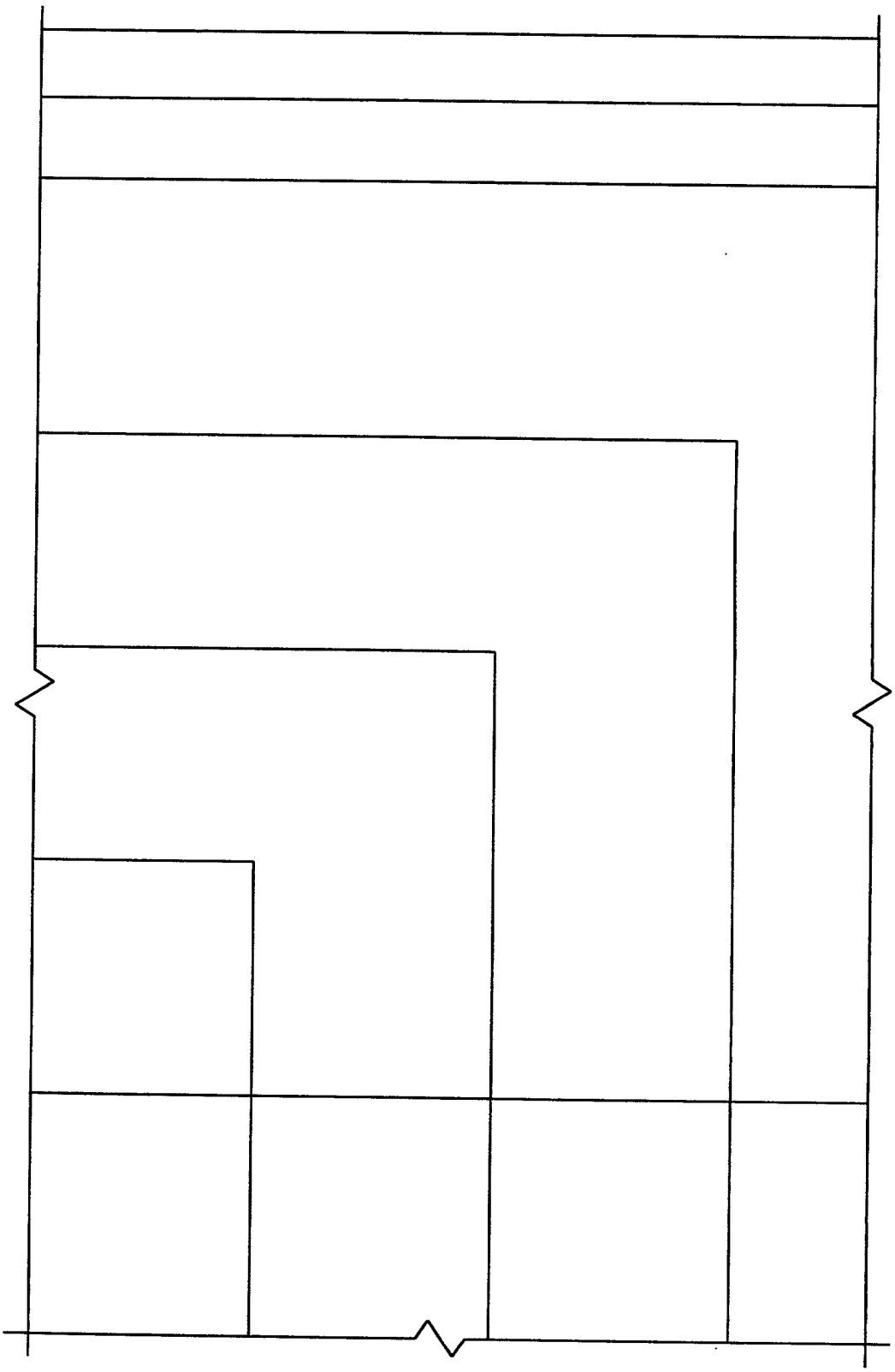


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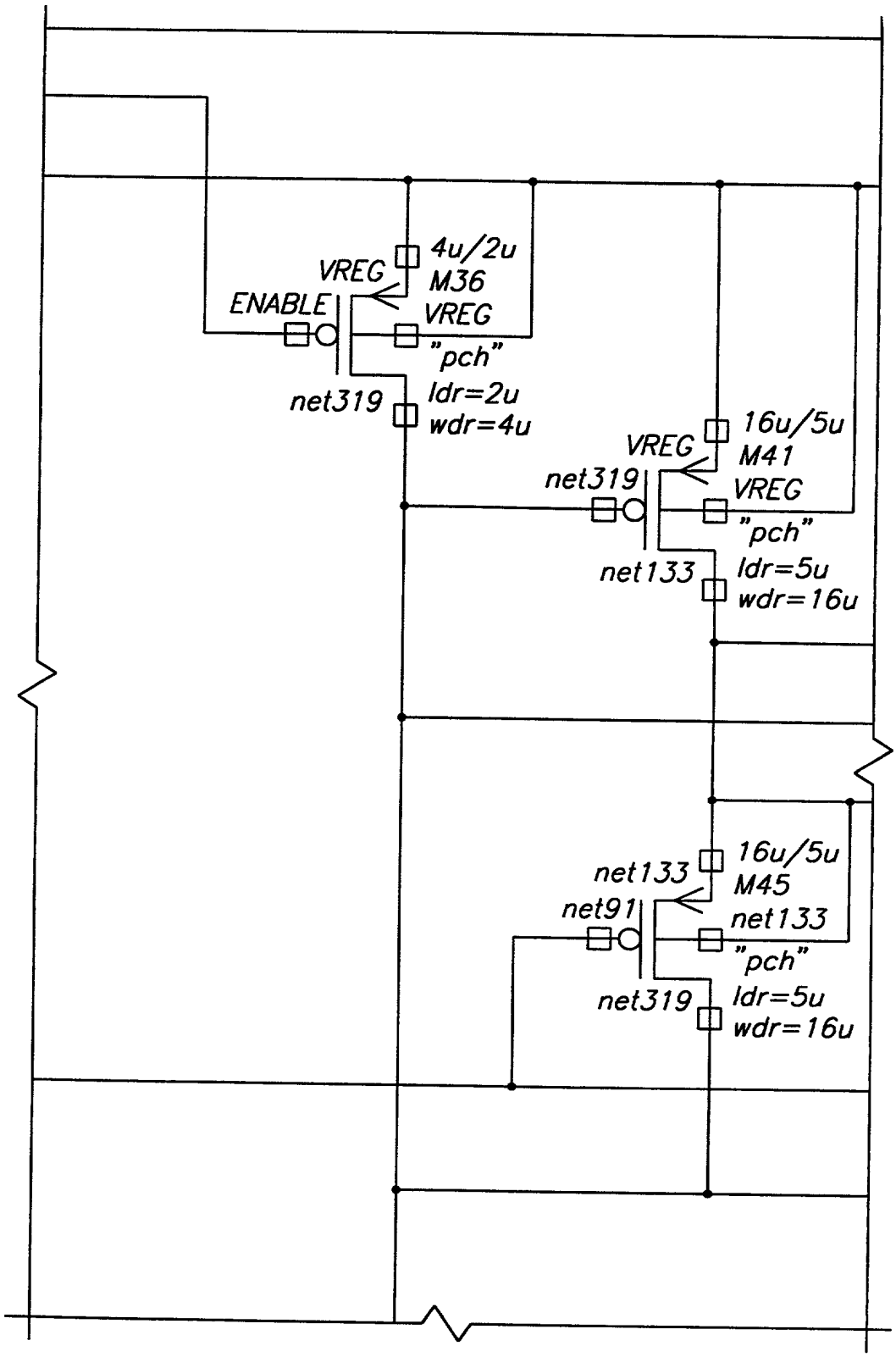


Fig 8.0504AE

Patent-2005-0052934-D00045

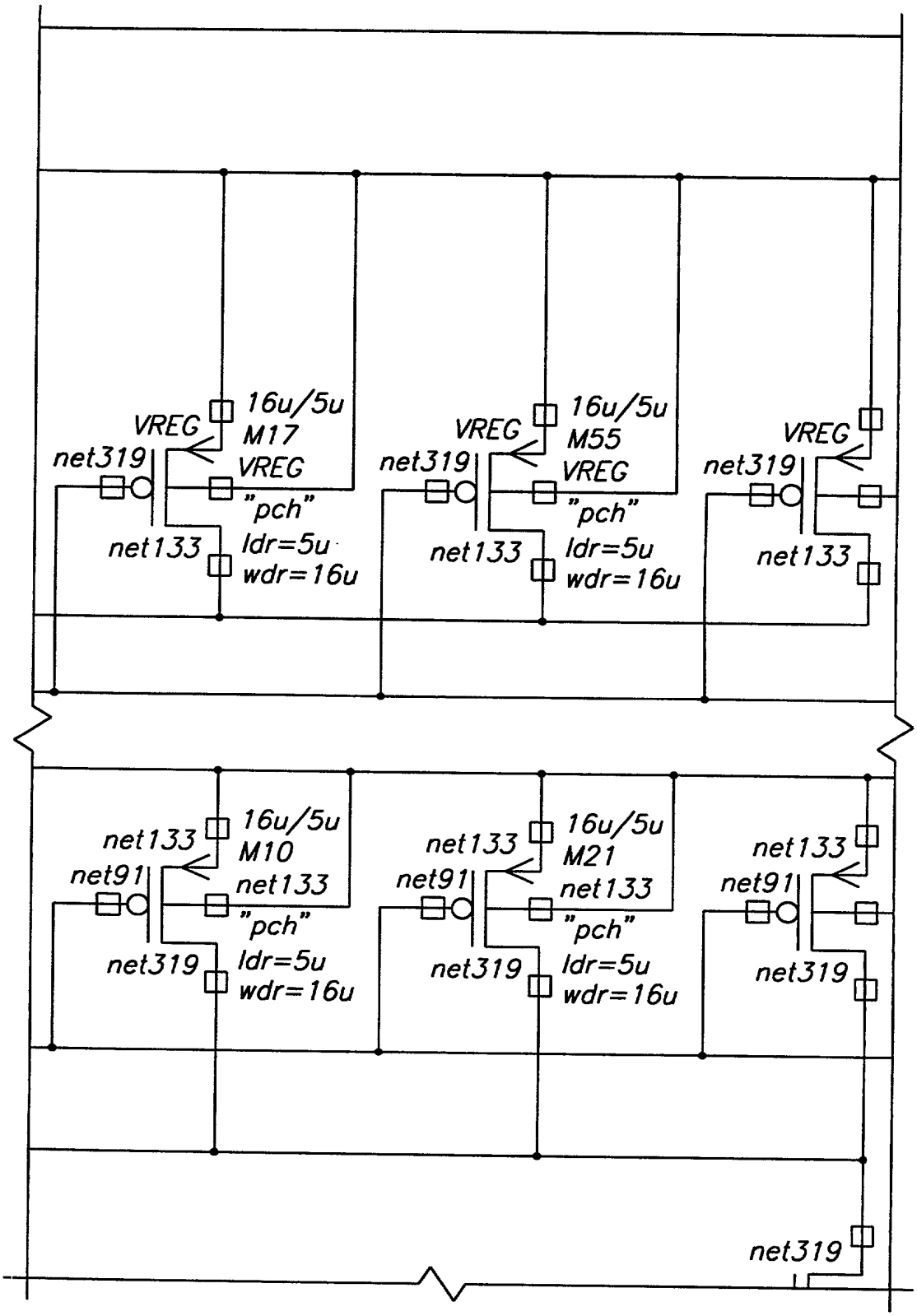
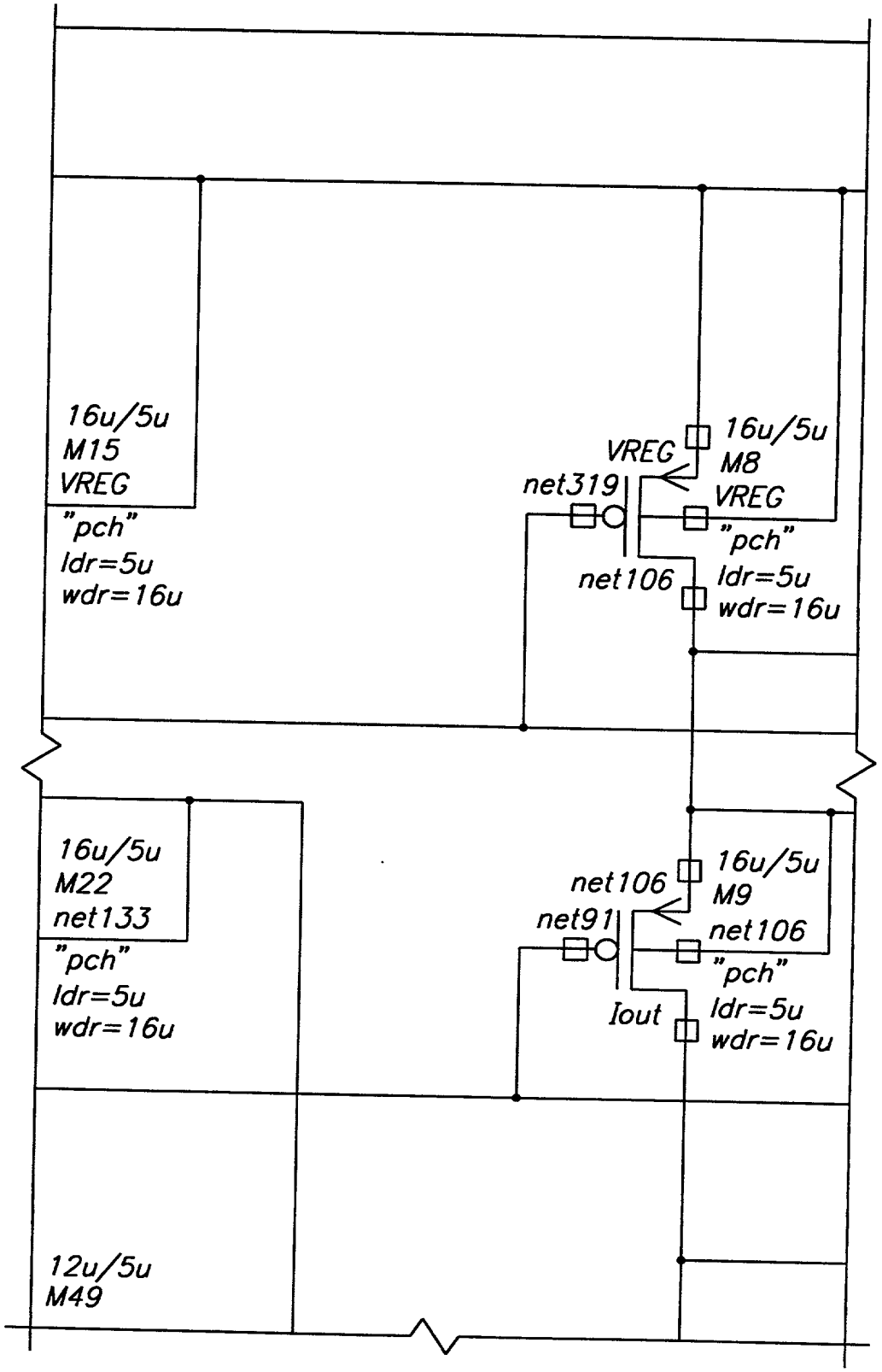
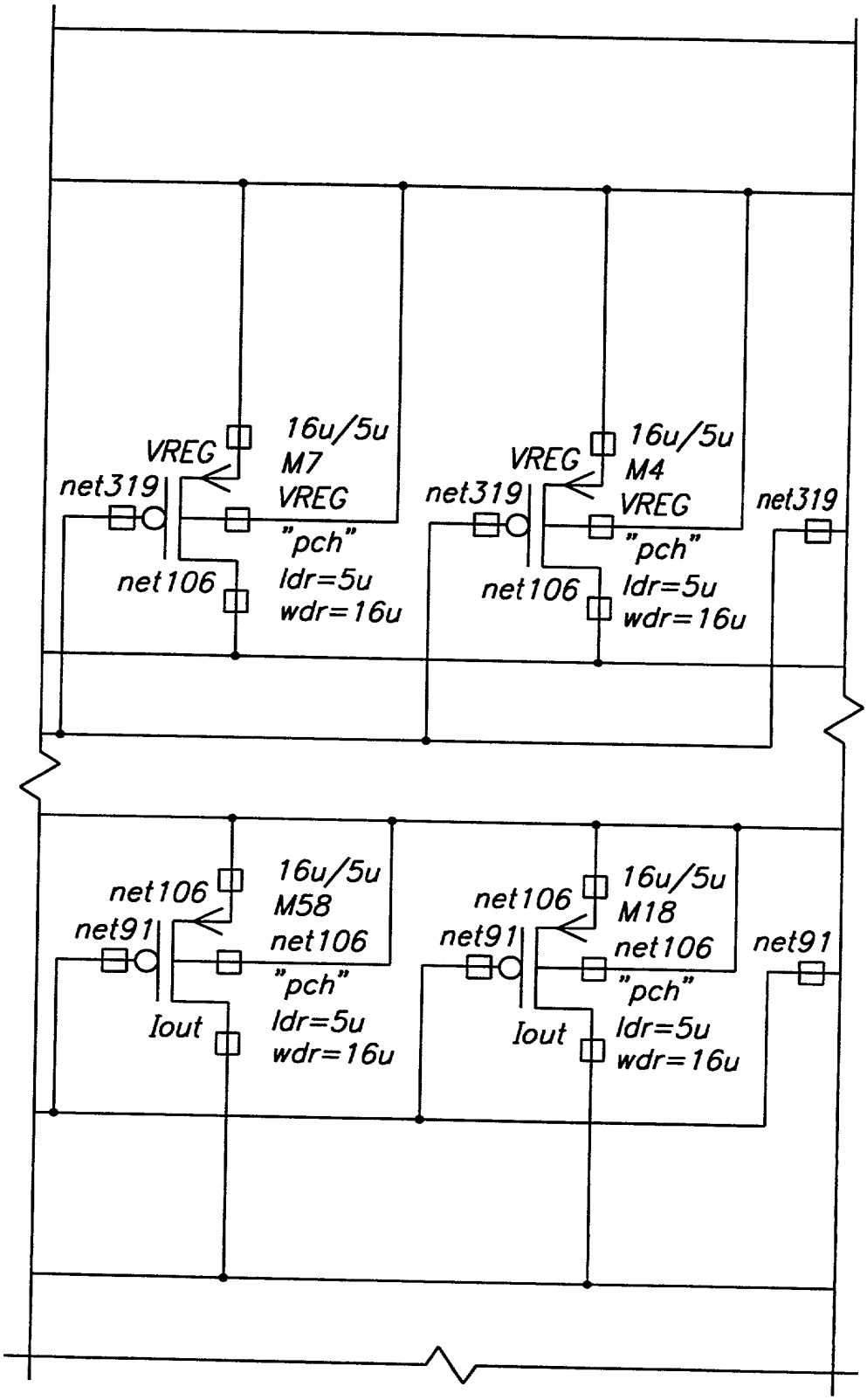


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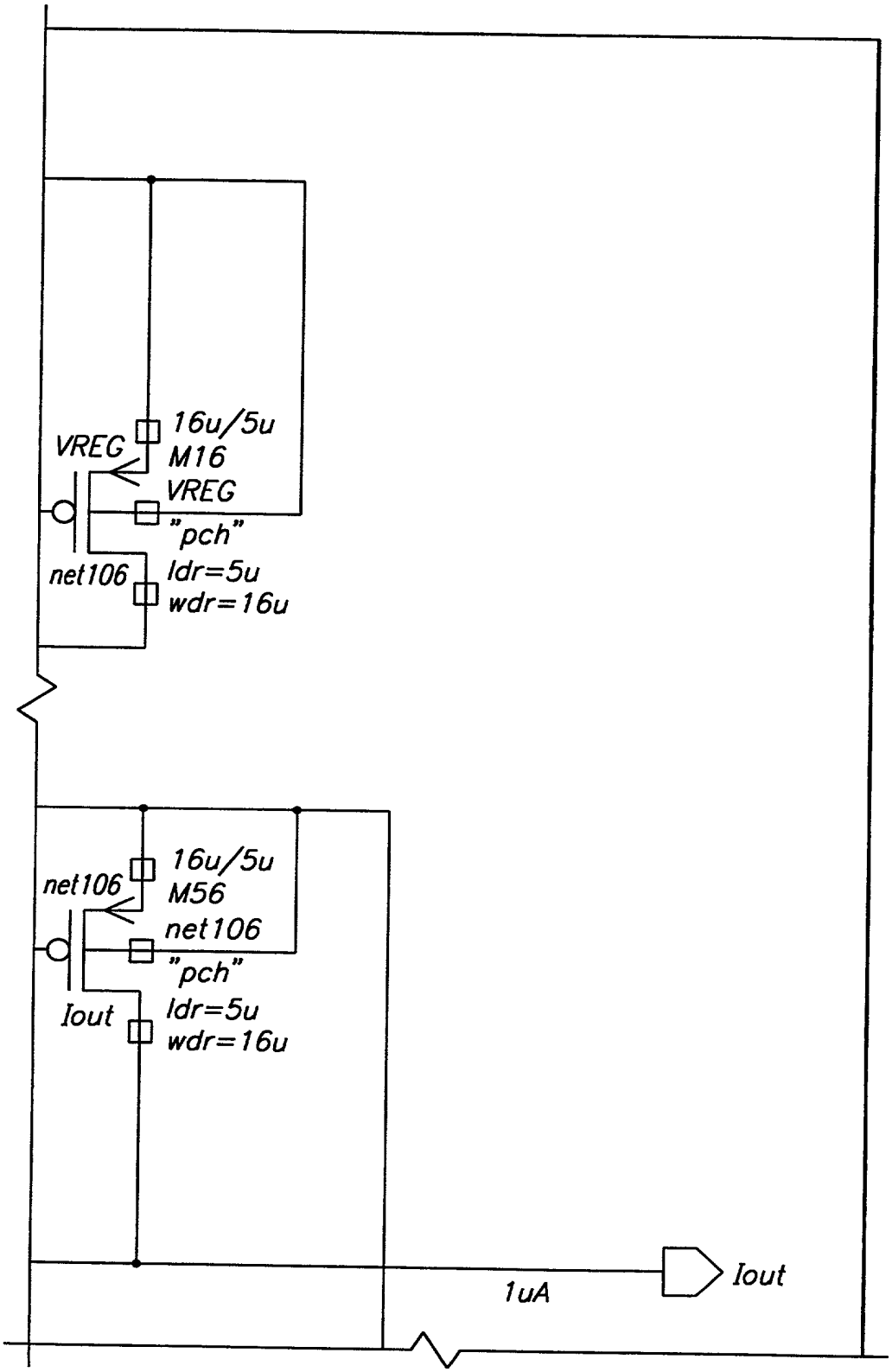


Fig 8,050,403A1

1683/3273

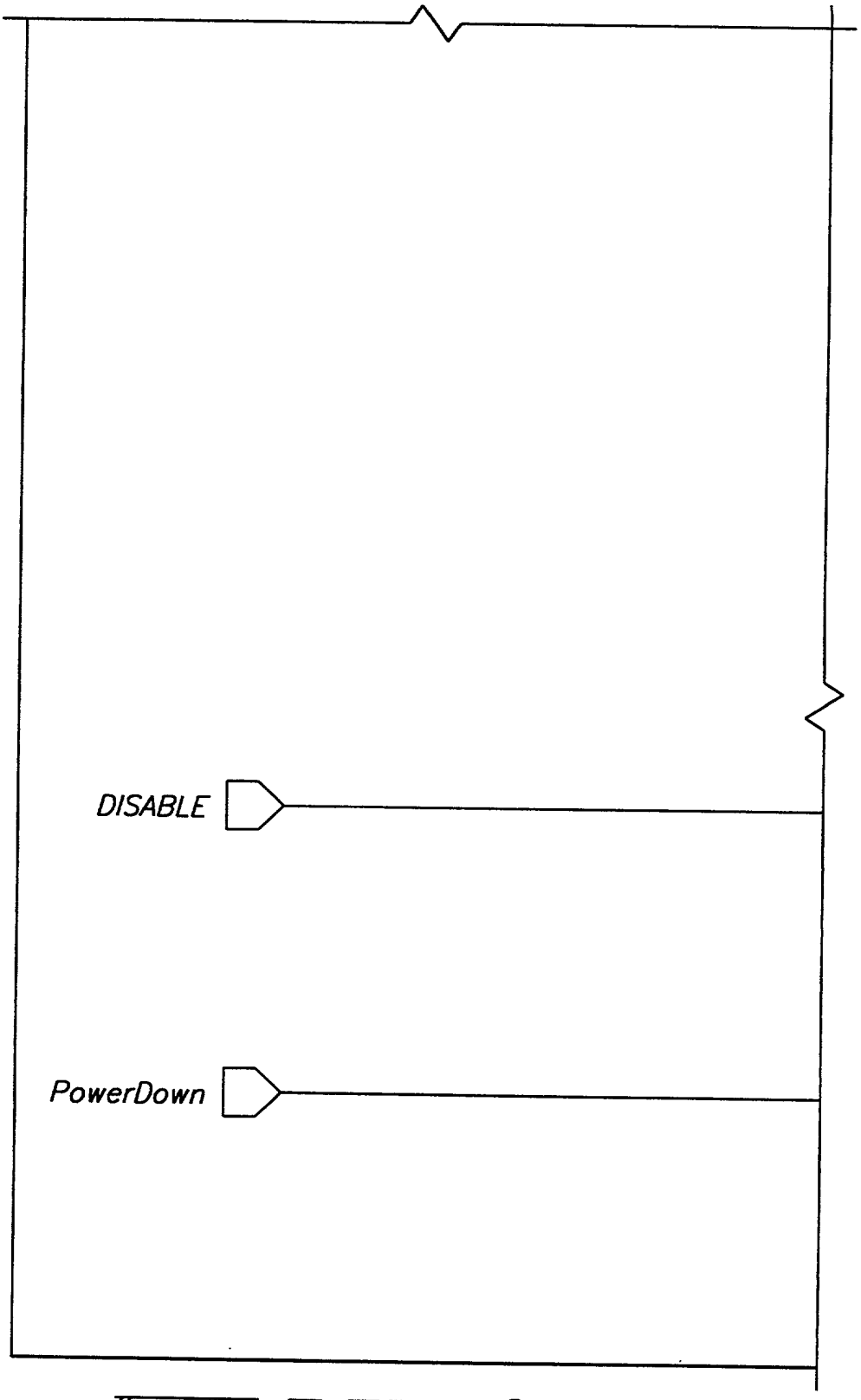


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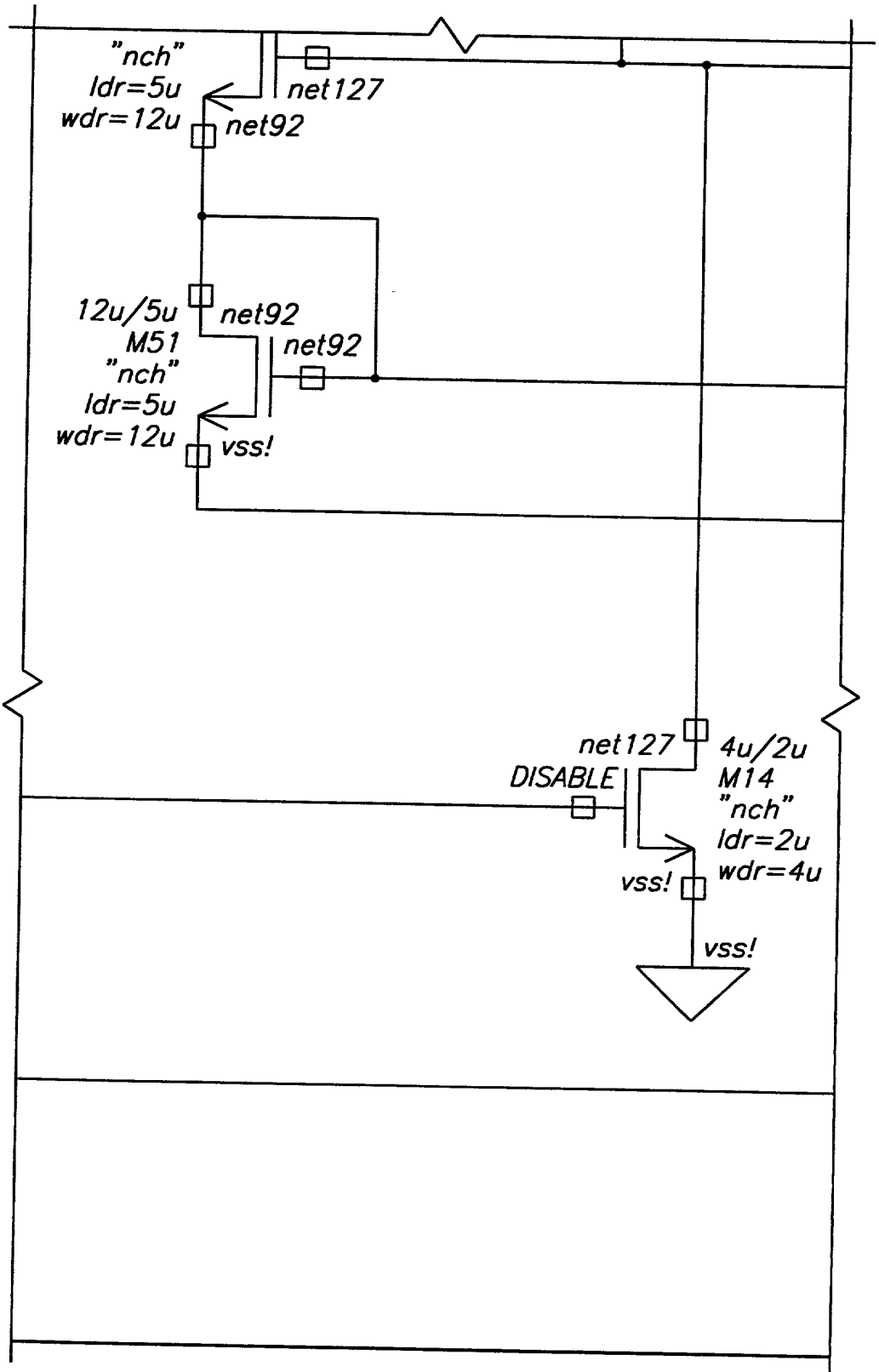
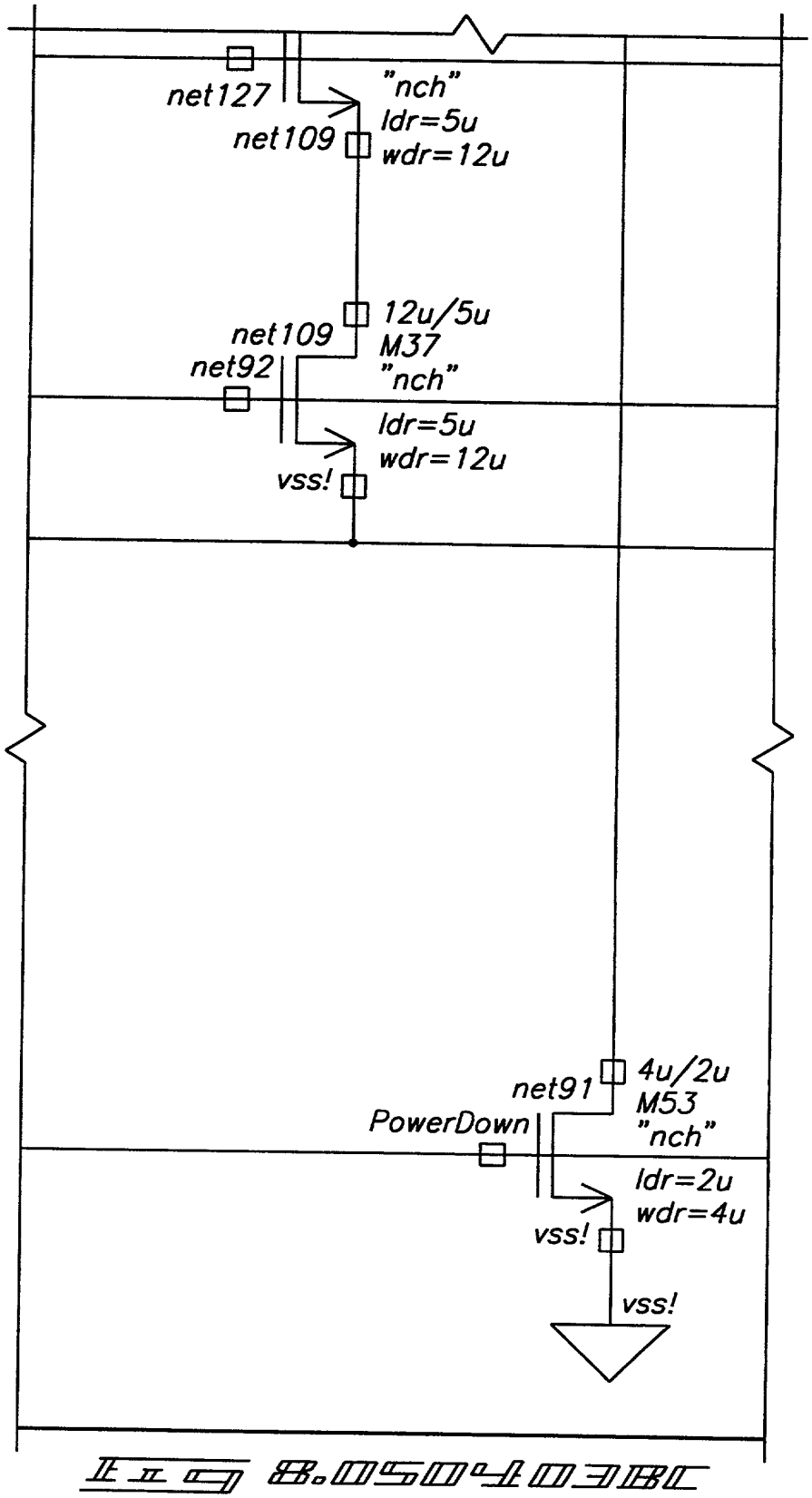


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US 8050403 B2



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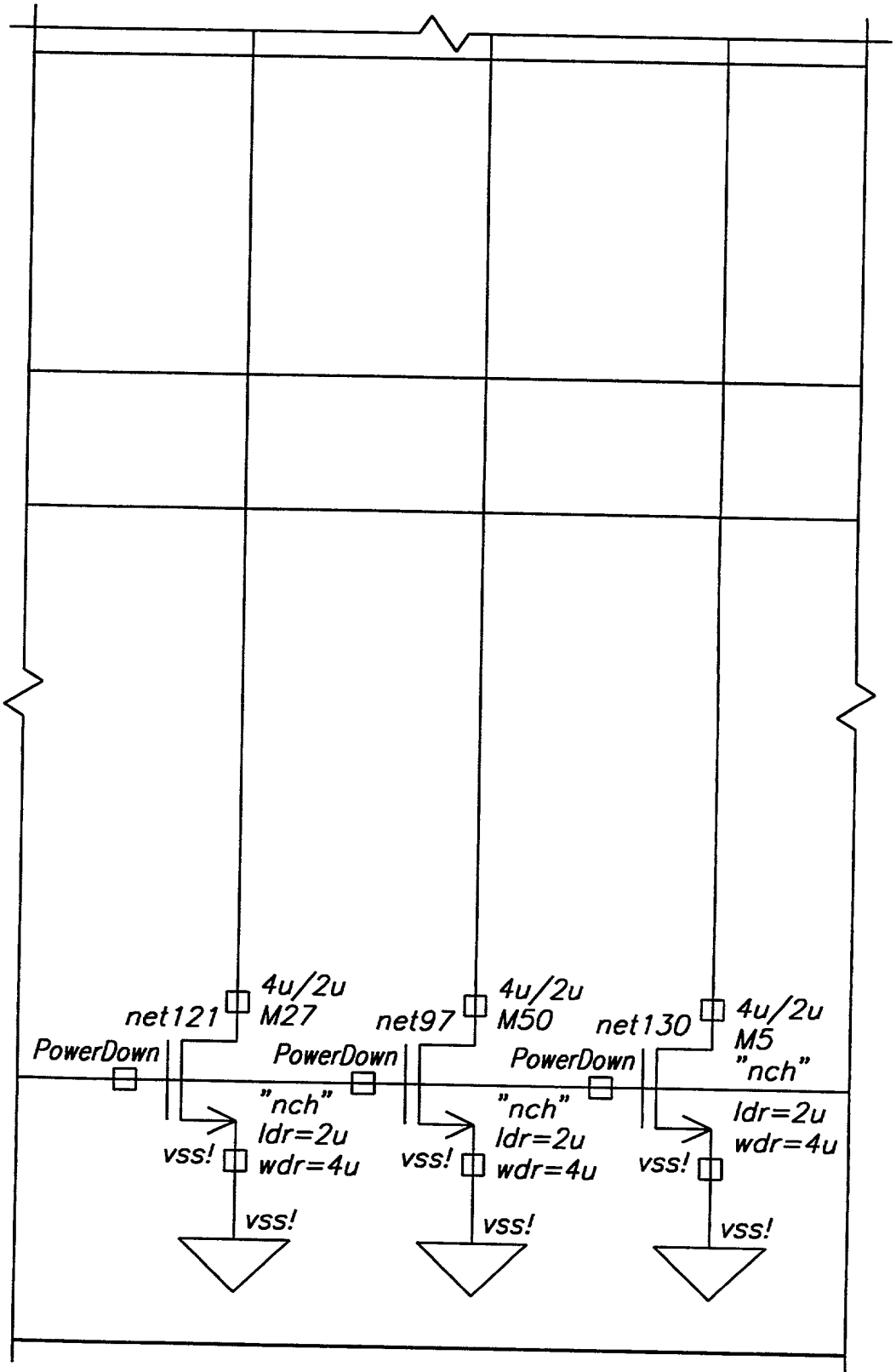


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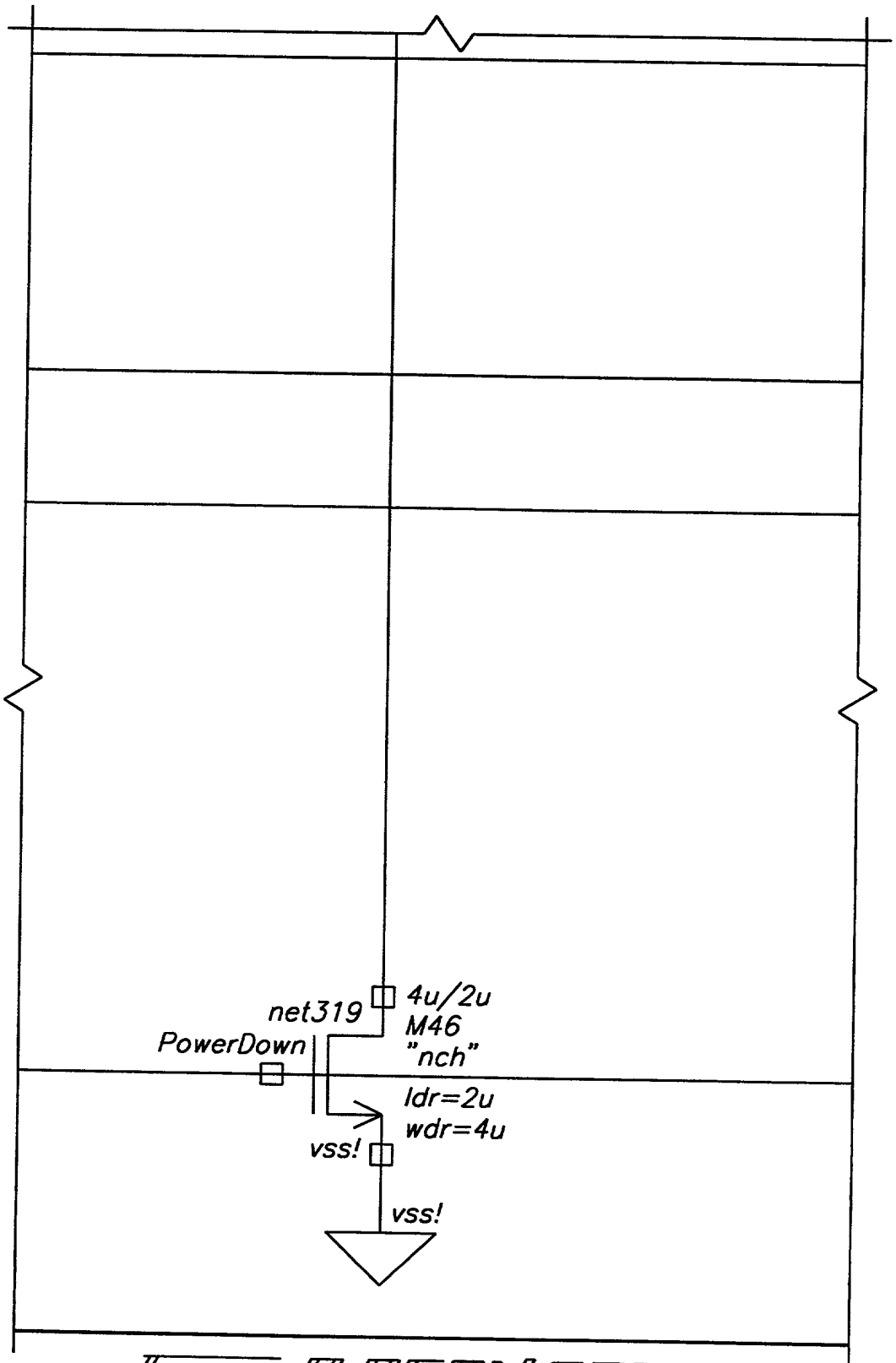


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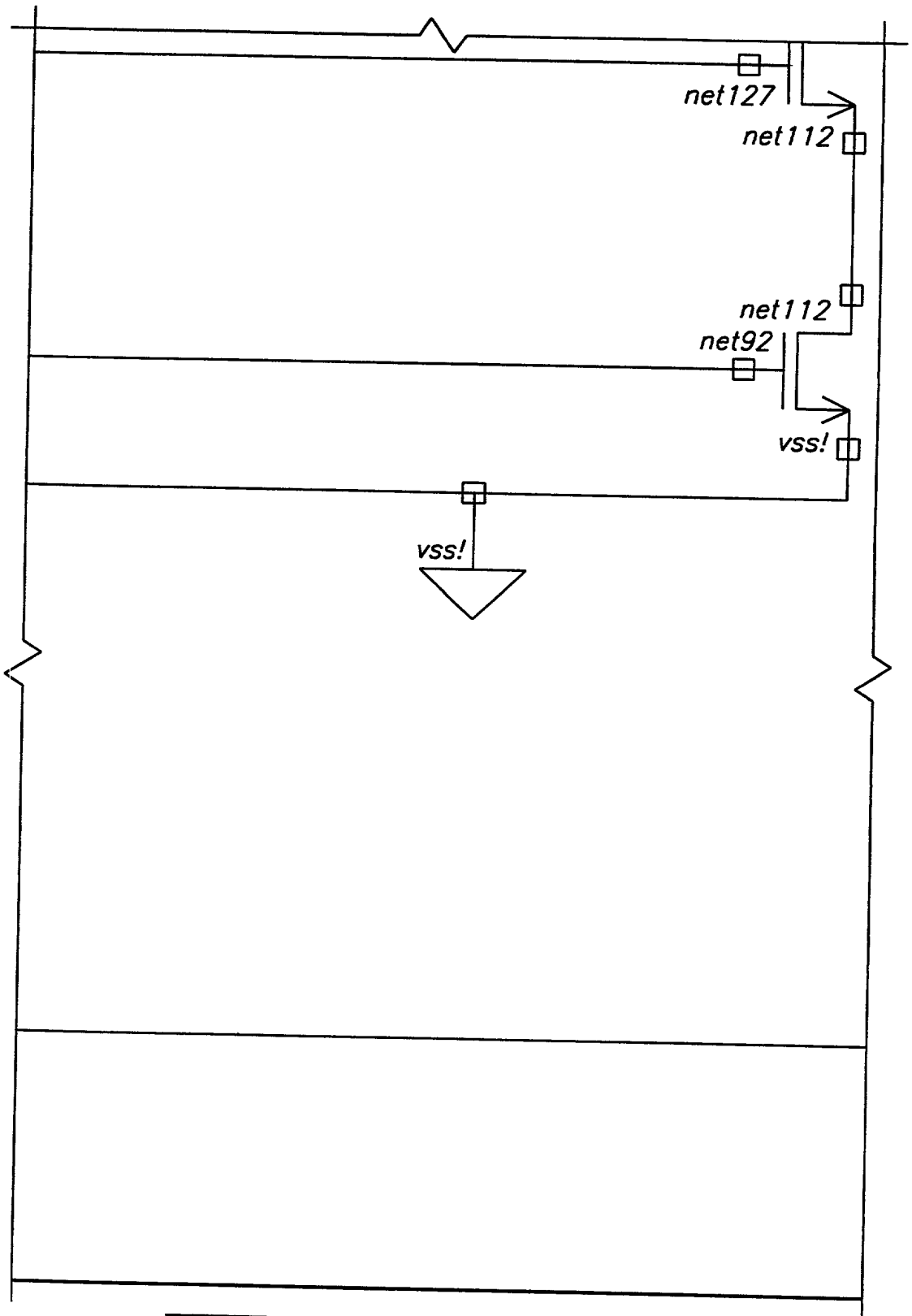


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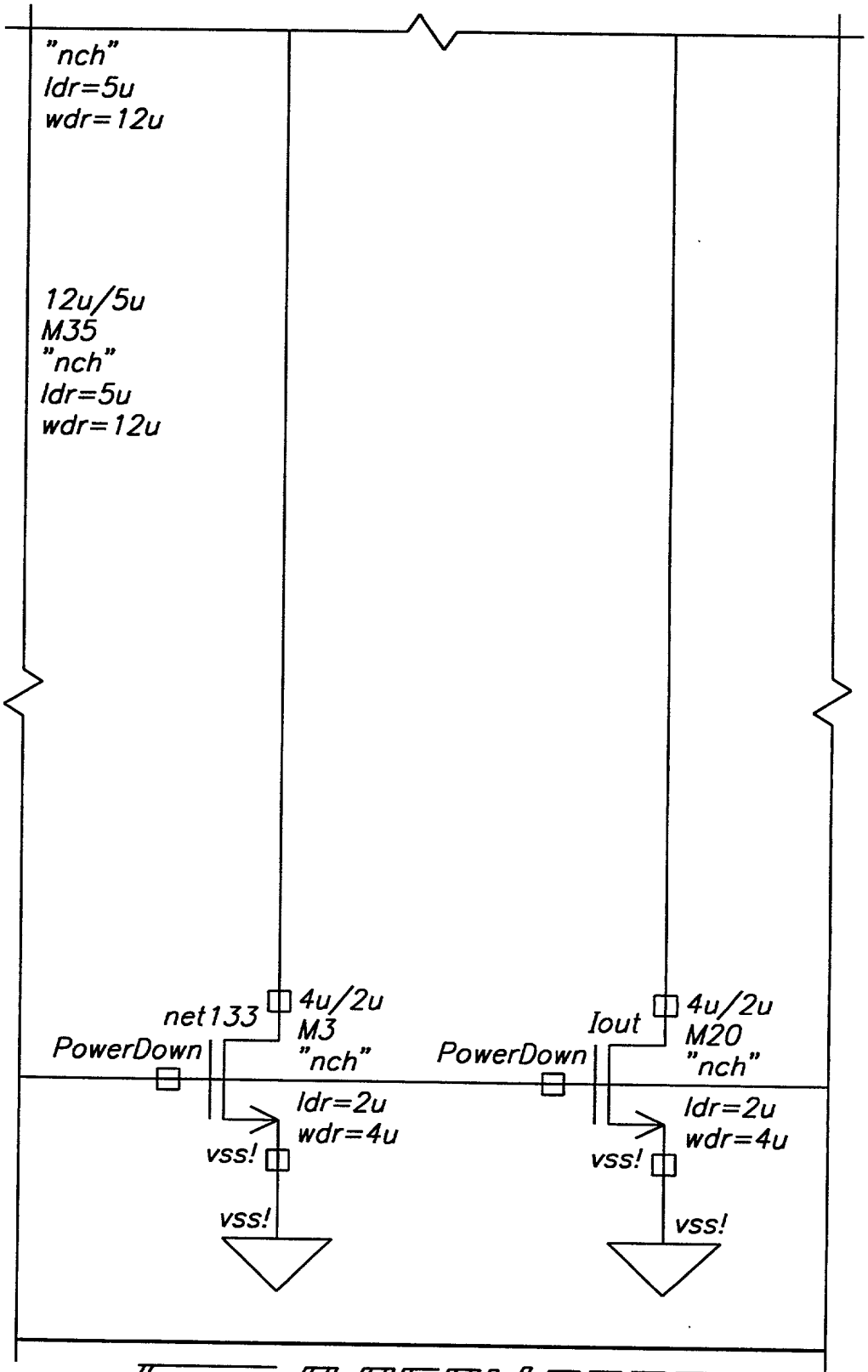


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1690/3273

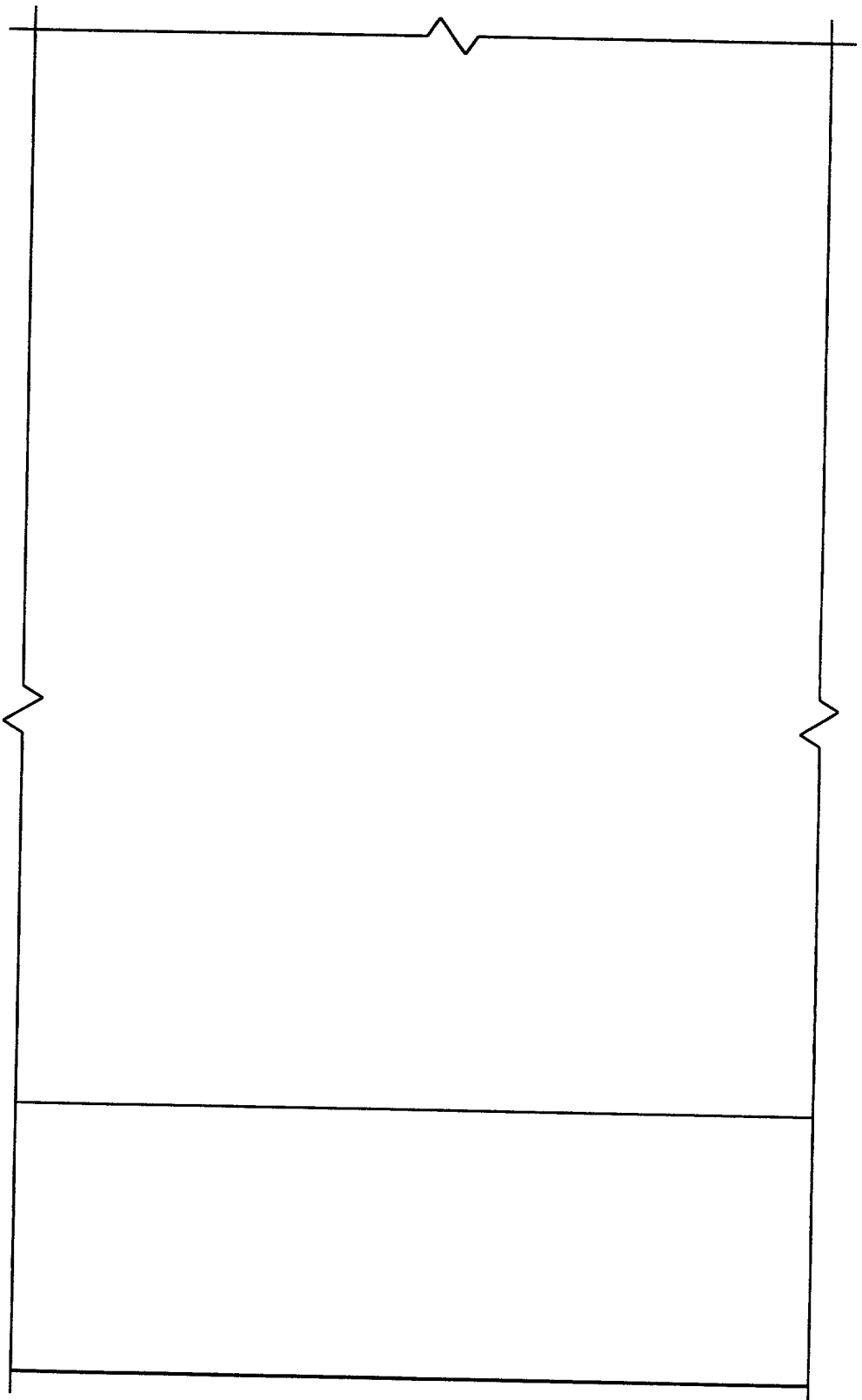


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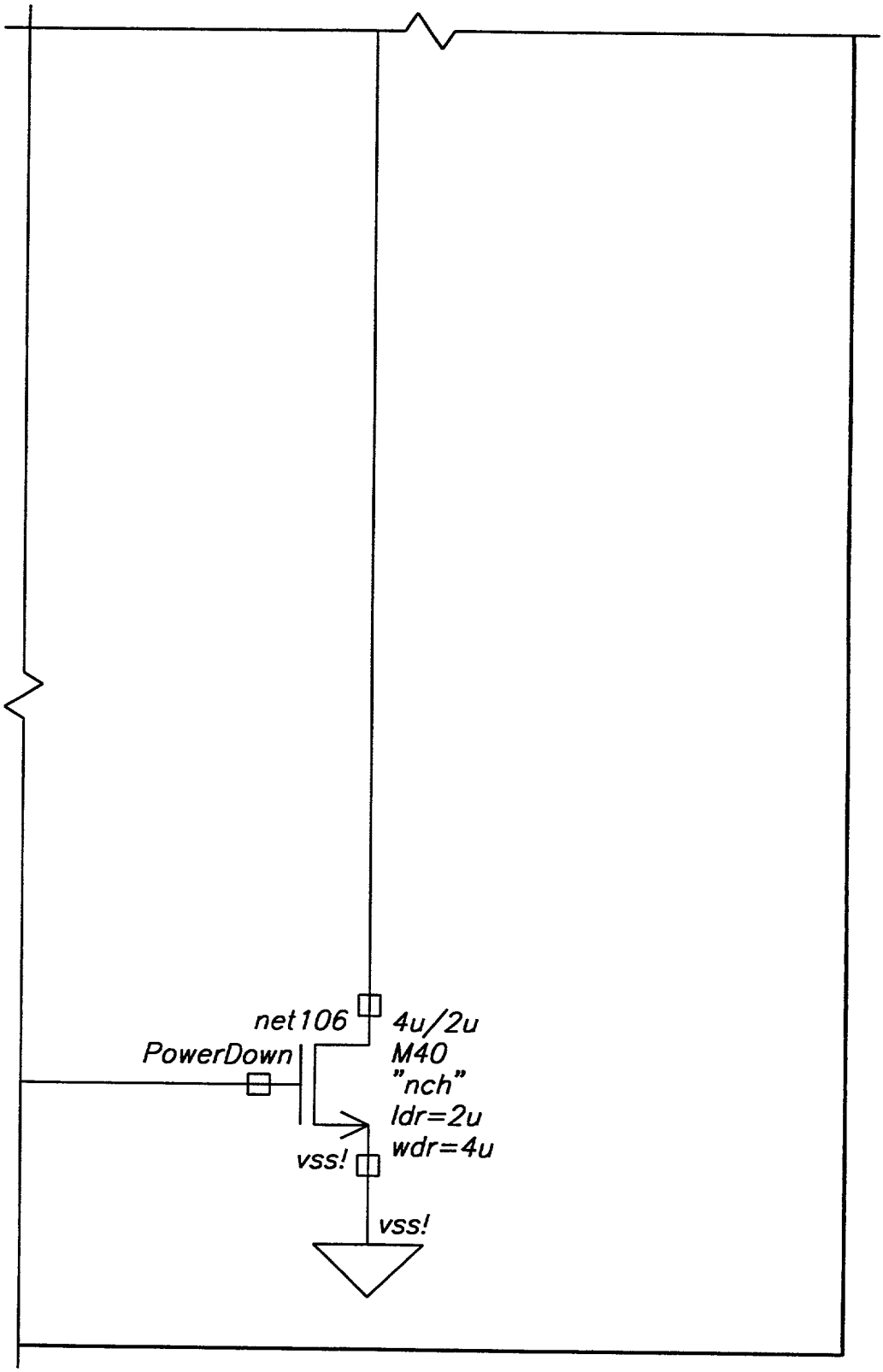
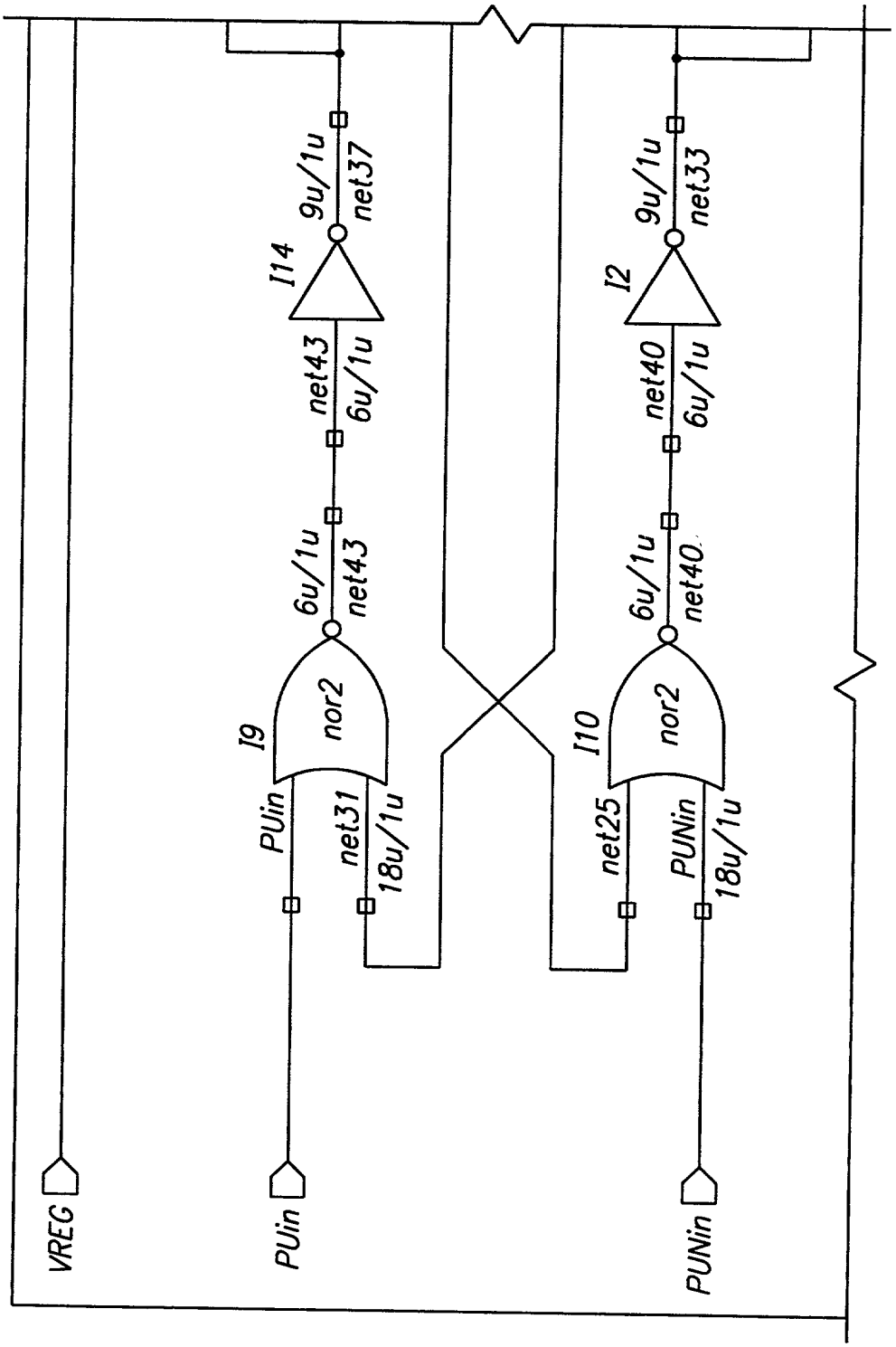


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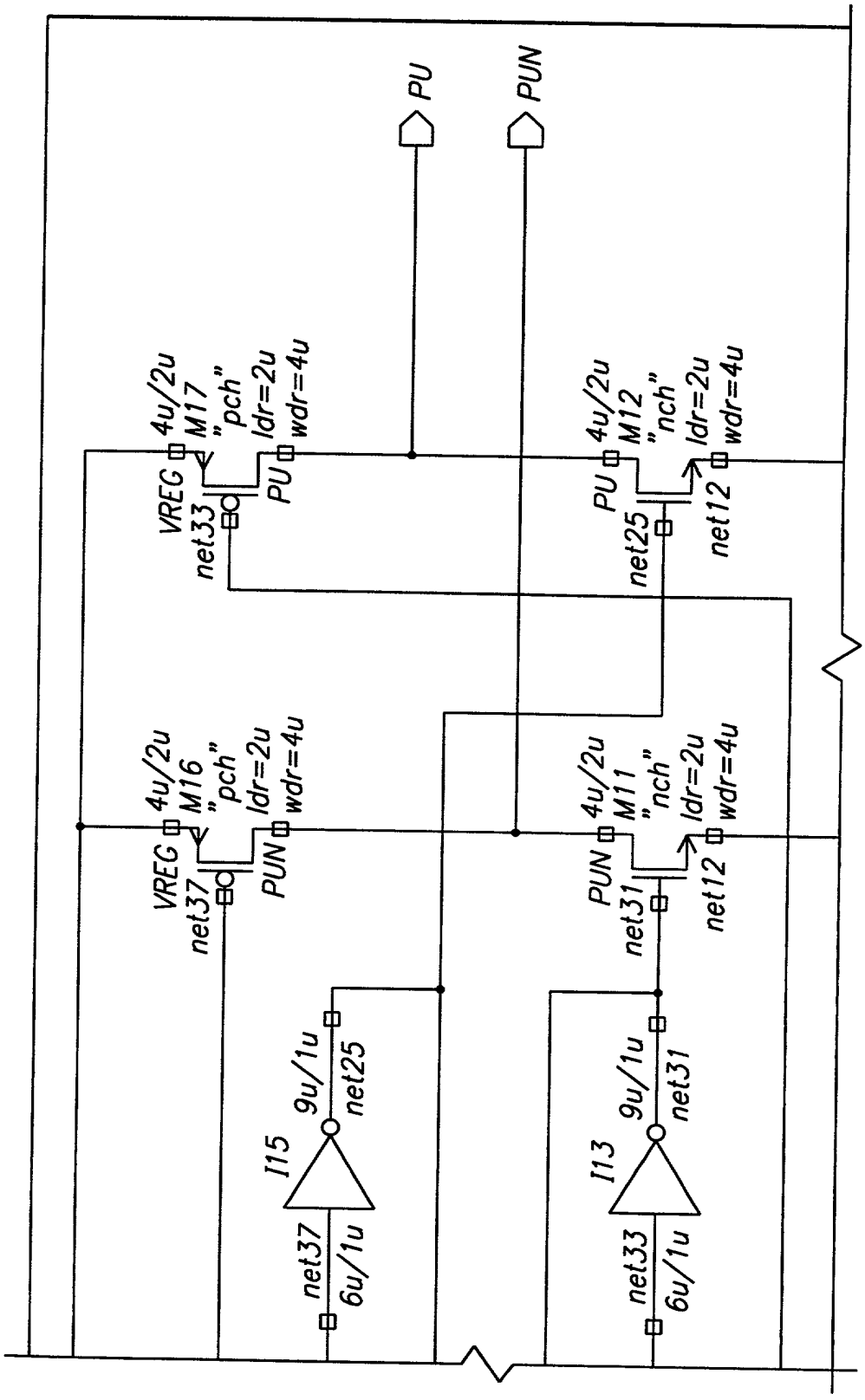
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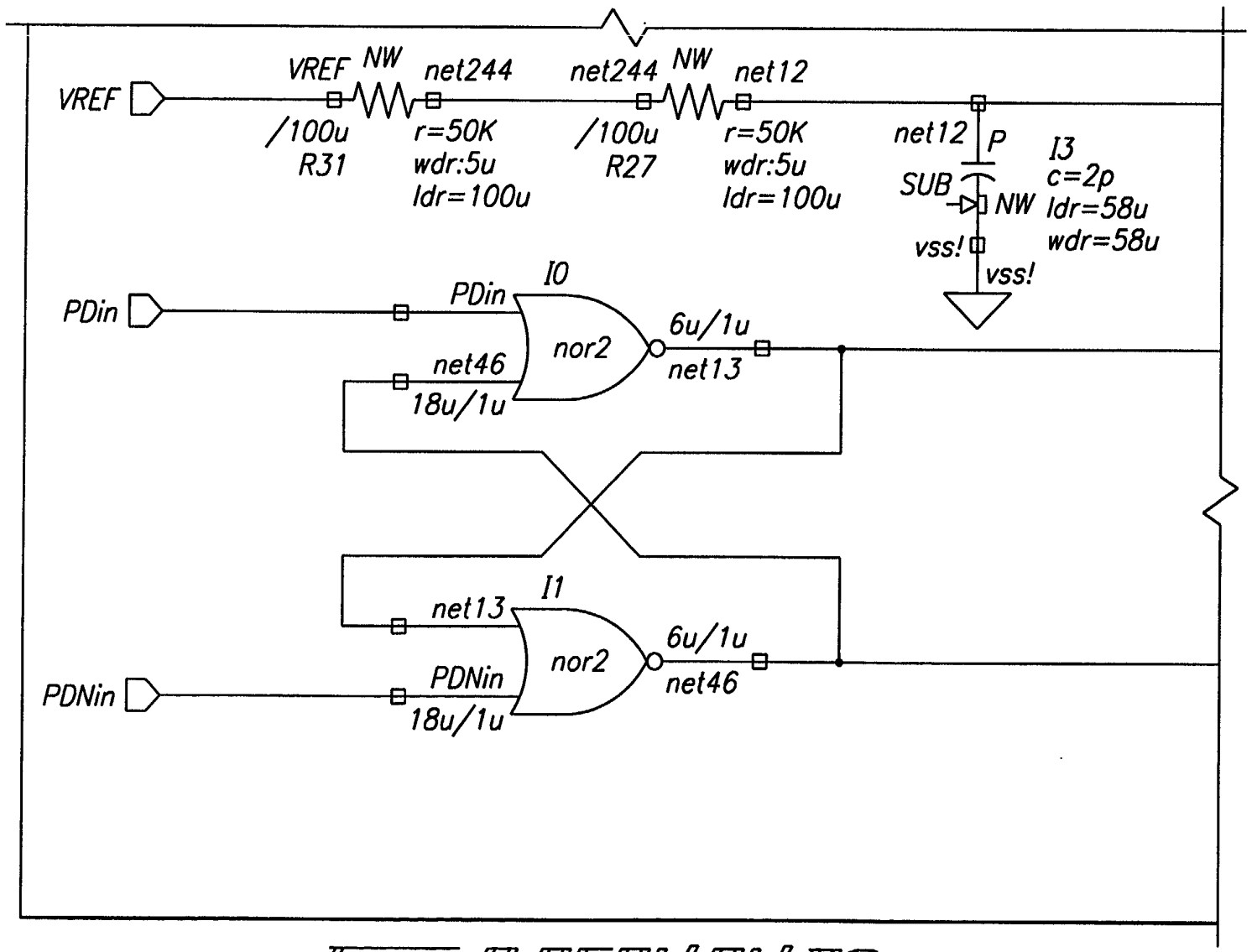
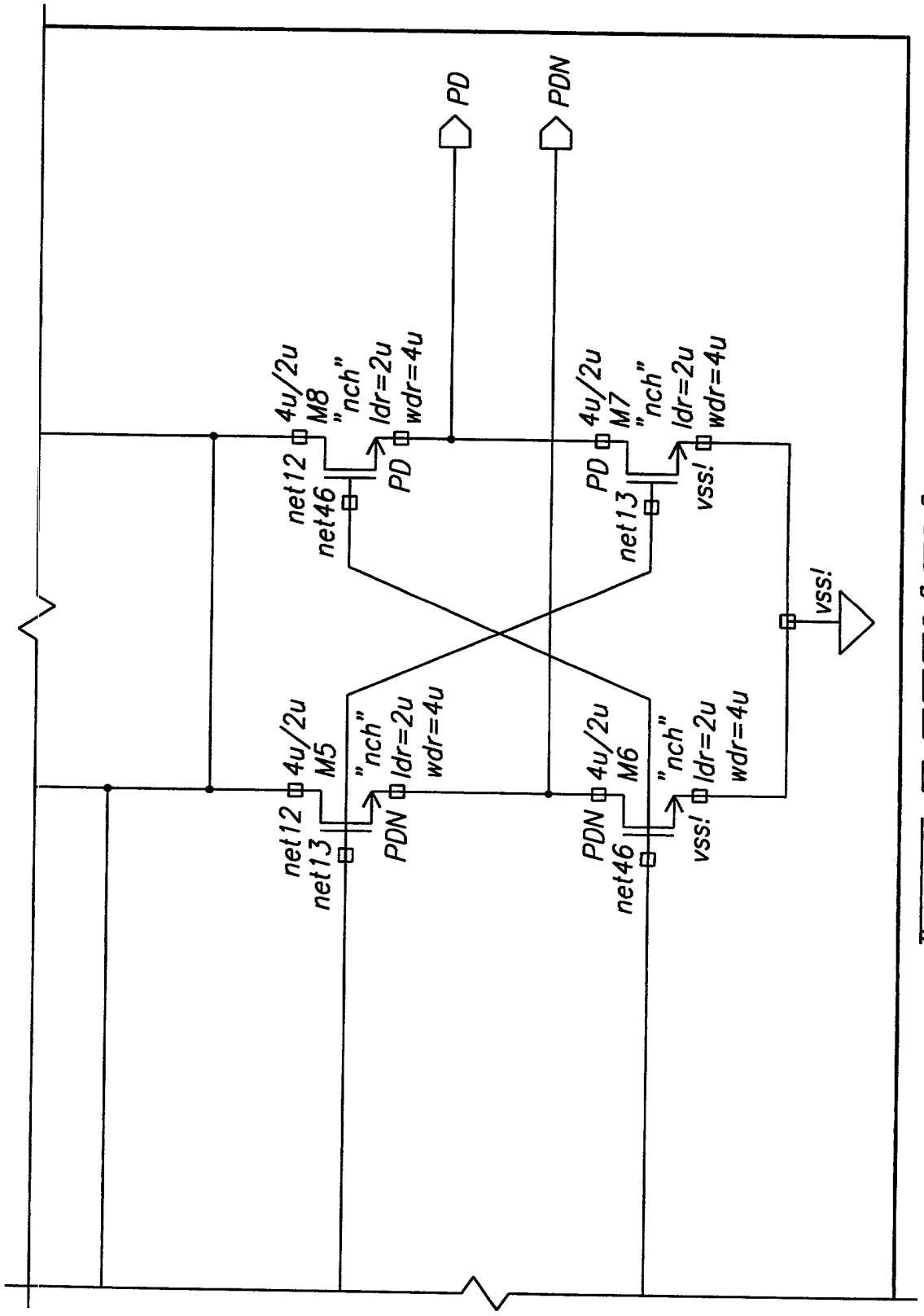


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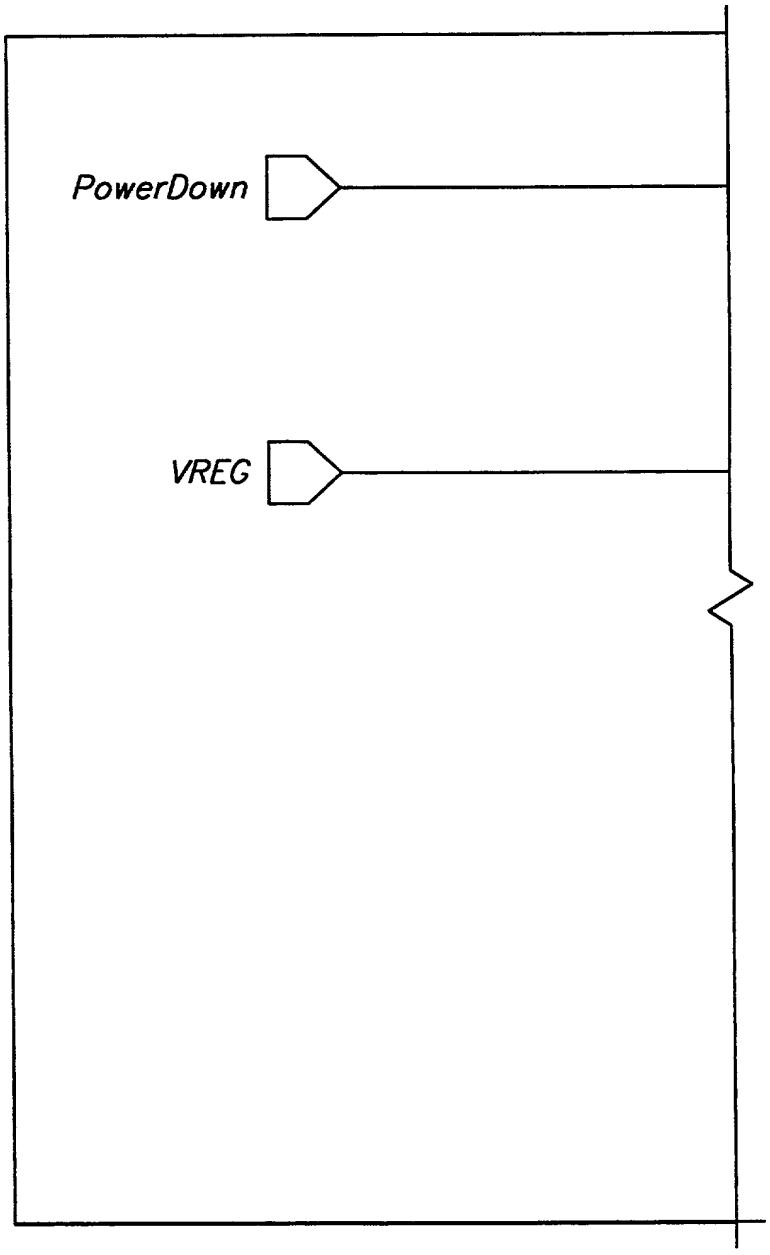


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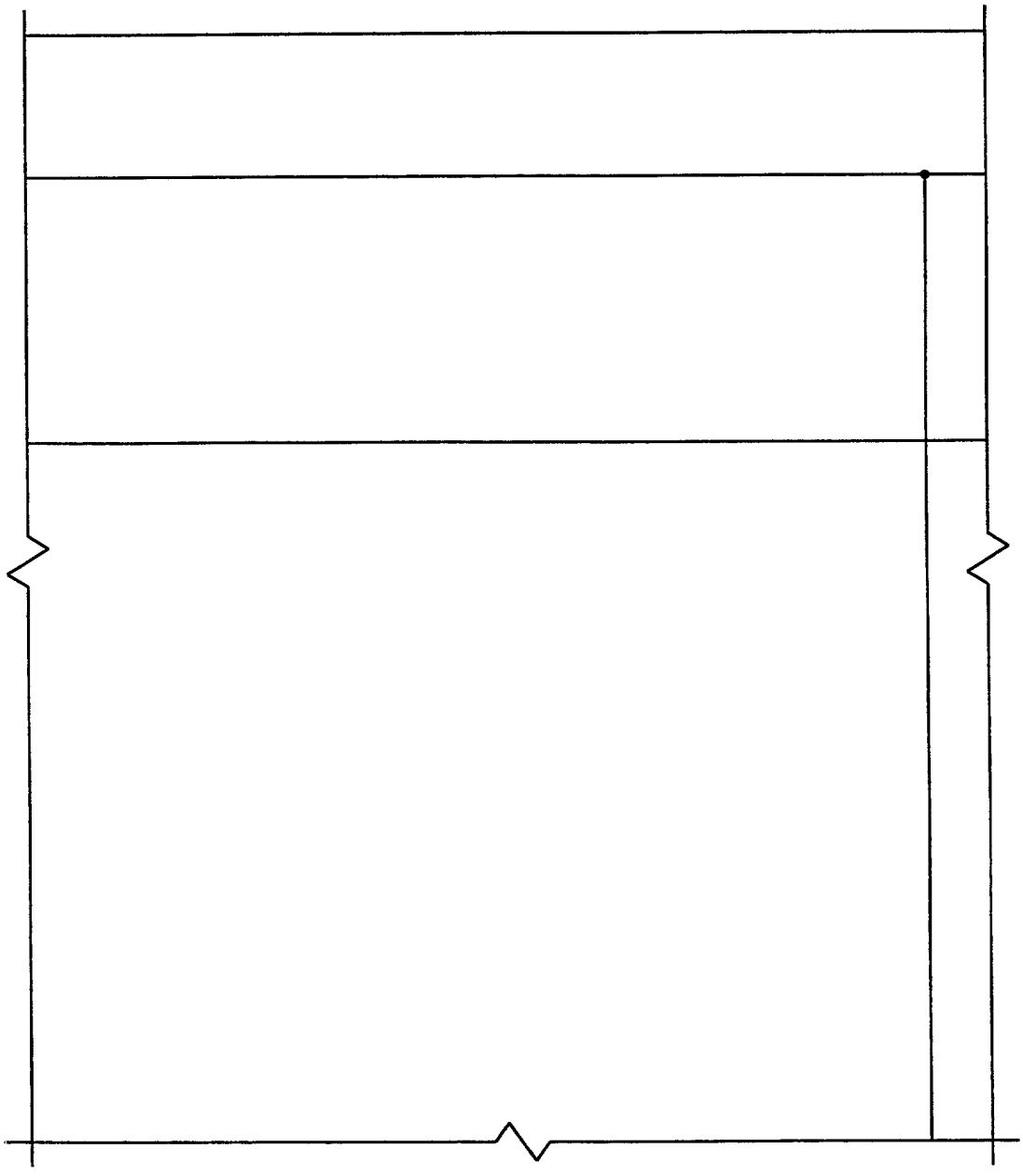
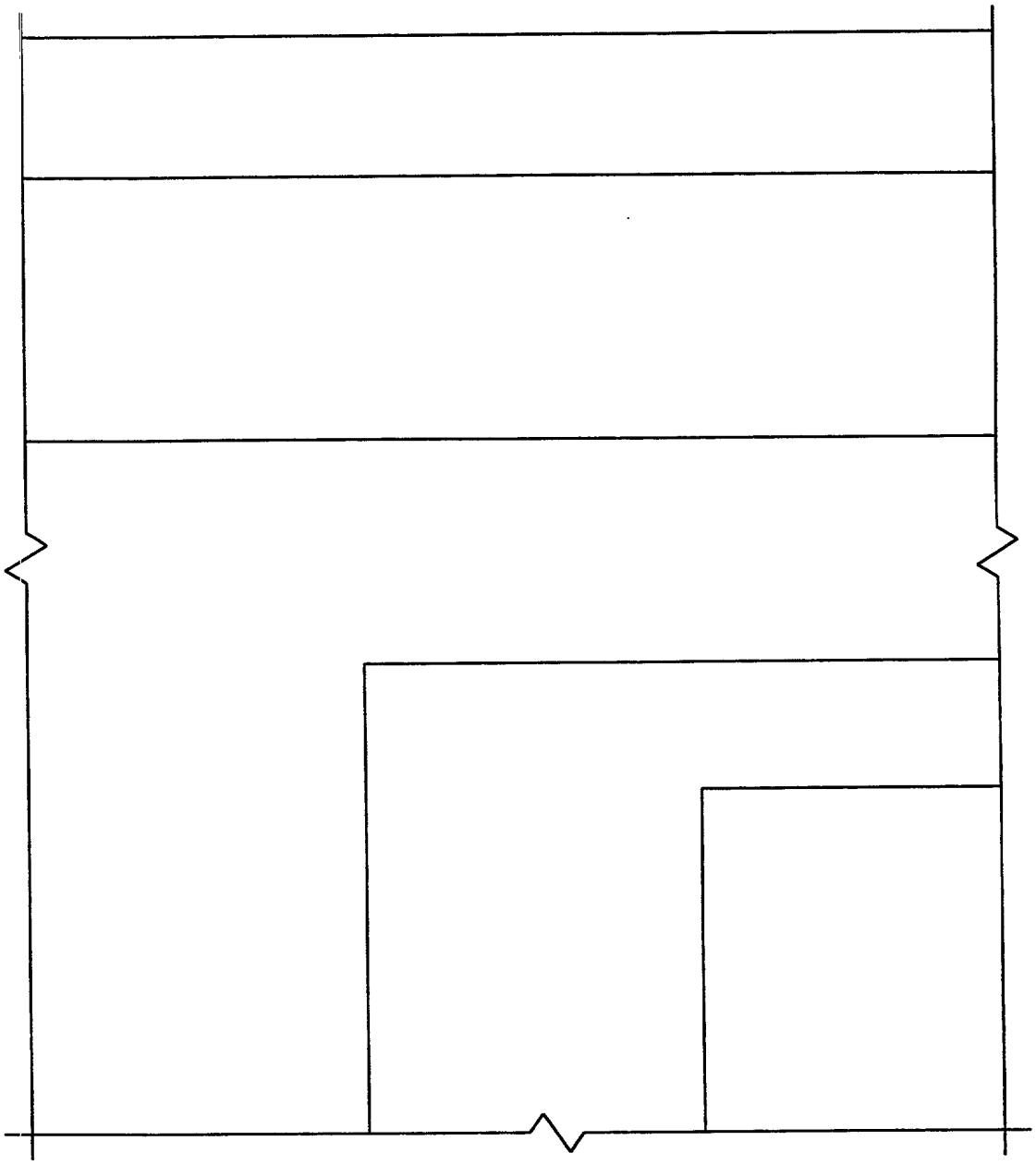


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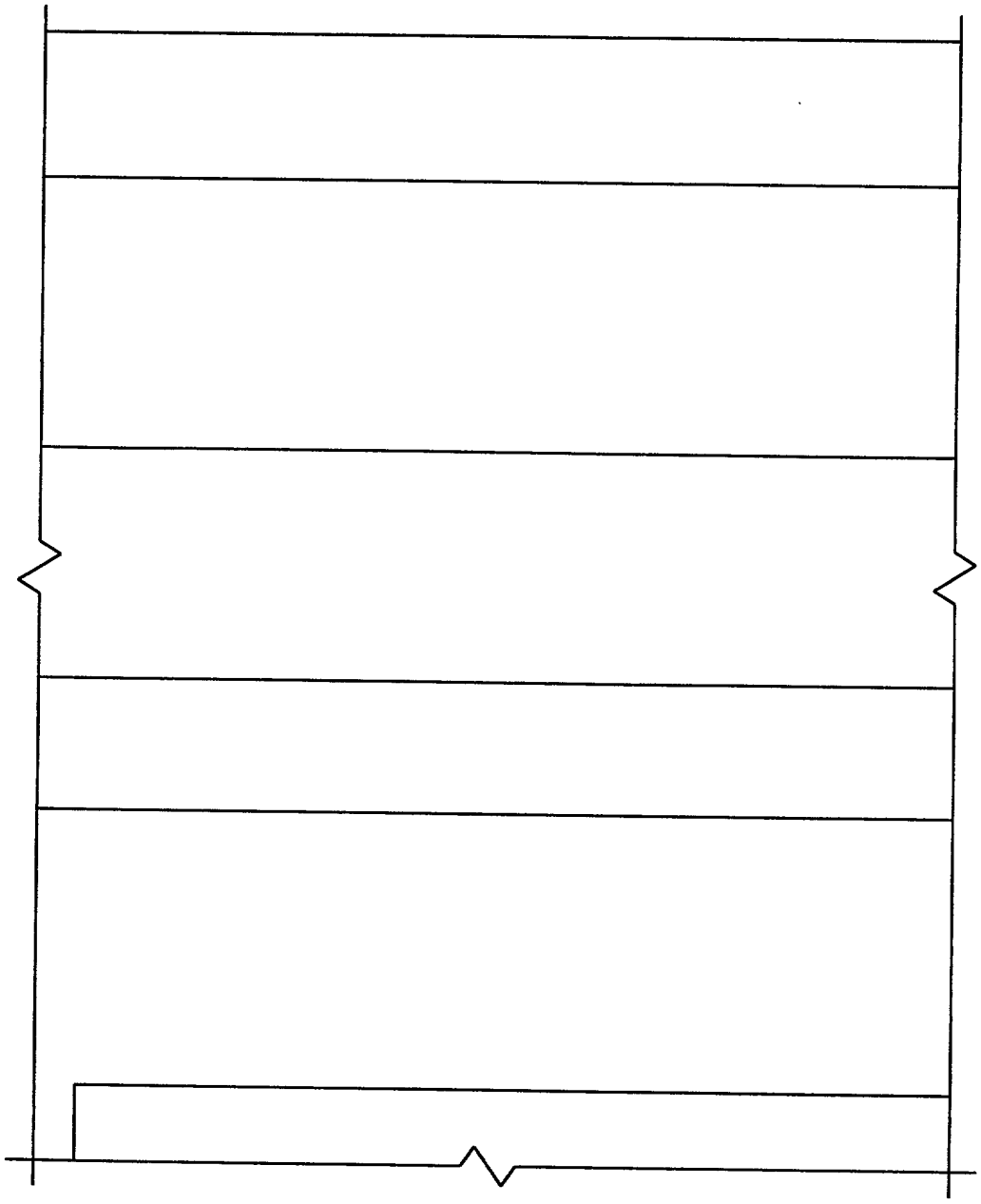


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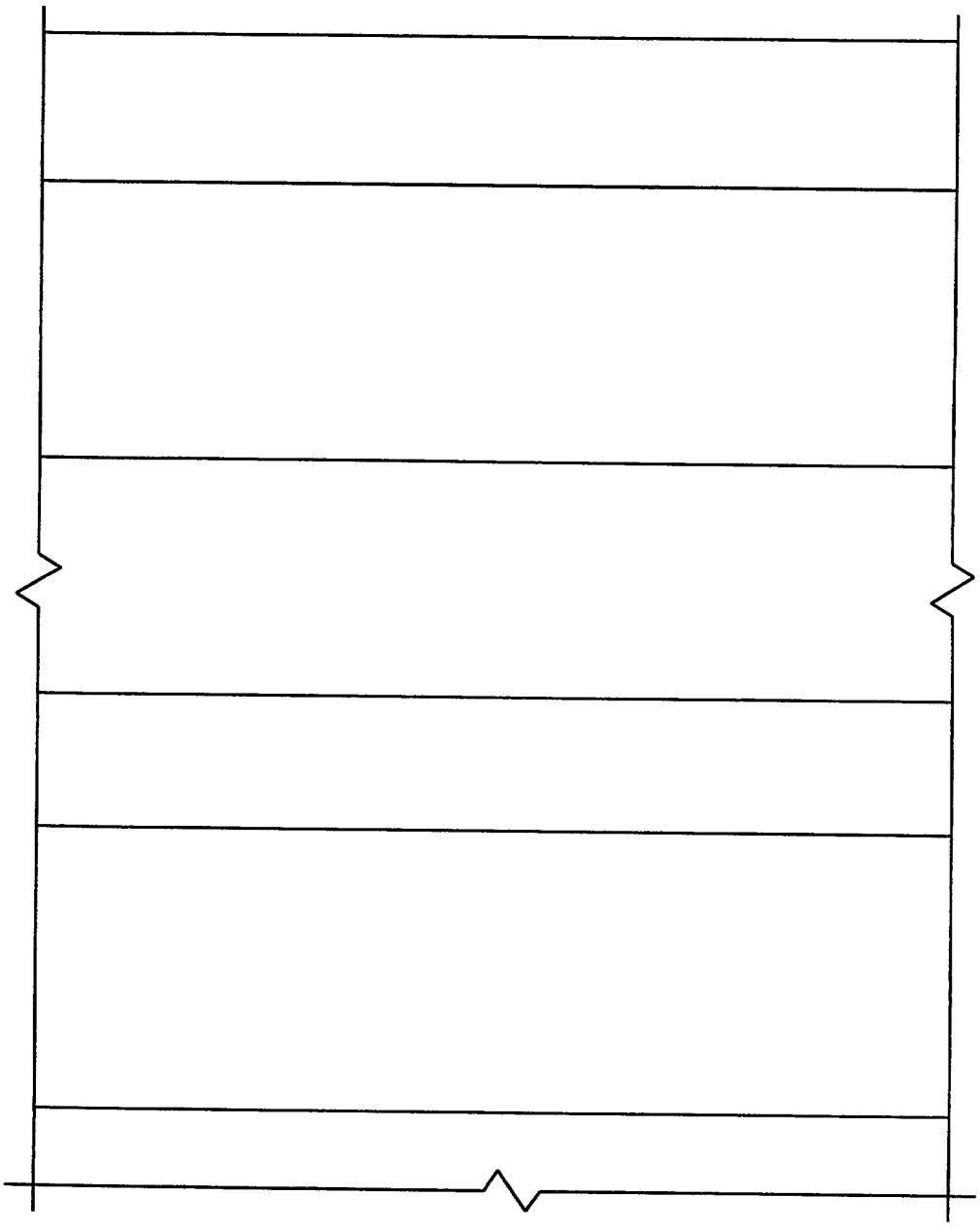


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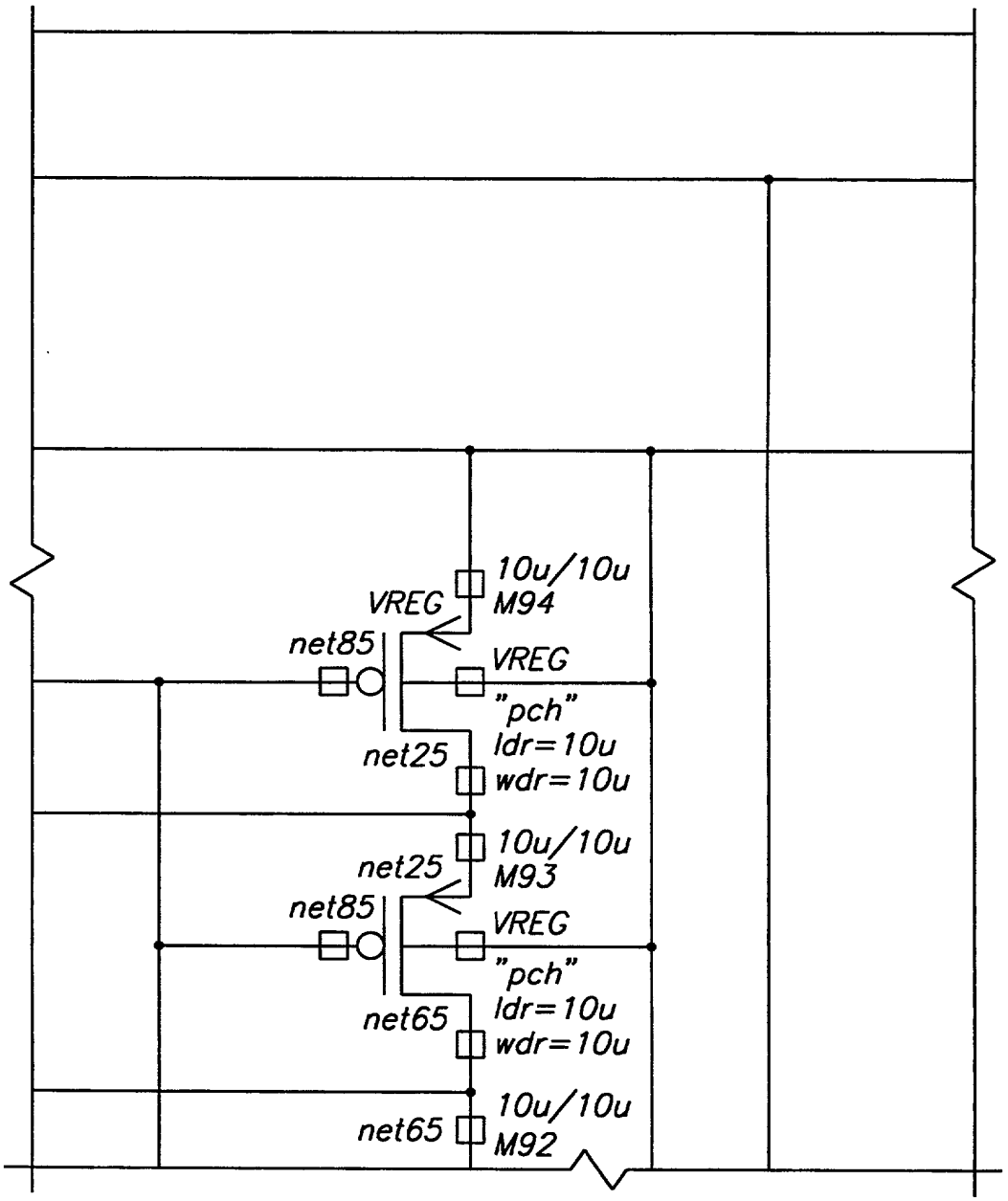


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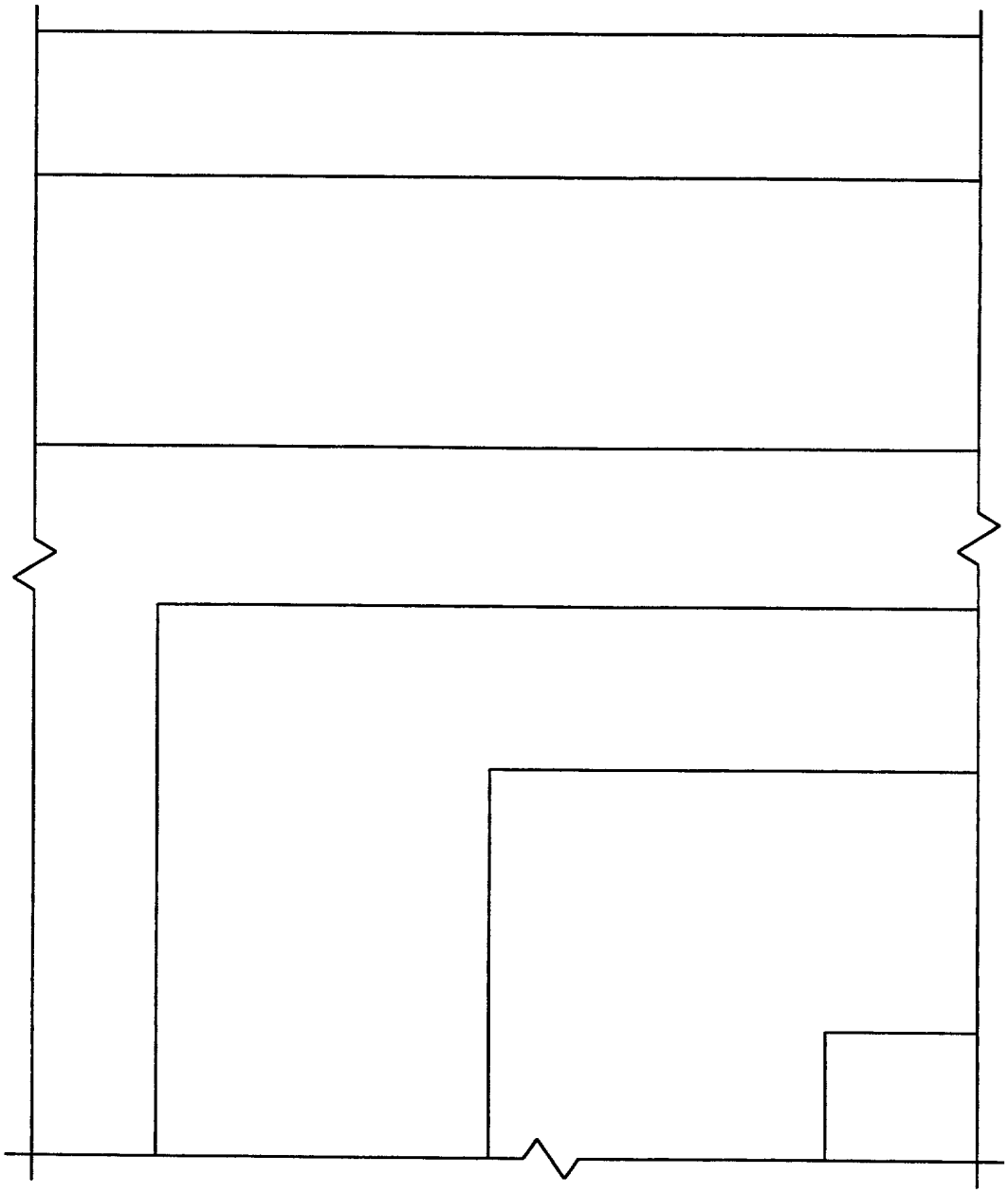


Fig 8.0504050A6

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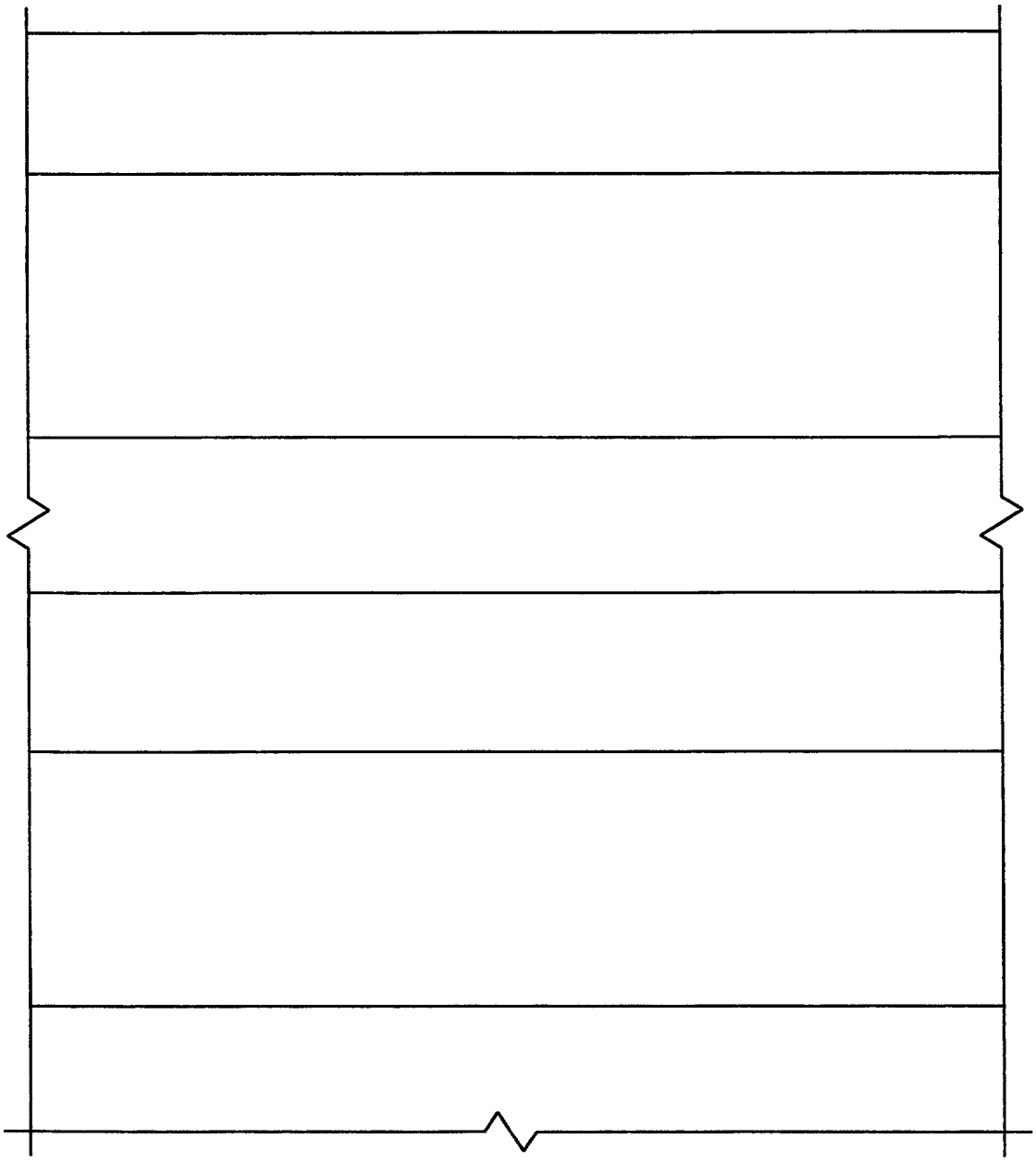


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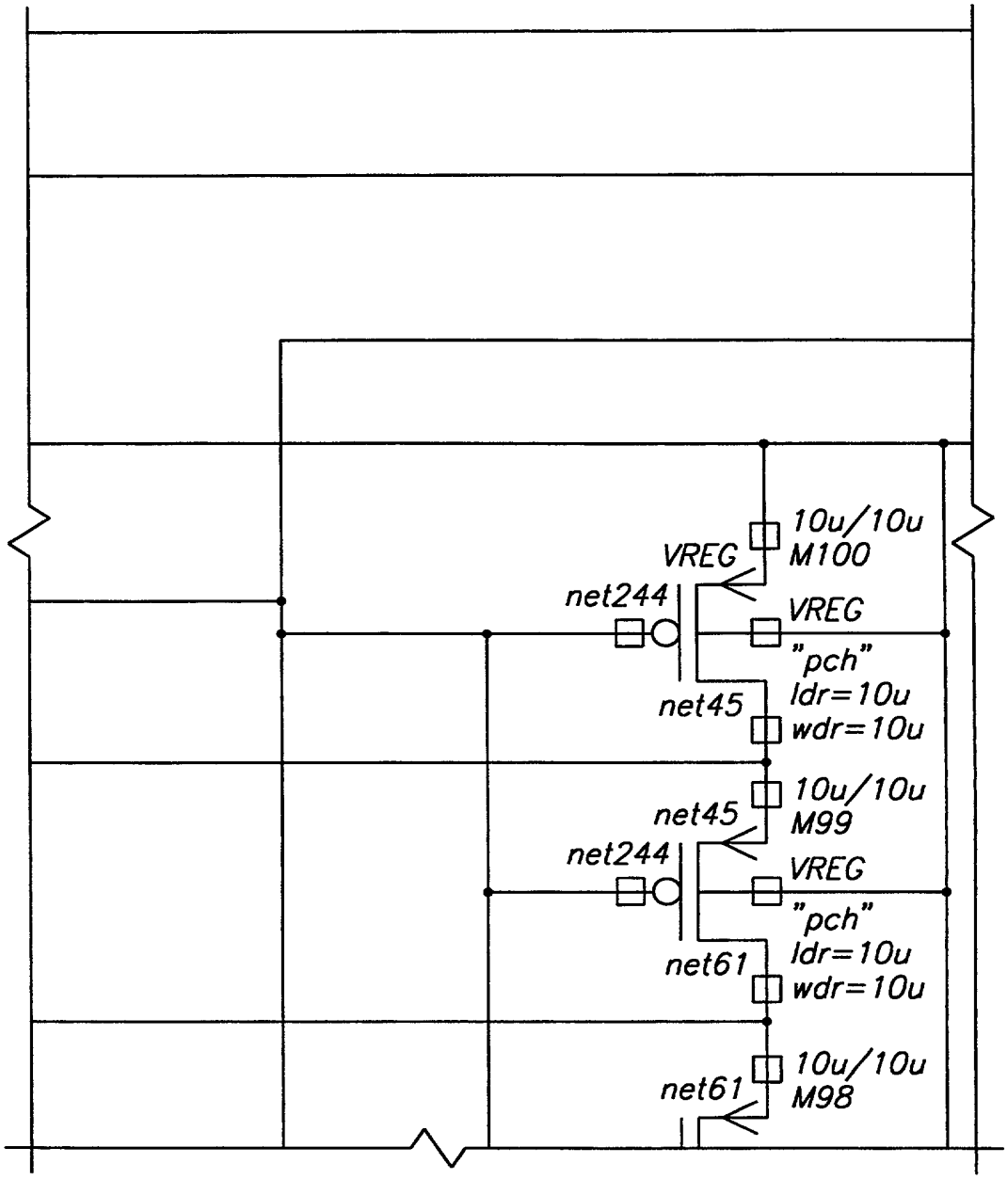


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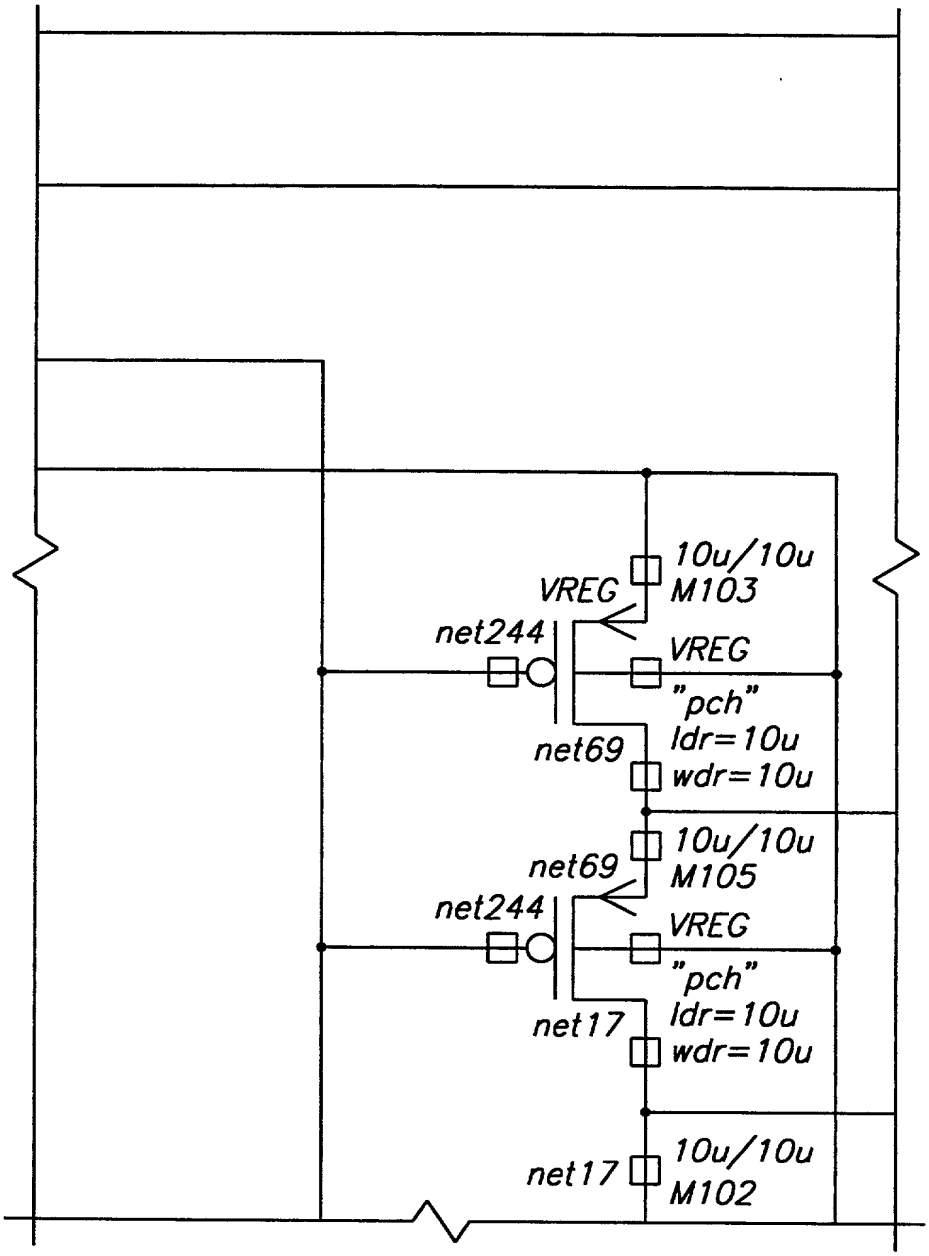


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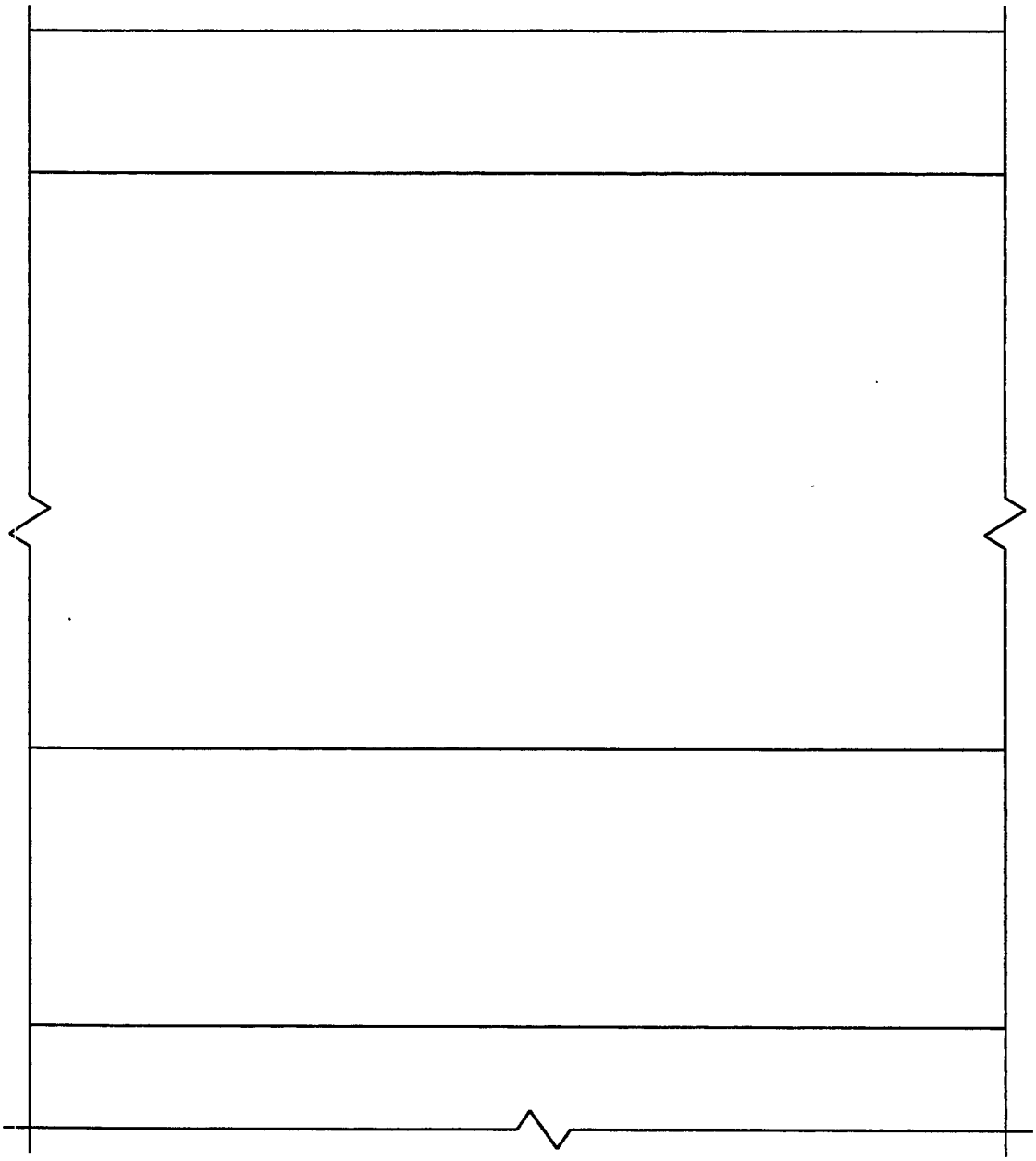


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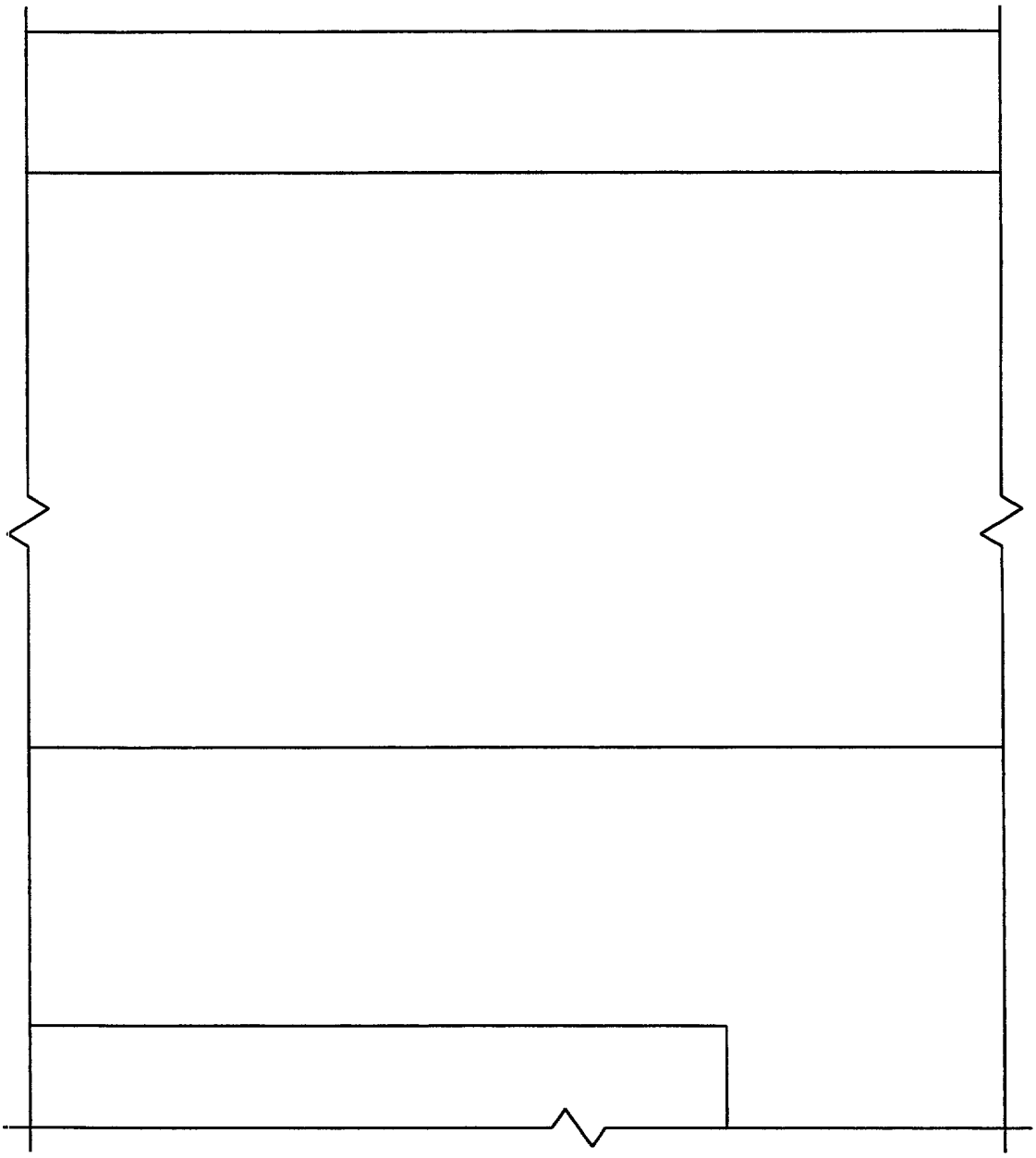
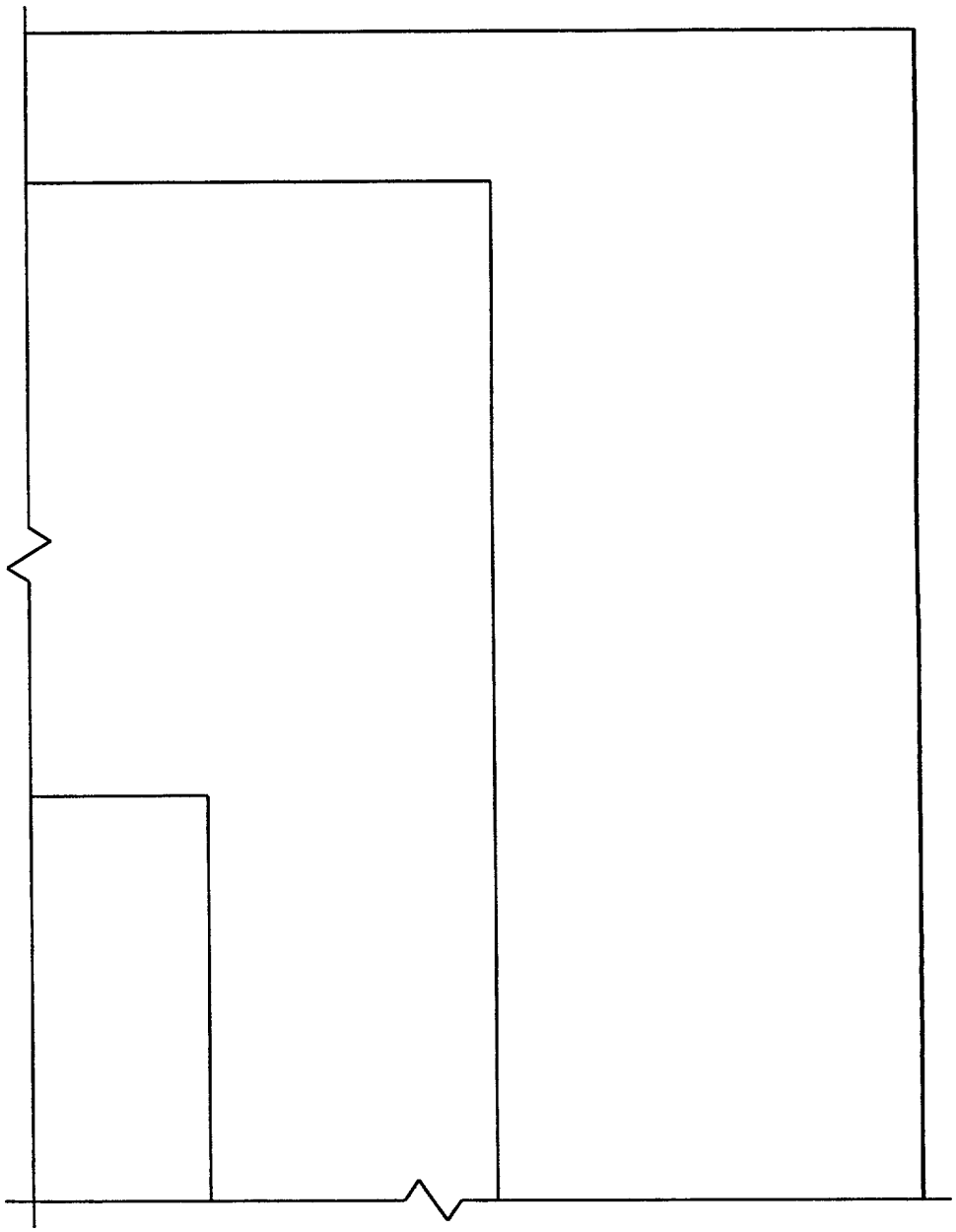


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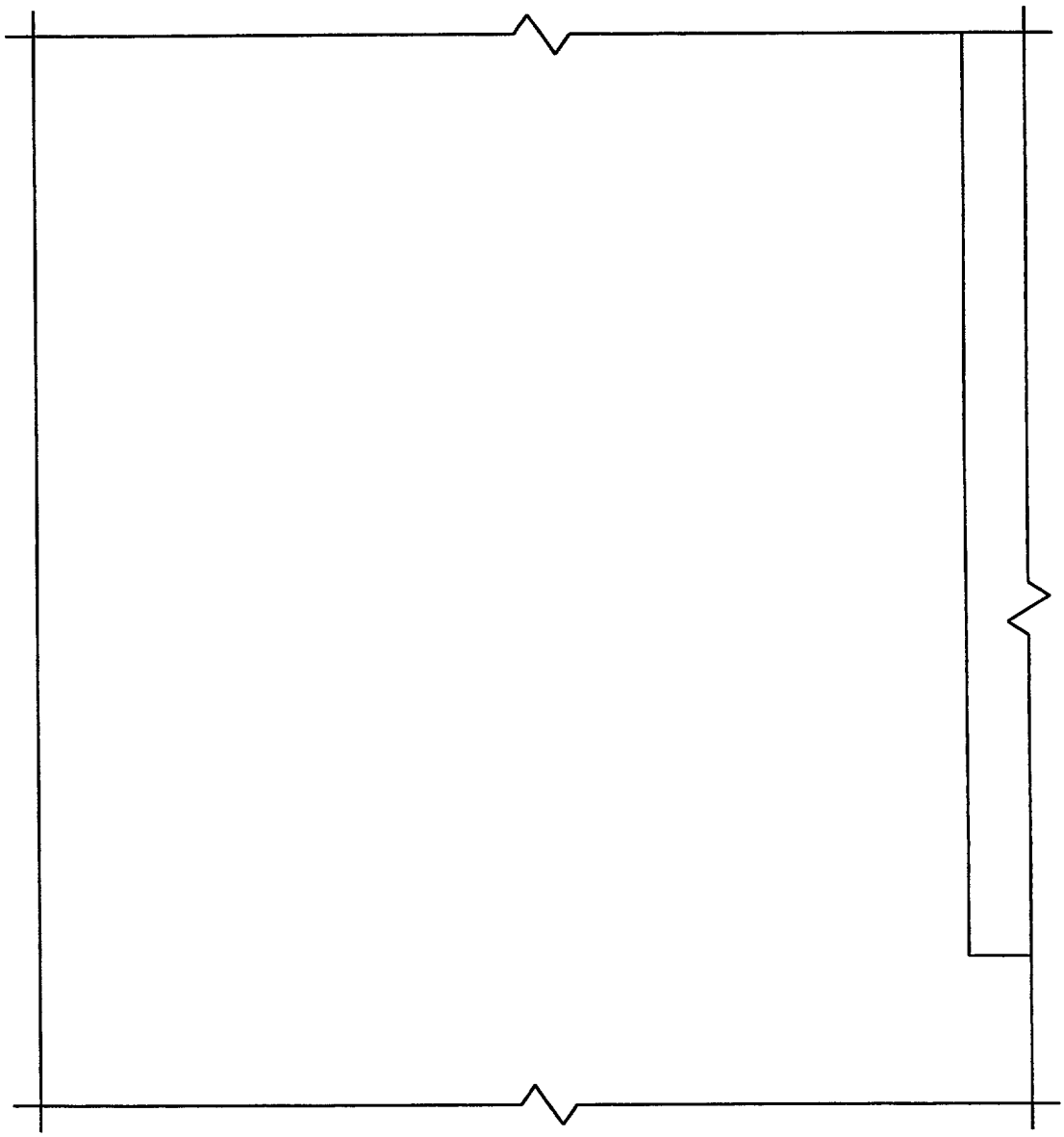
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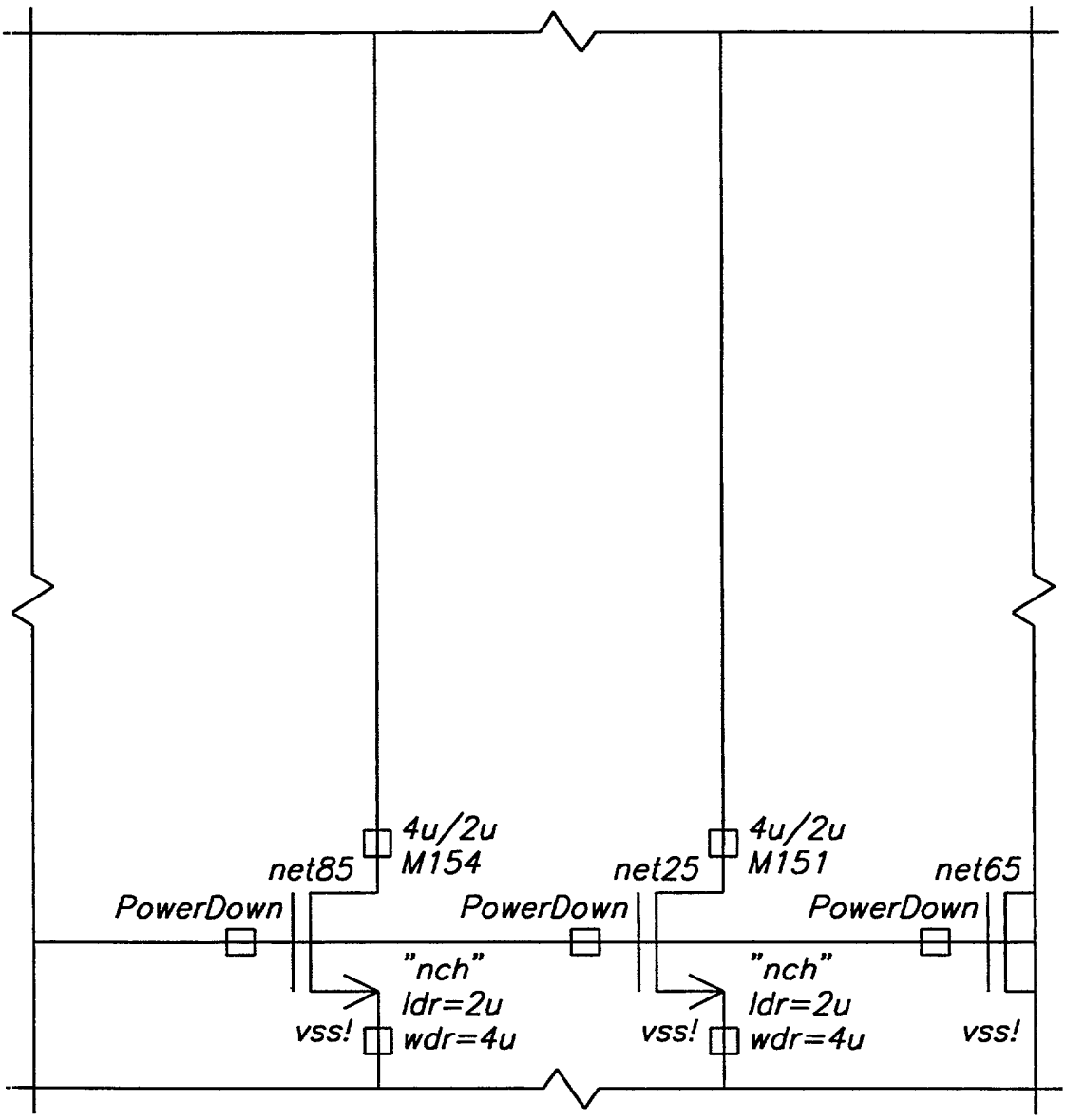


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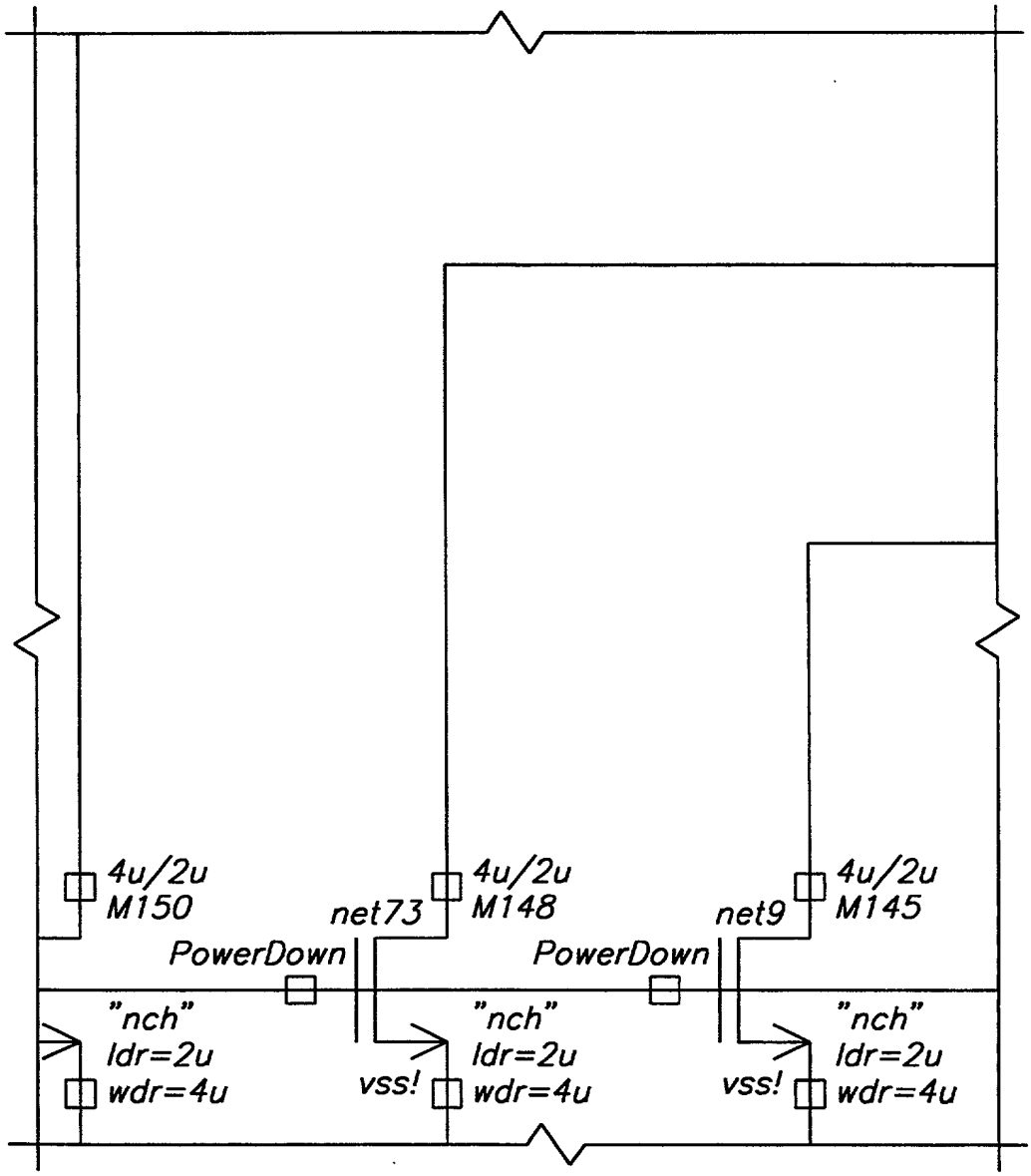


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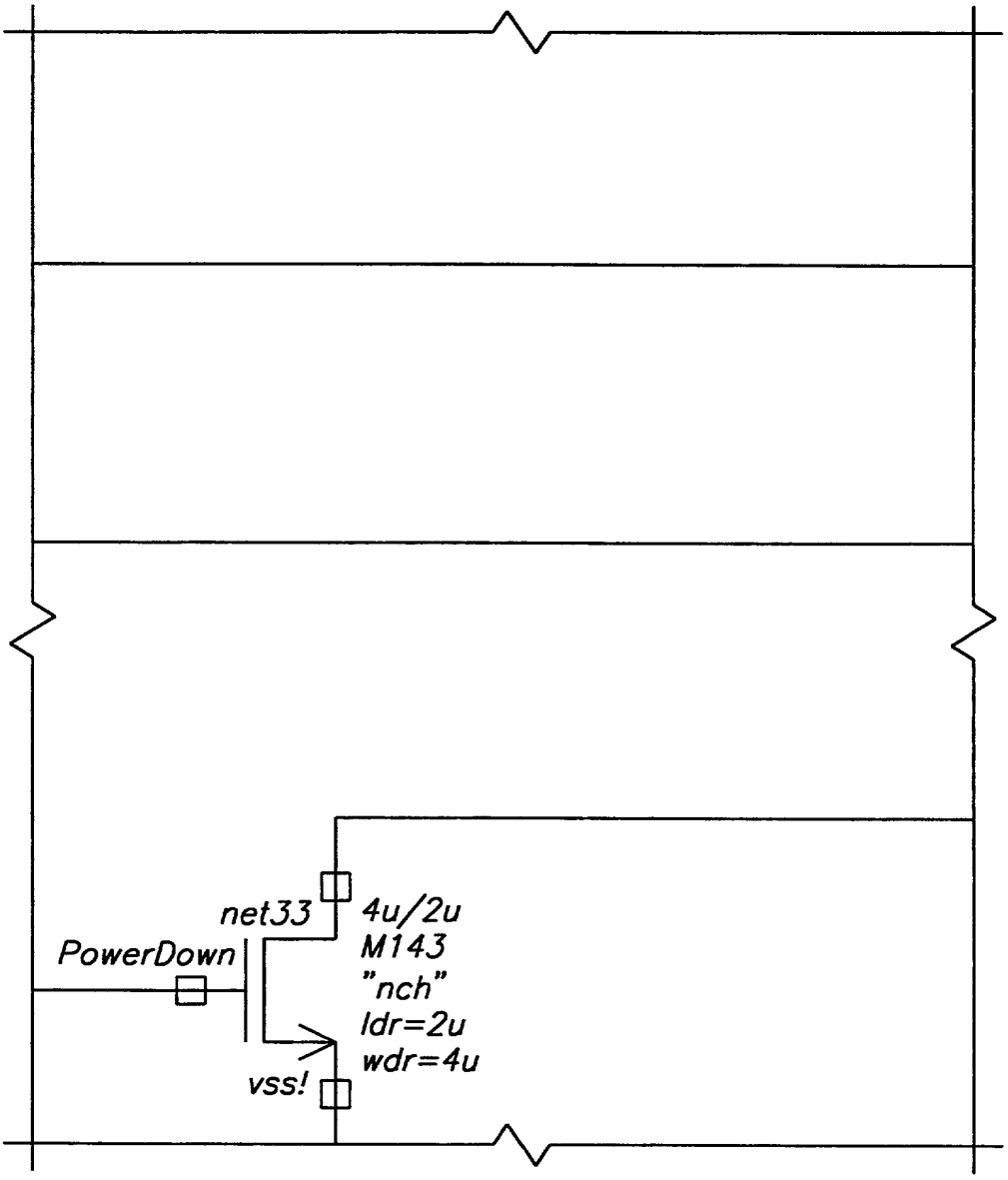


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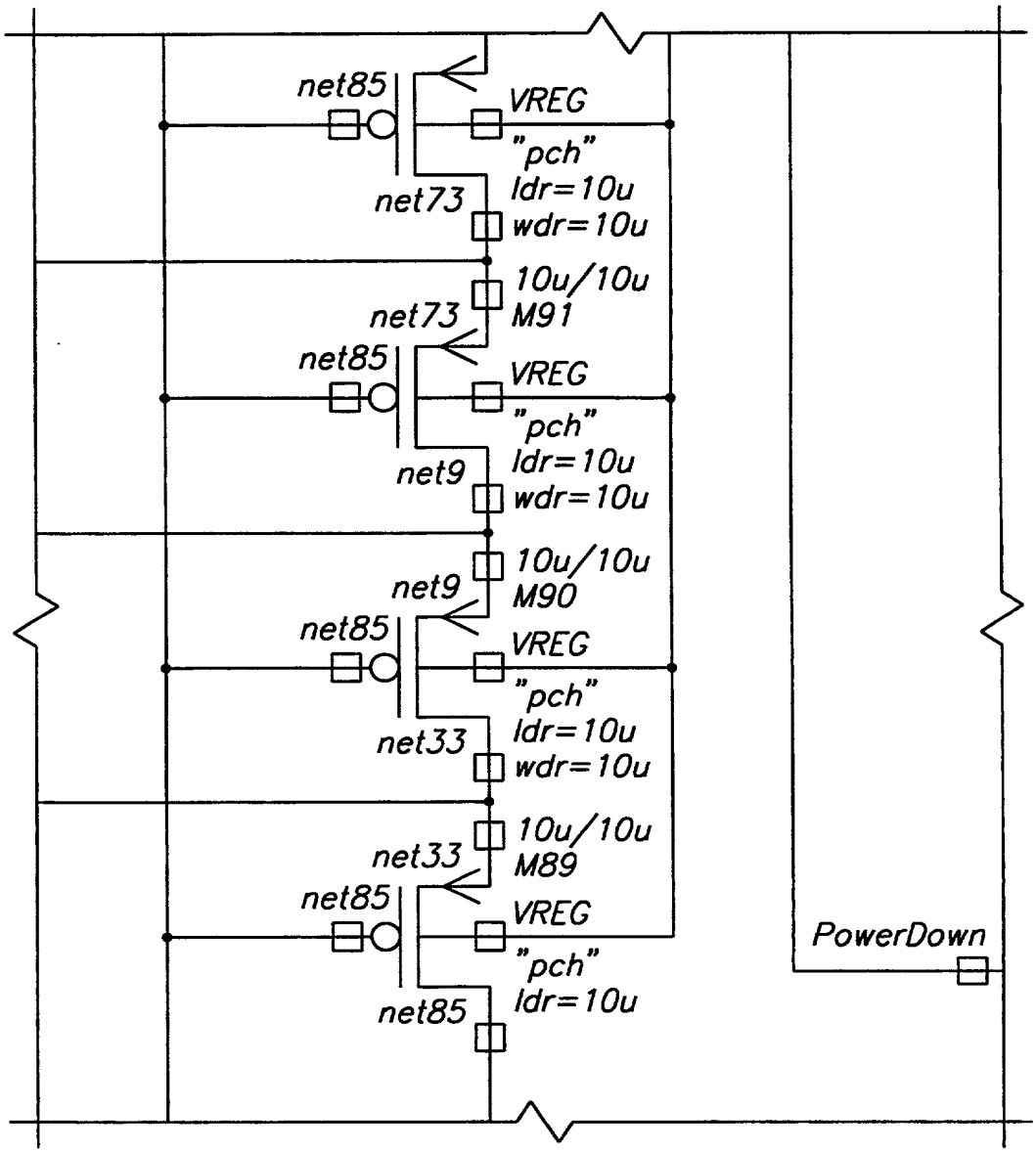


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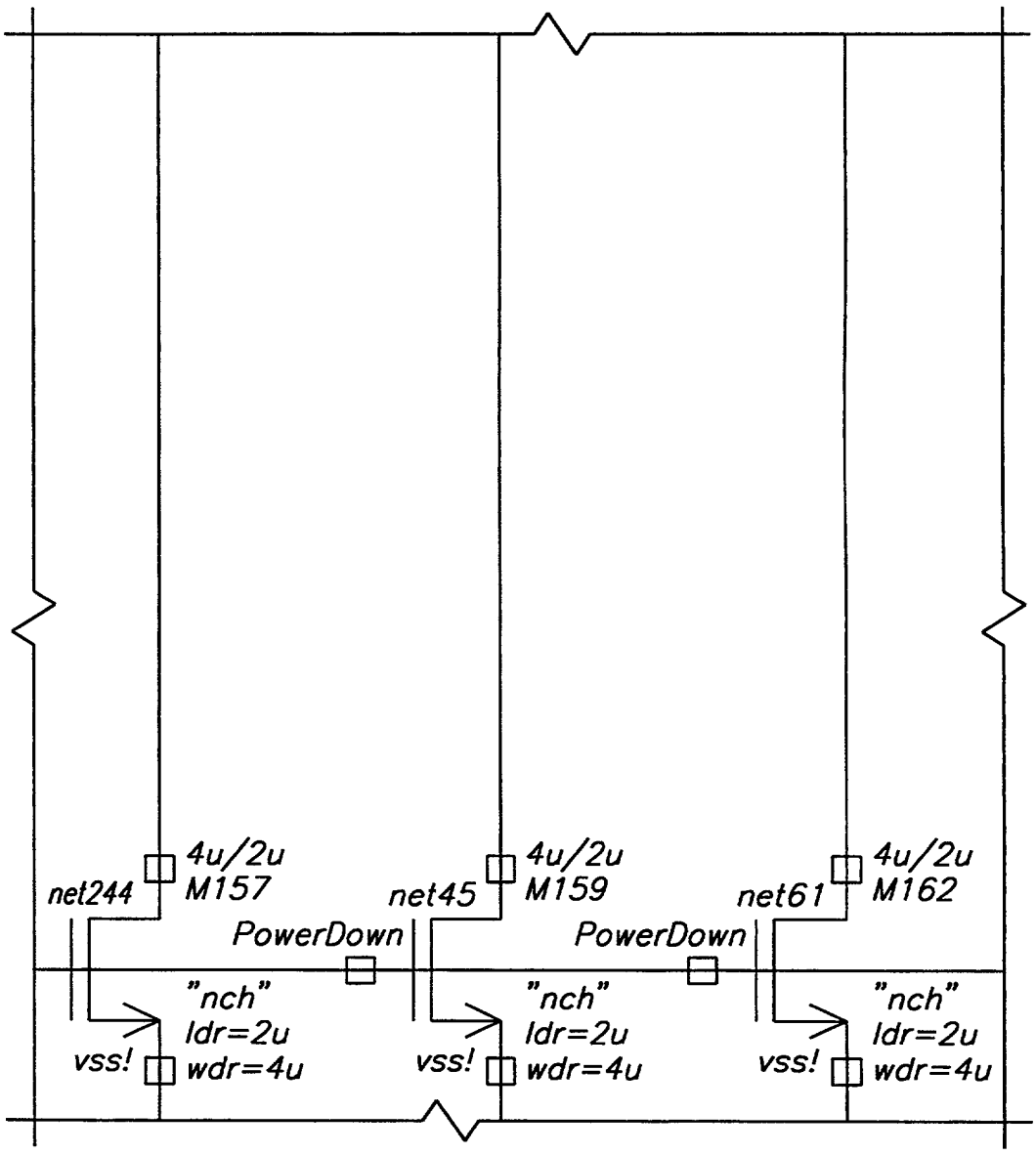


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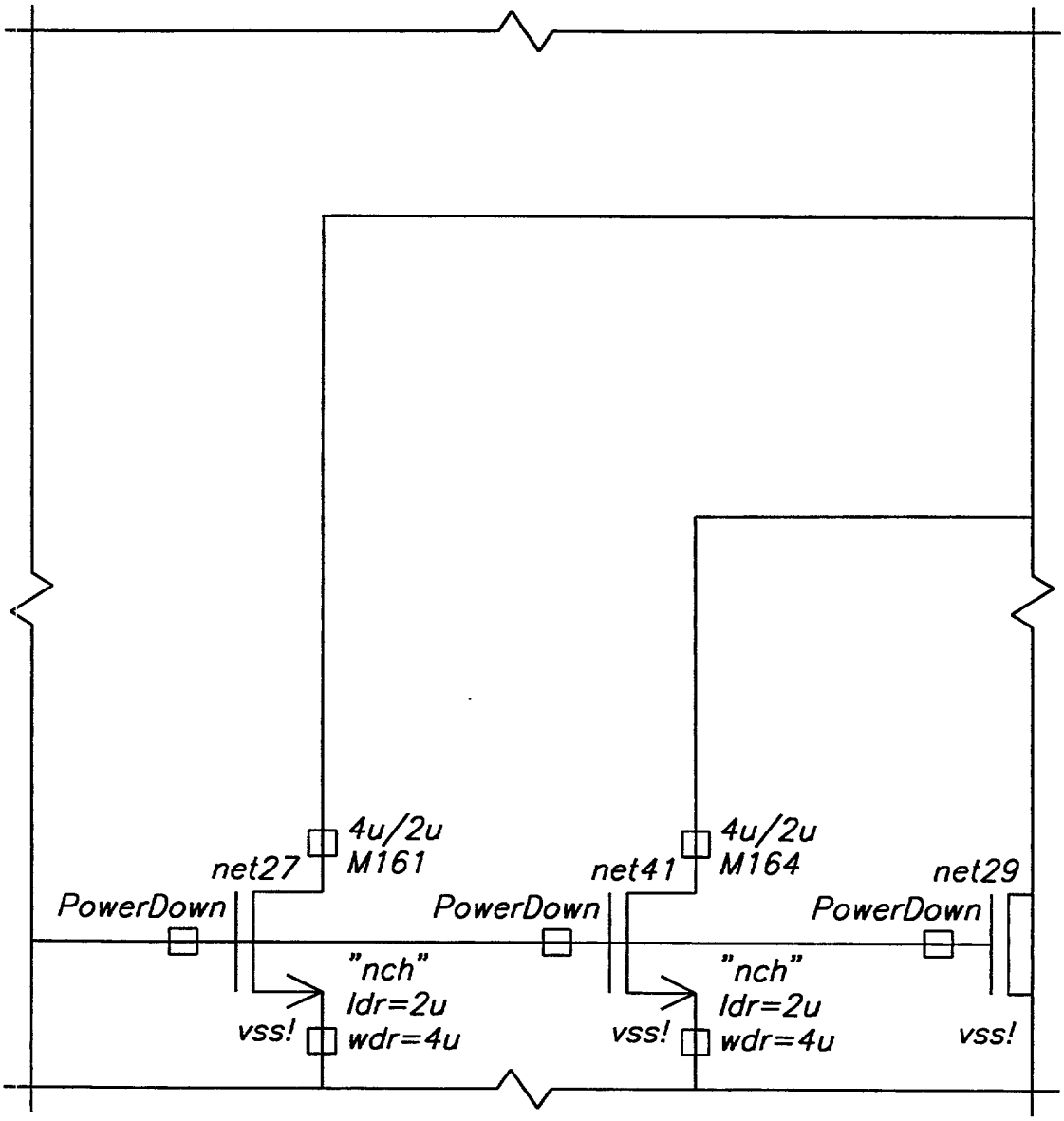


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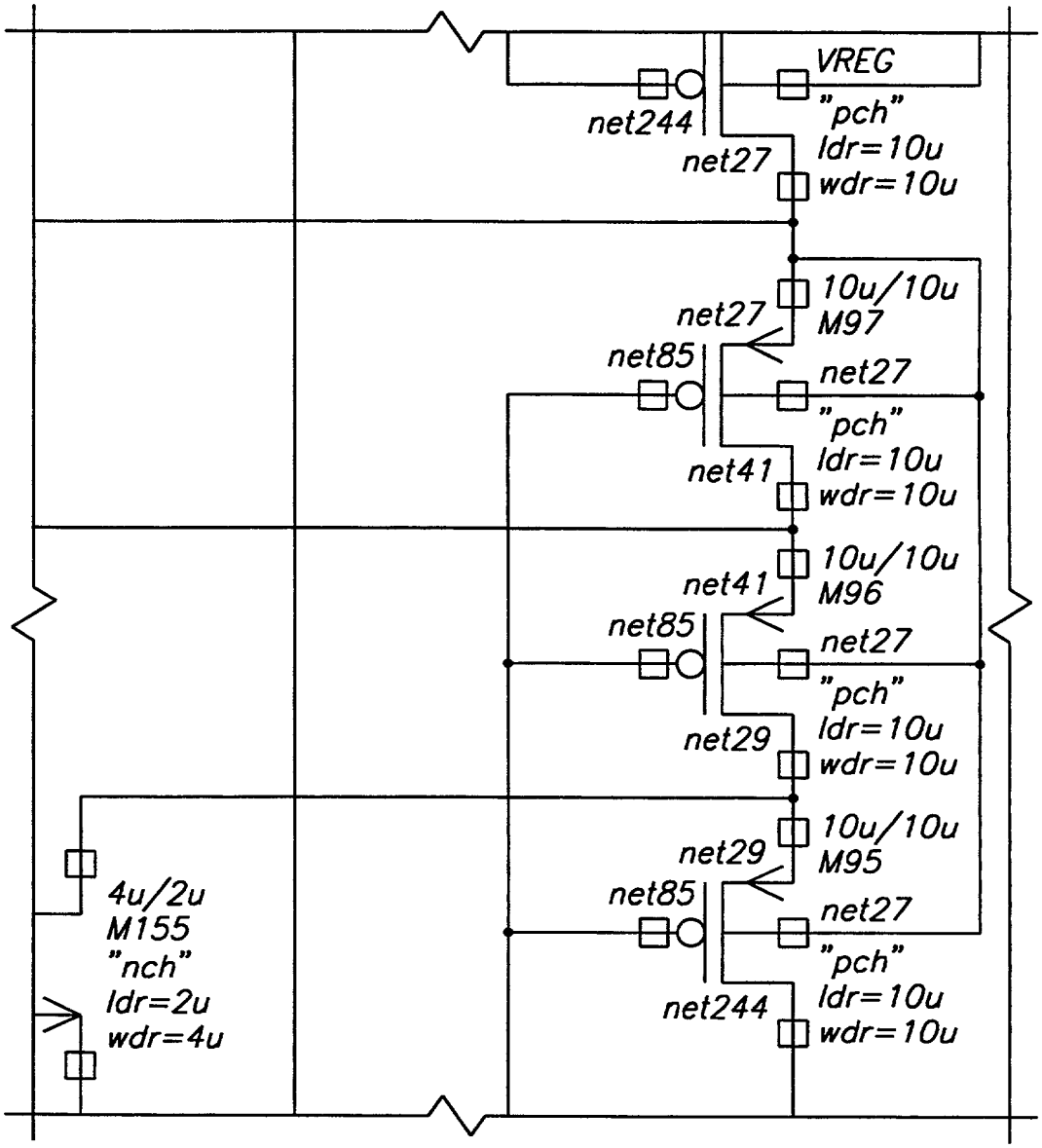


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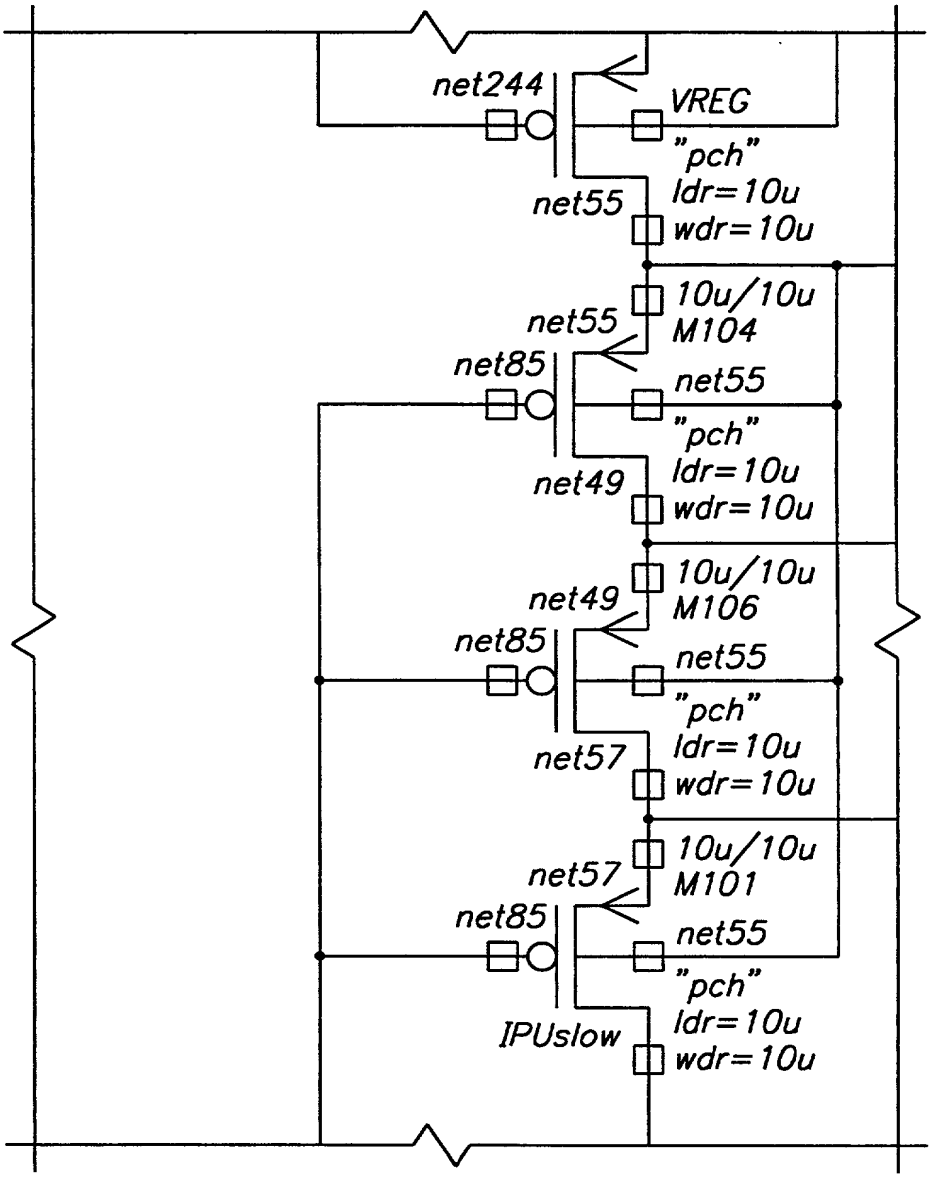
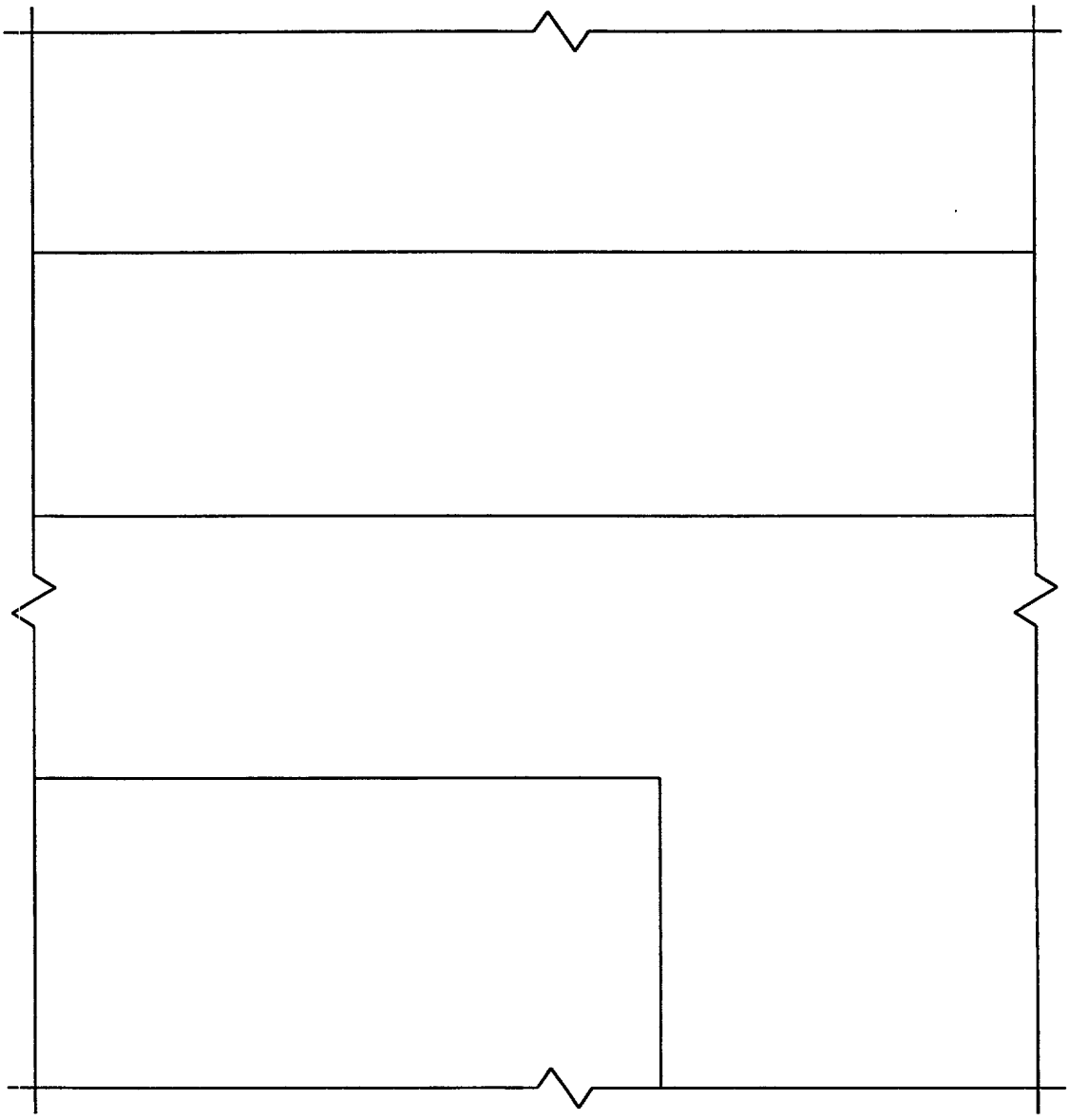
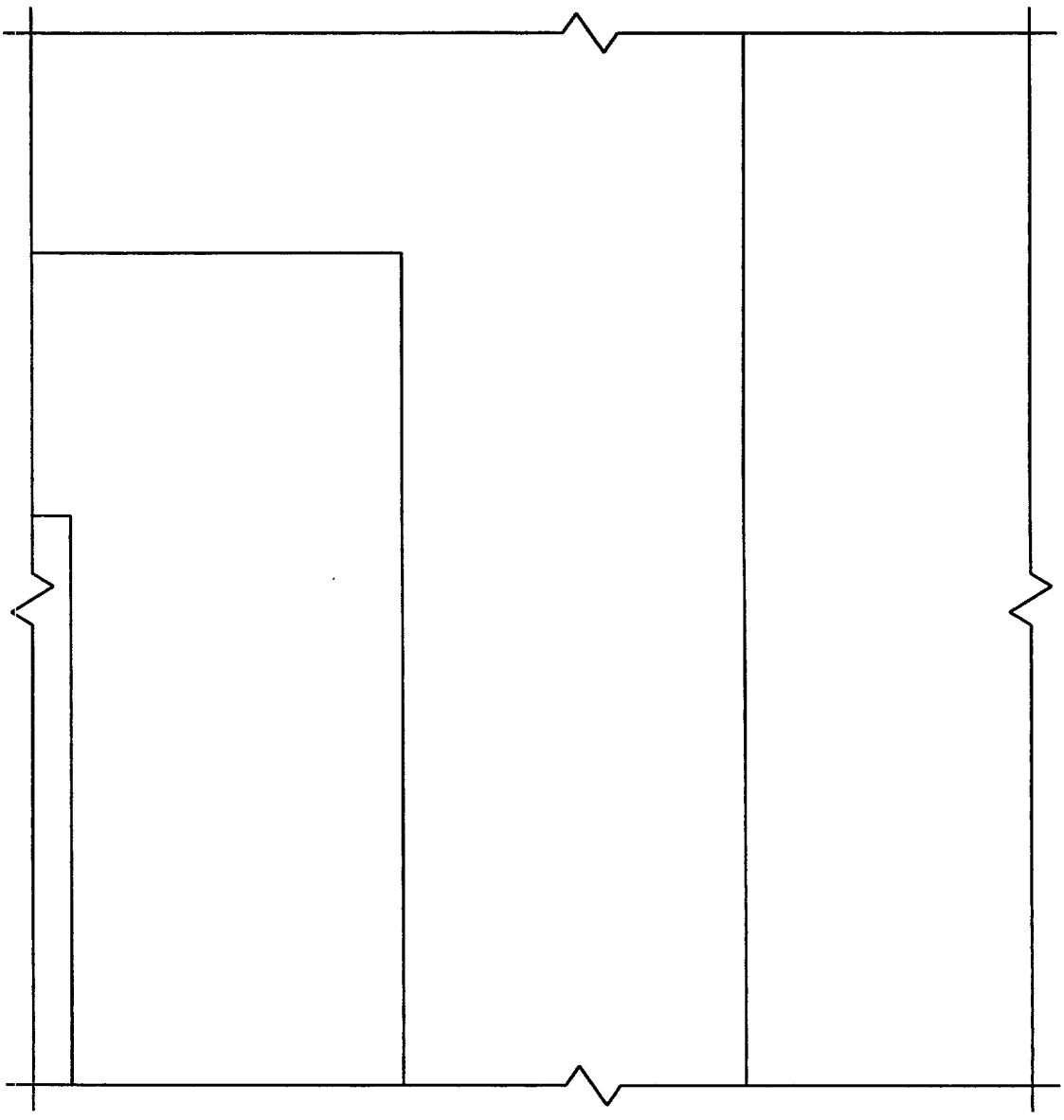


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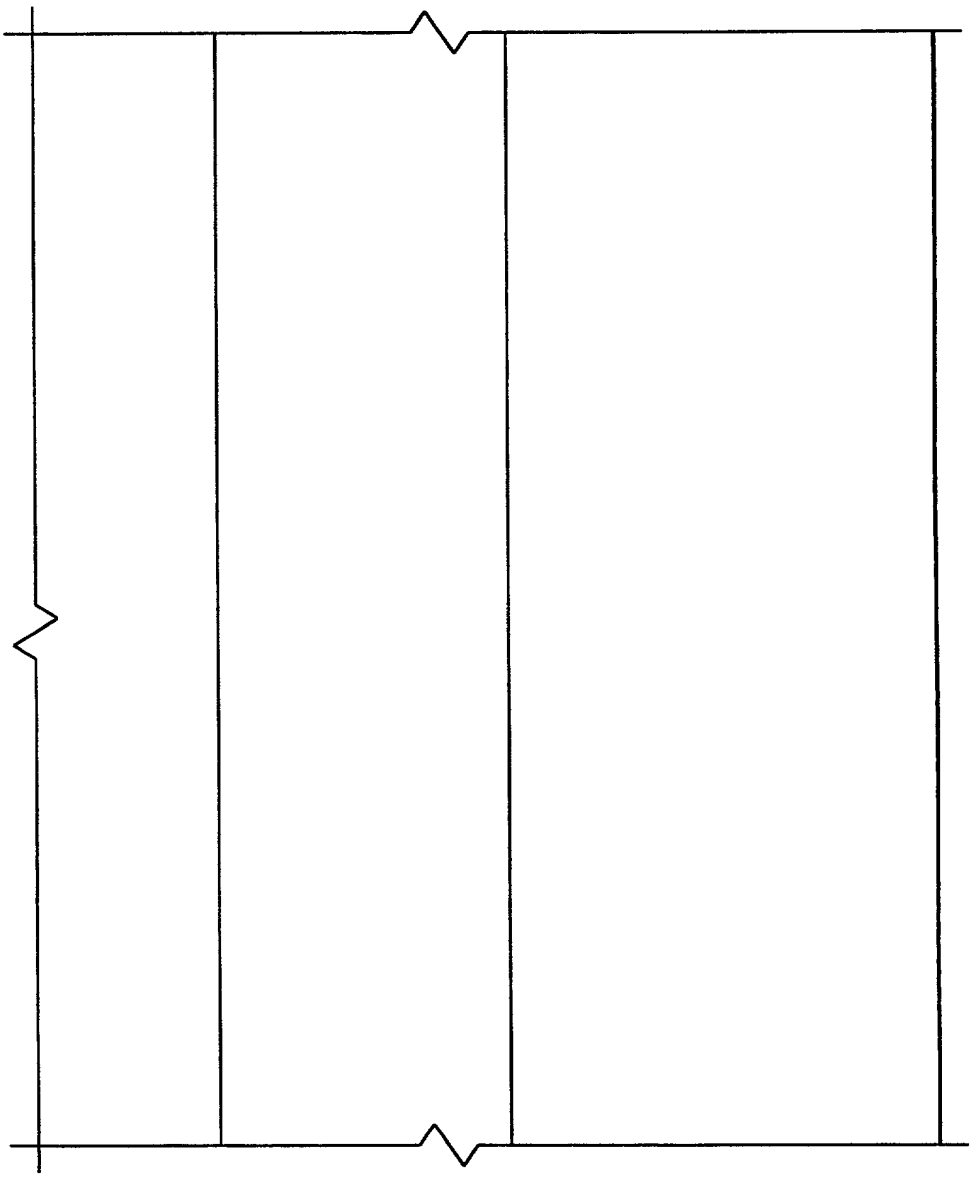


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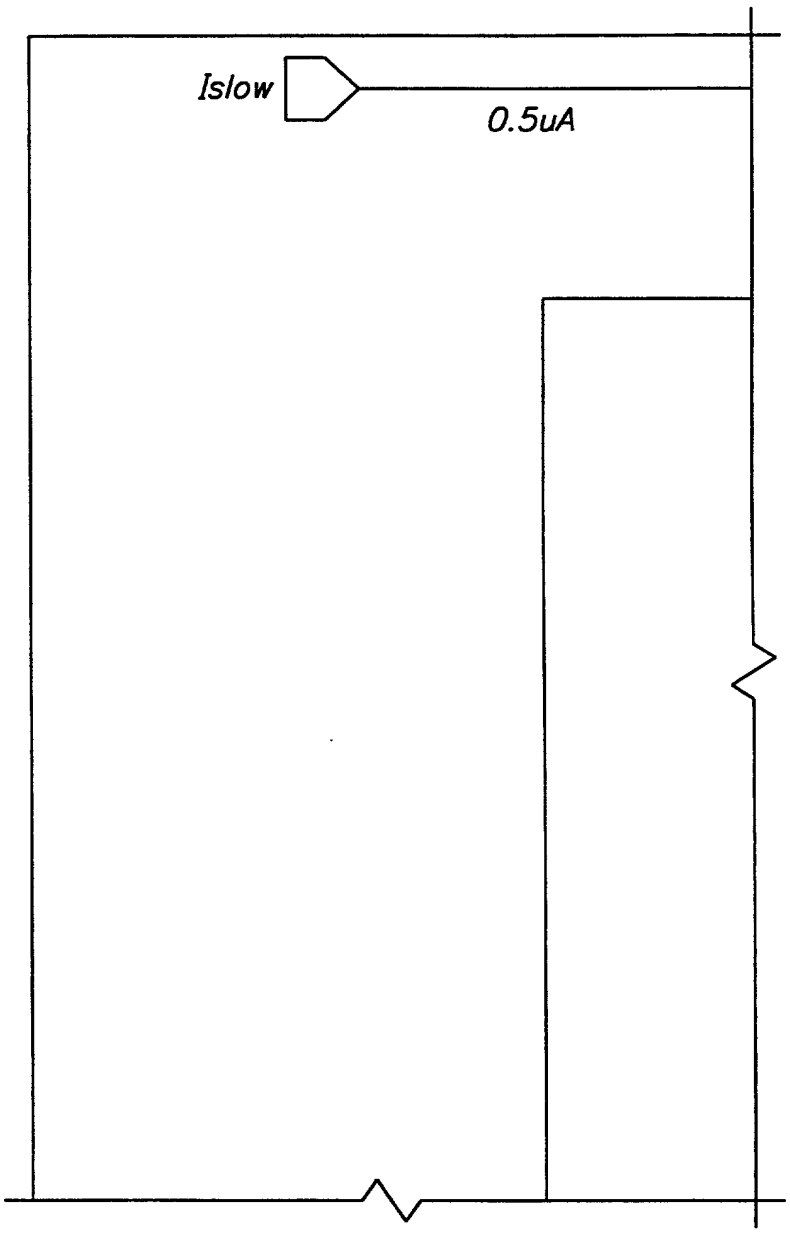


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4,950,954

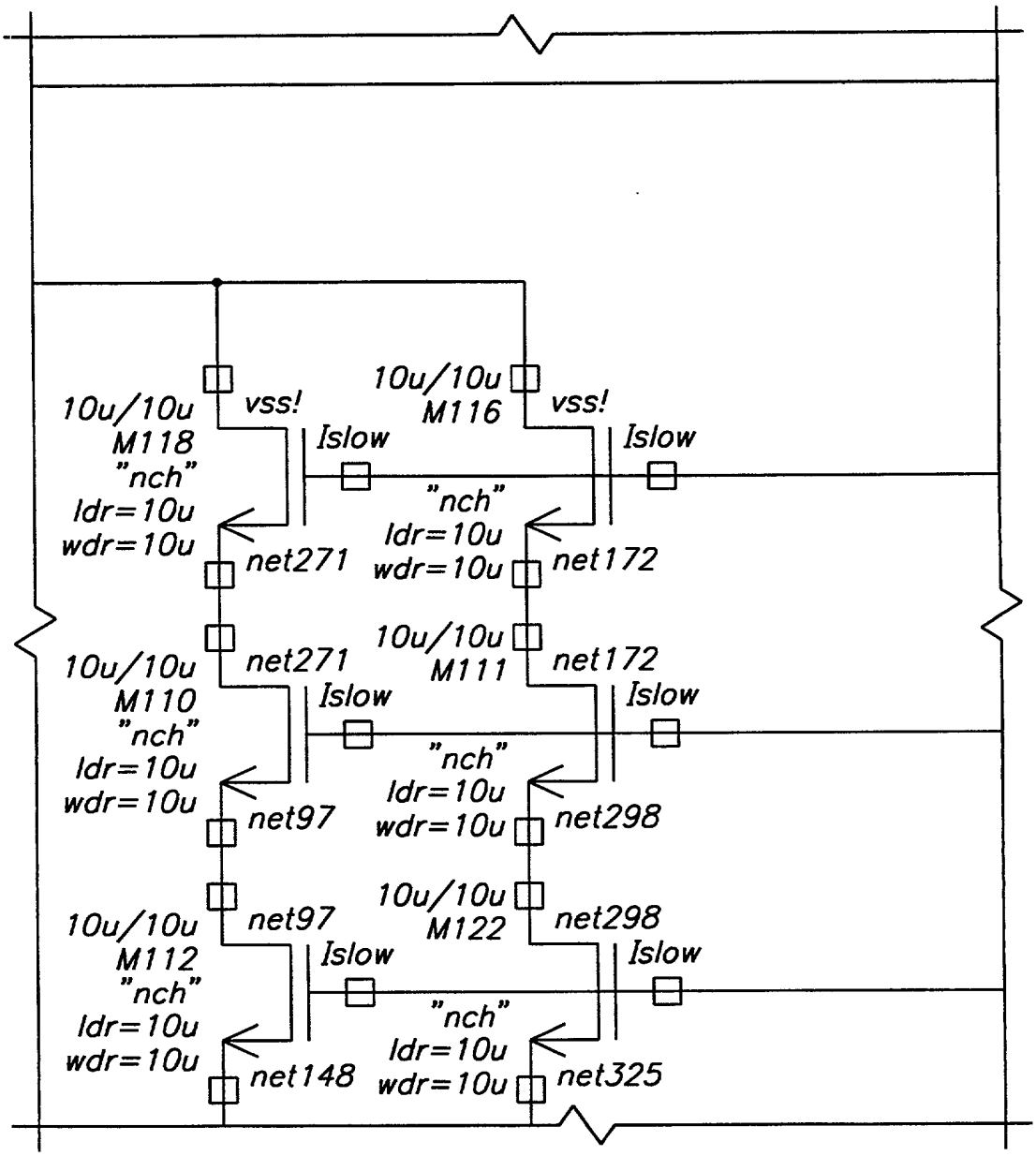

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FIG 8C

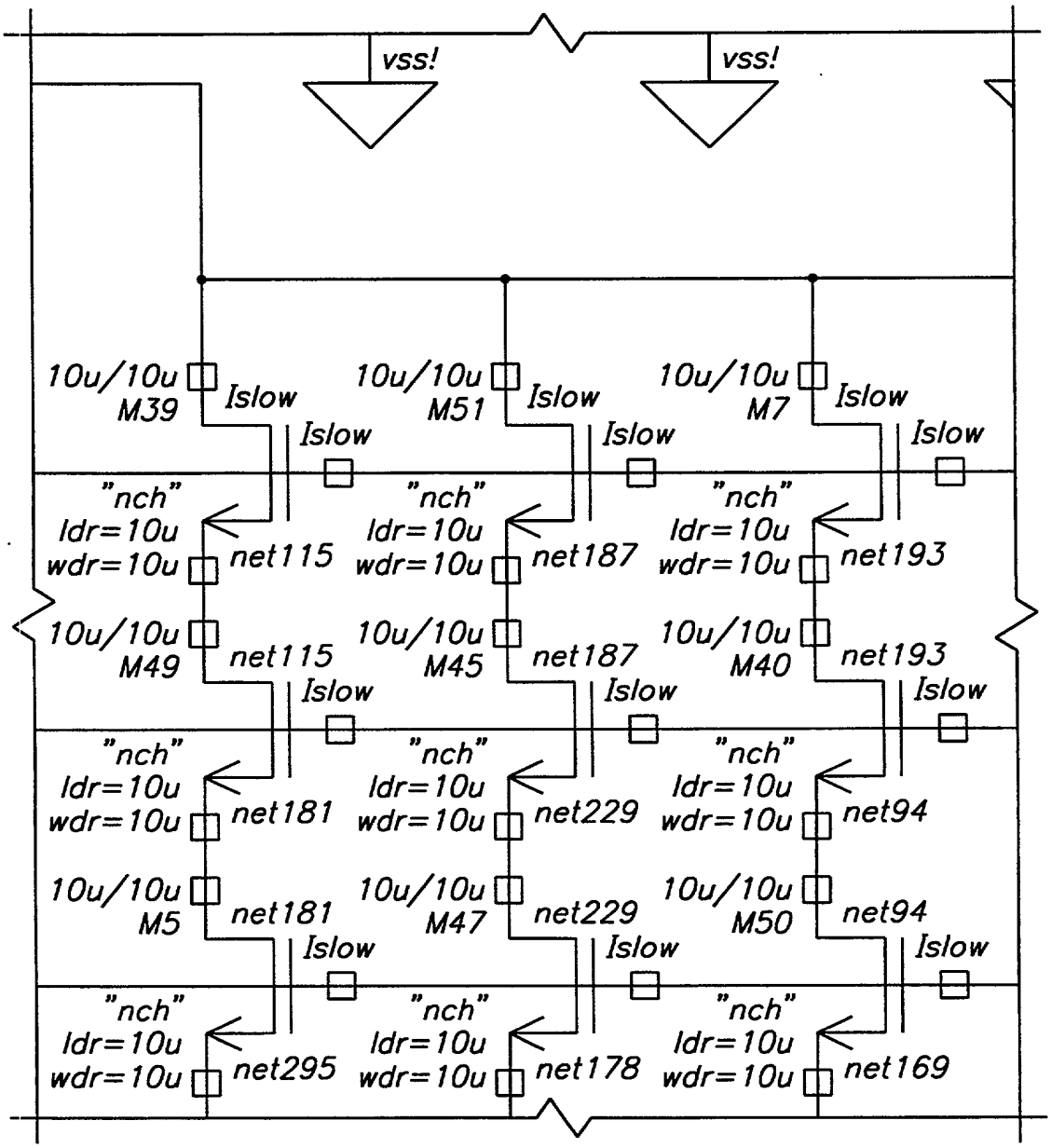


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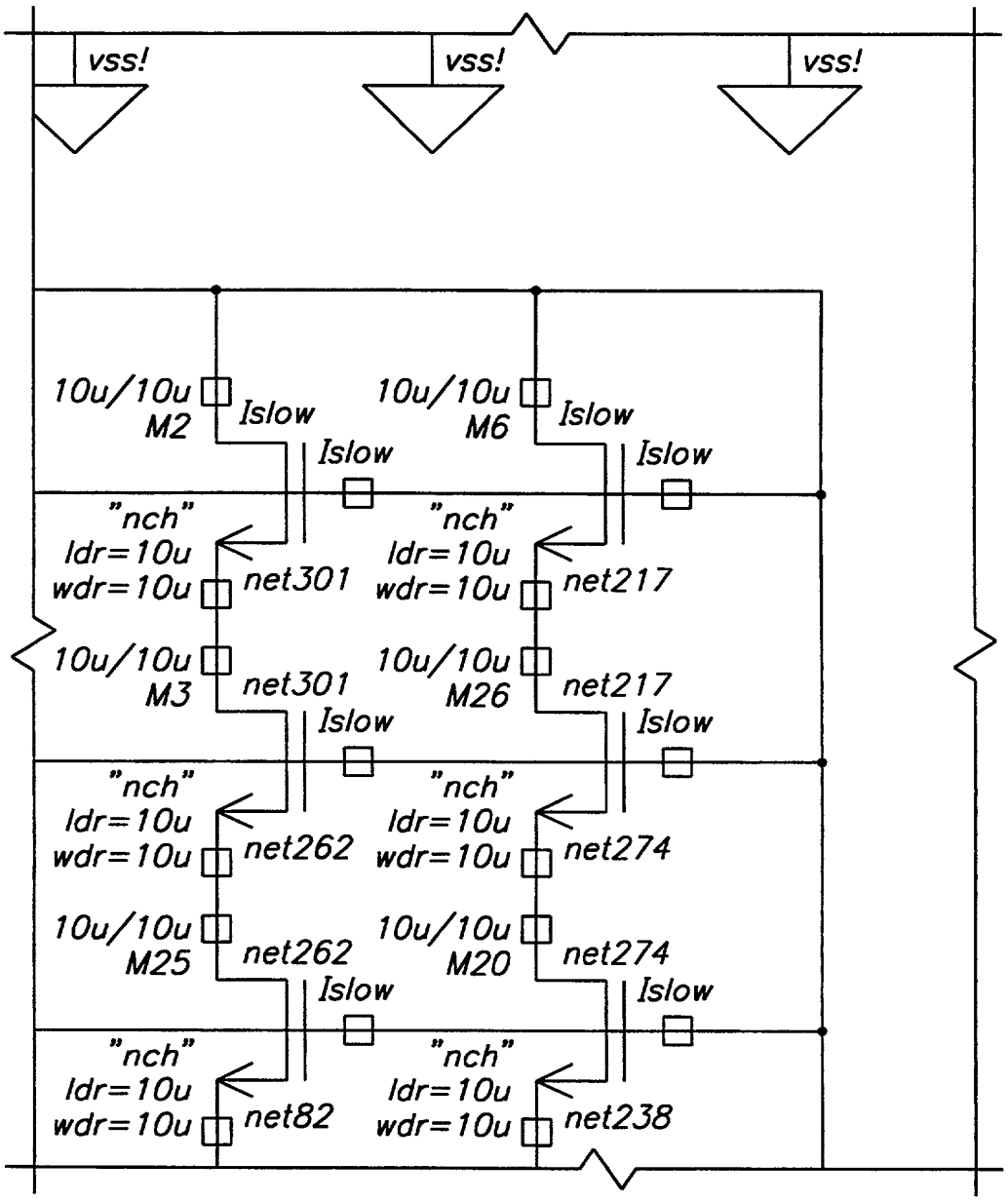


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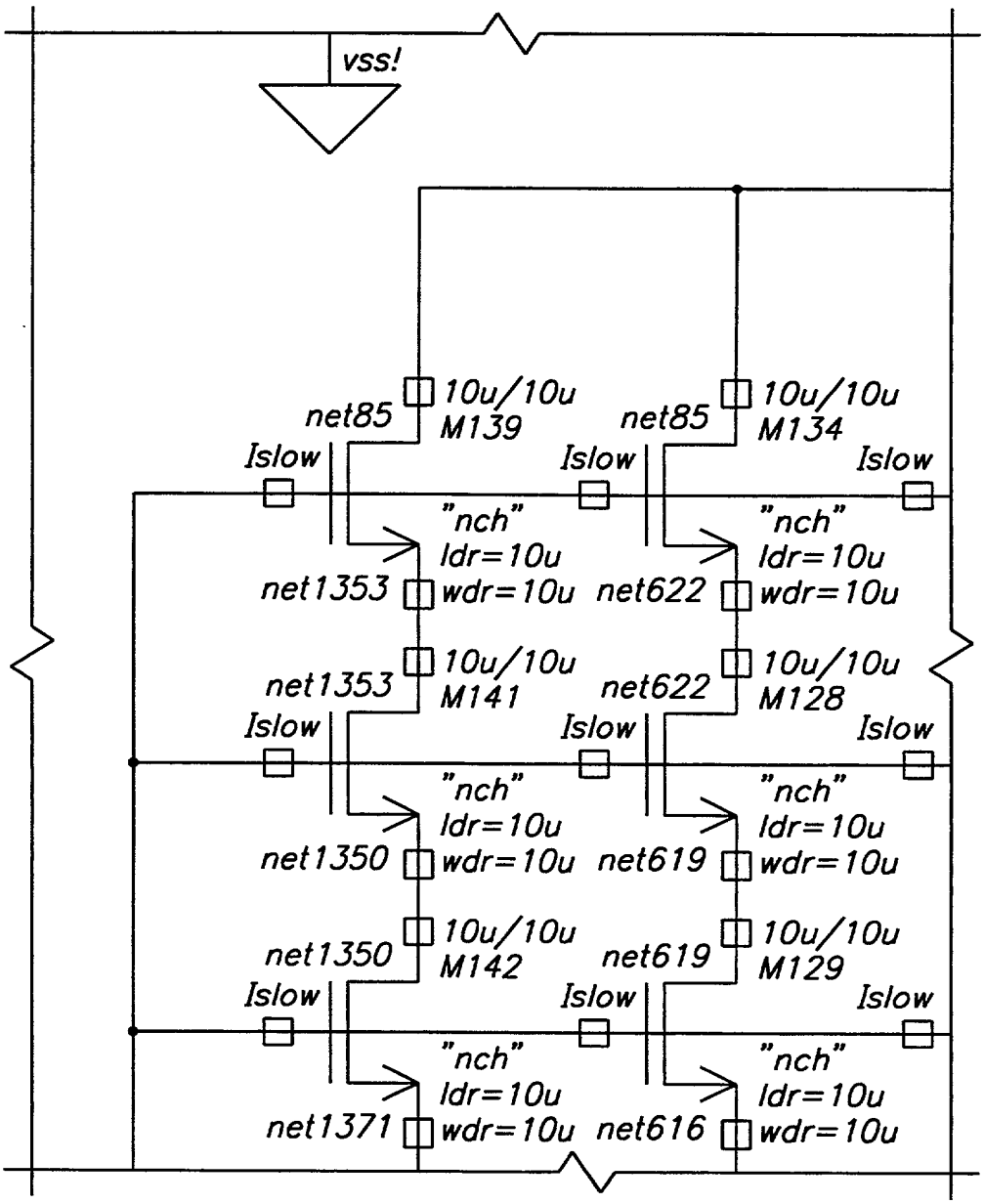


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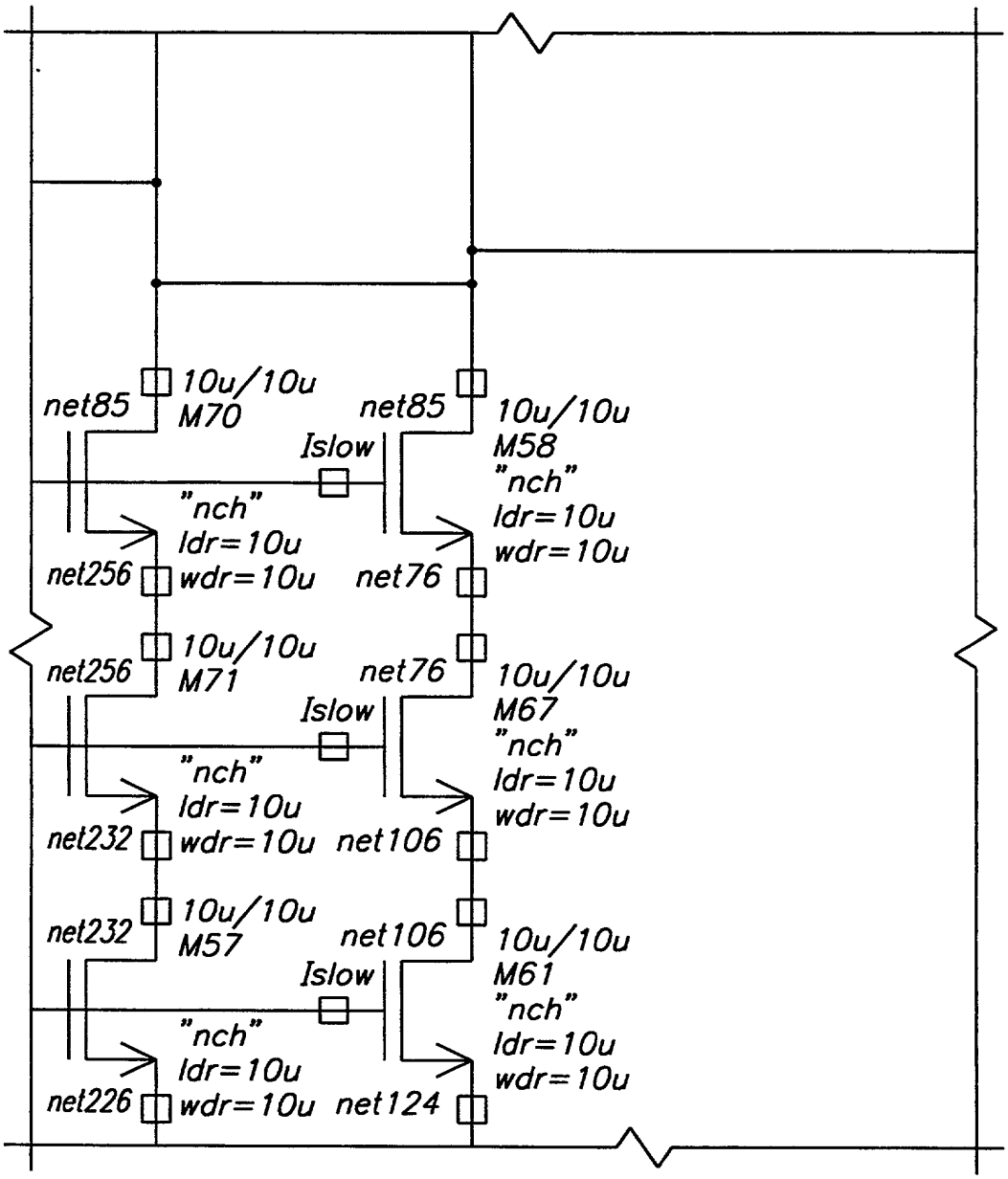


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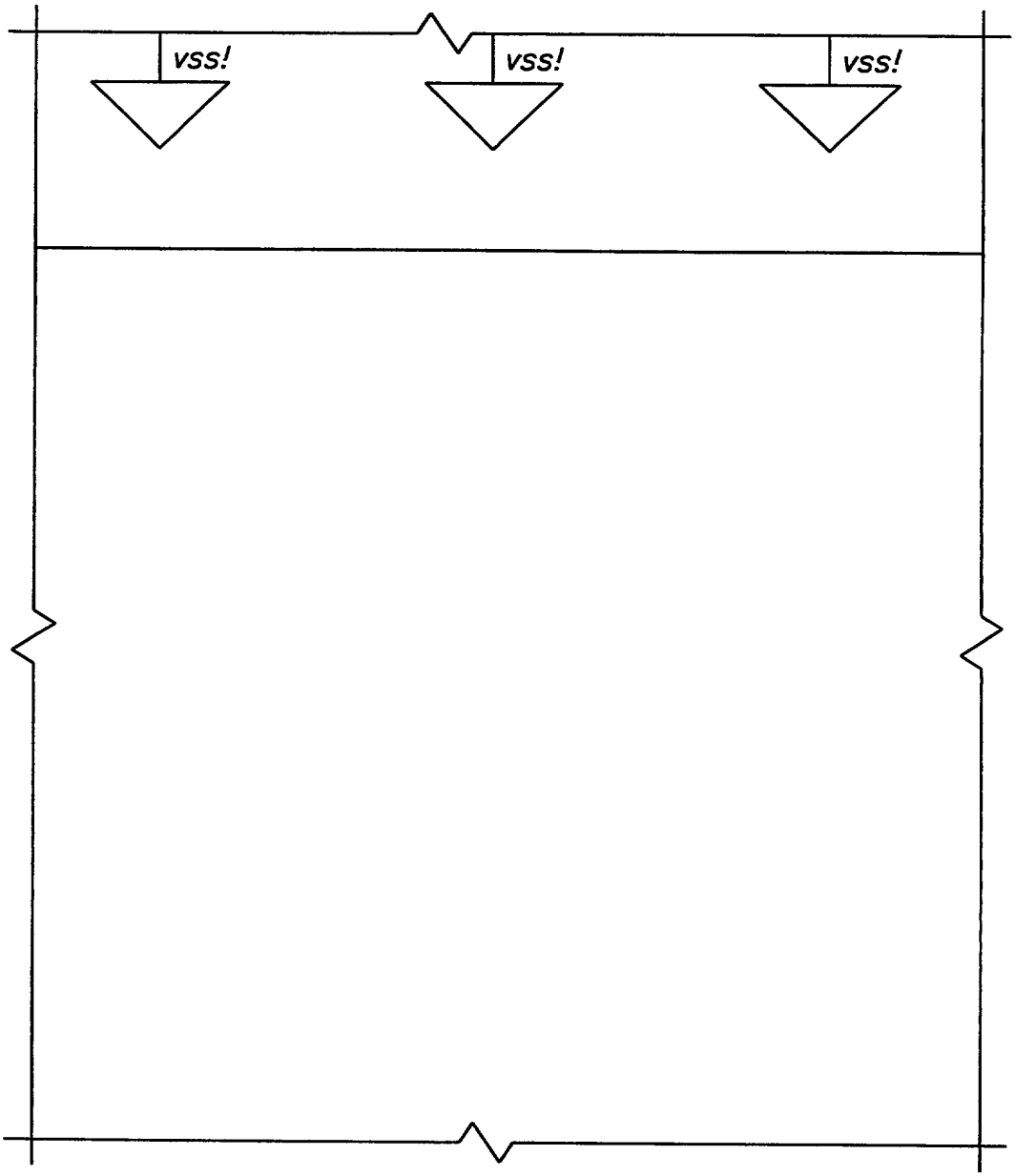


Fig 8.0504050C6

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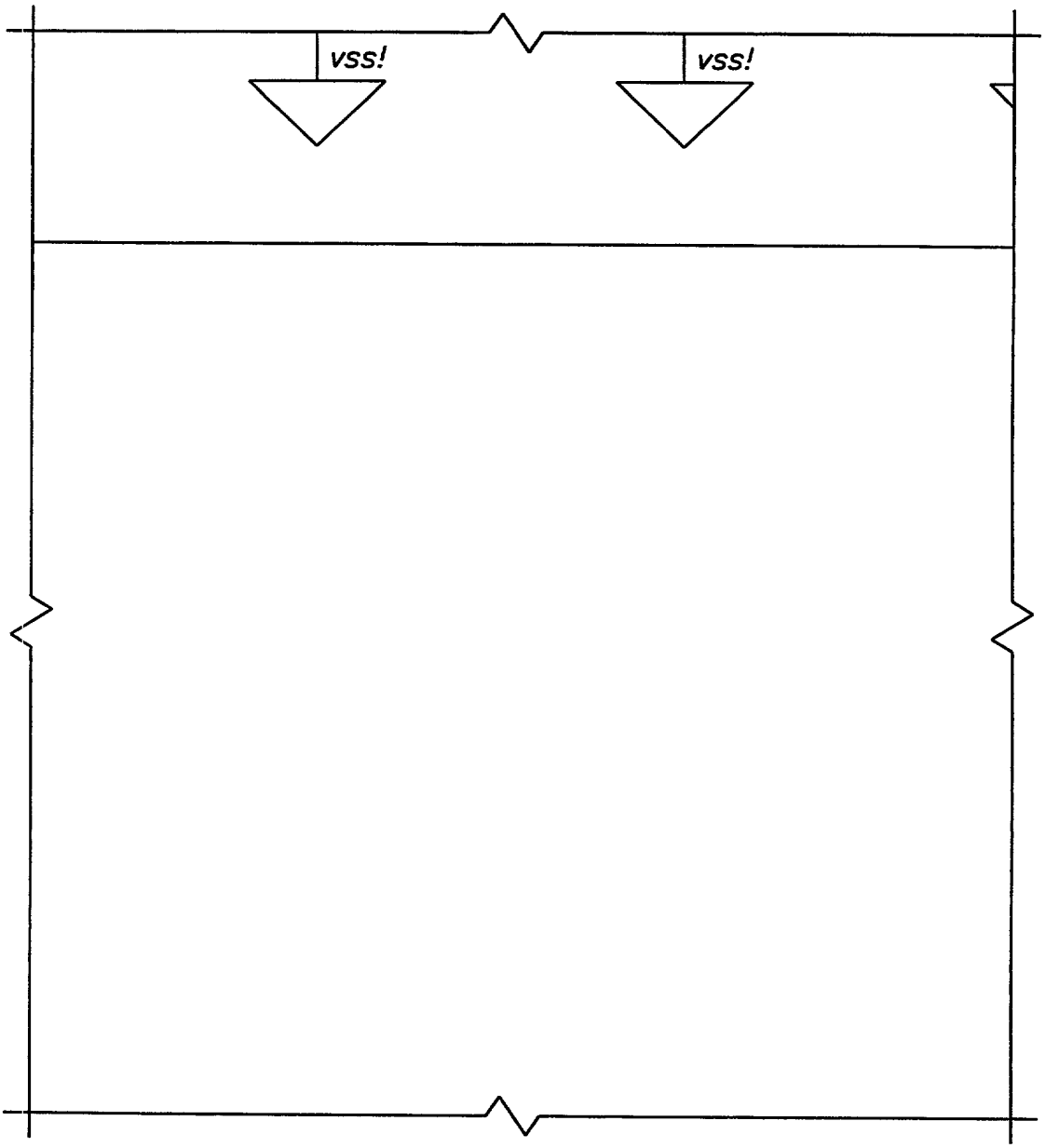


Fig 8.050405CH

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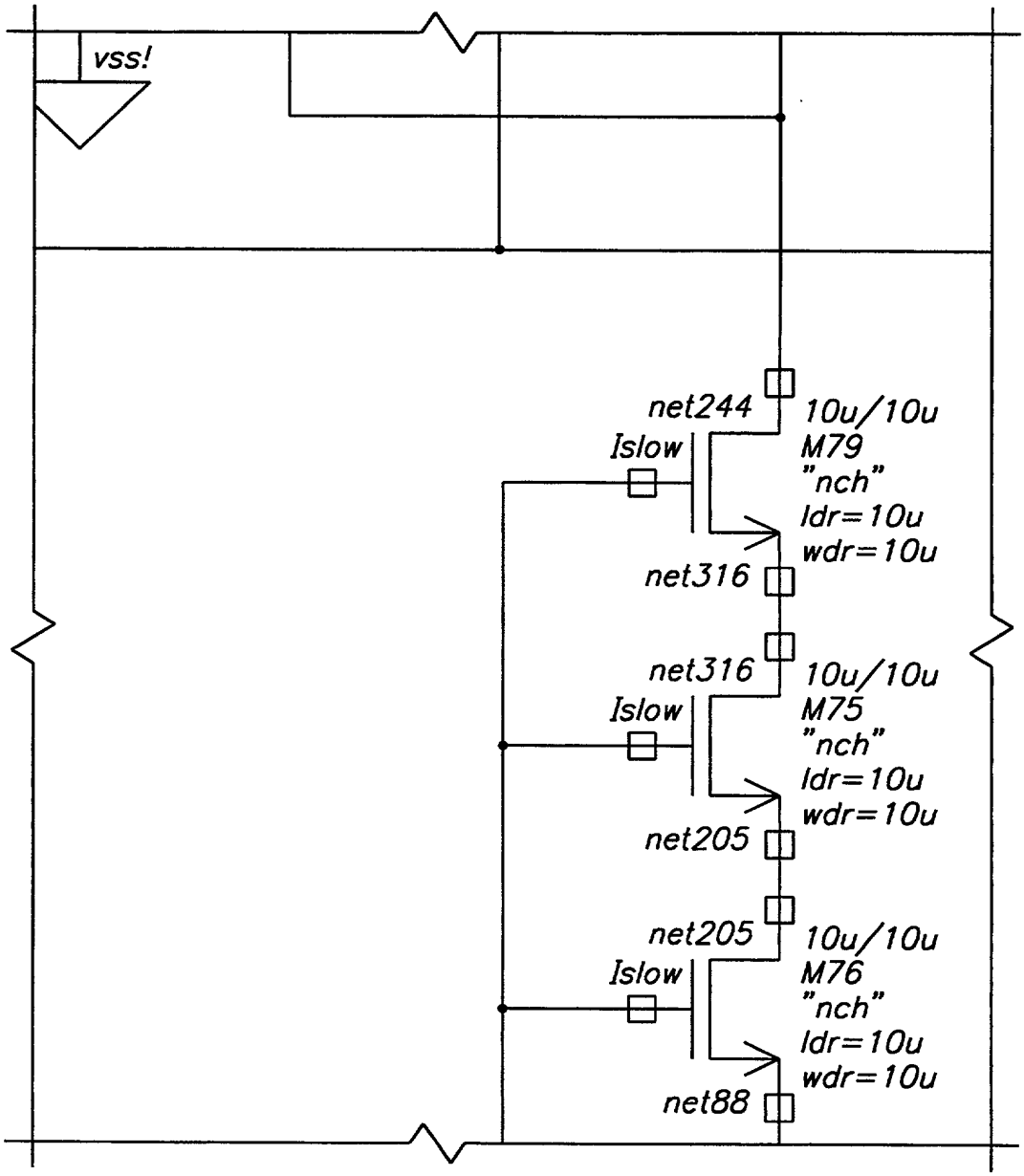


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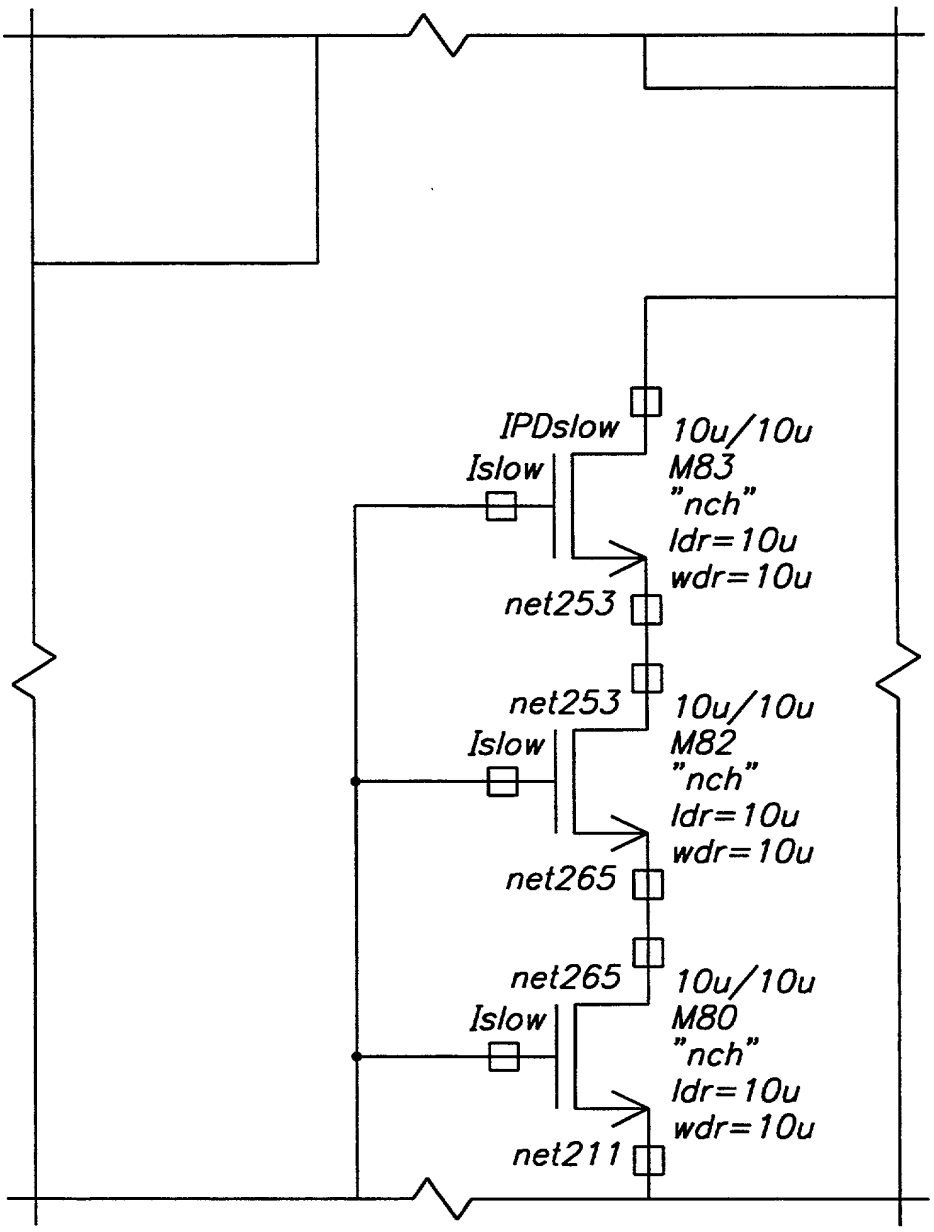


Fig 8.0504050a1

US20050264305A1

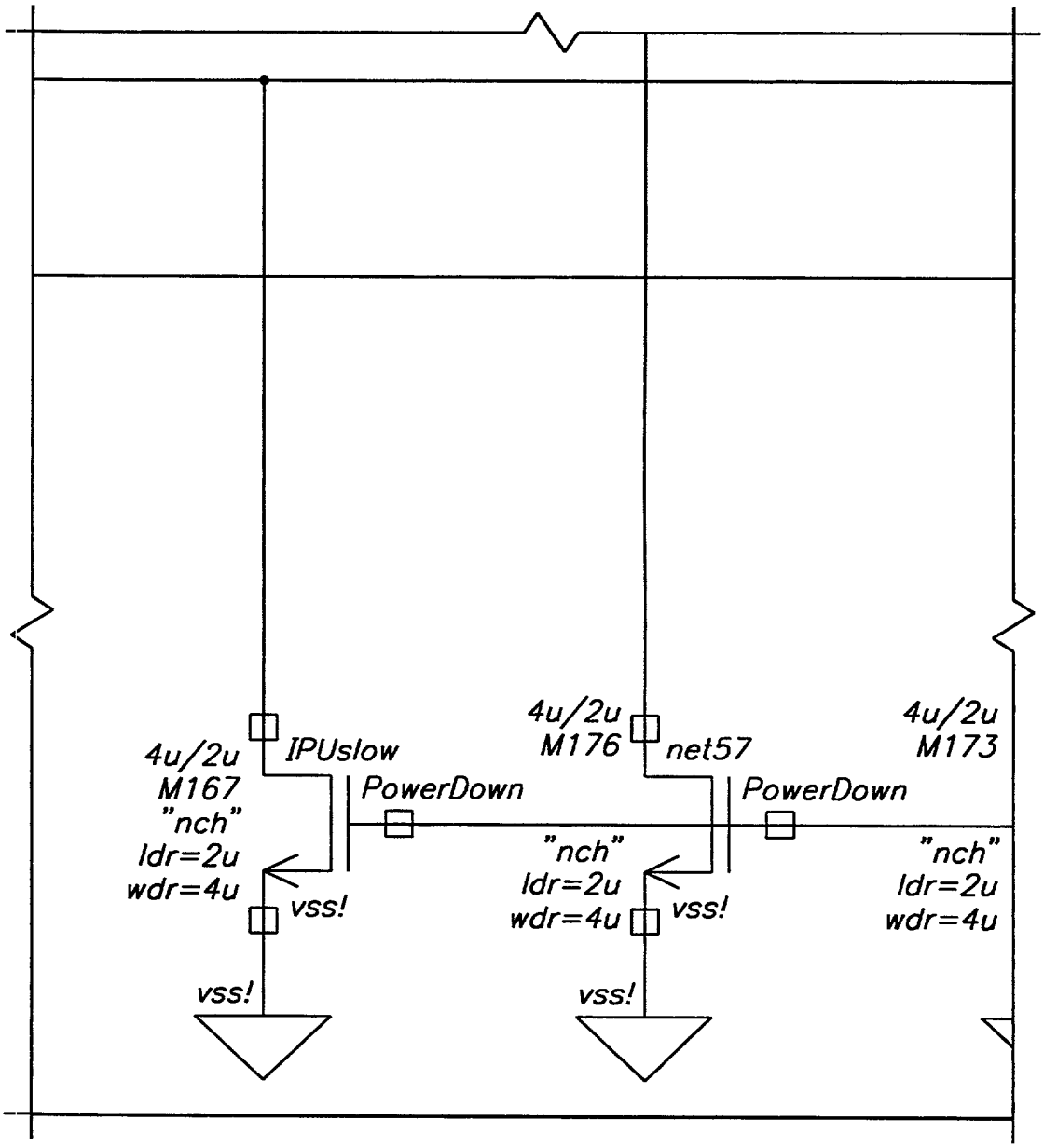


Fig 8.0504-0505

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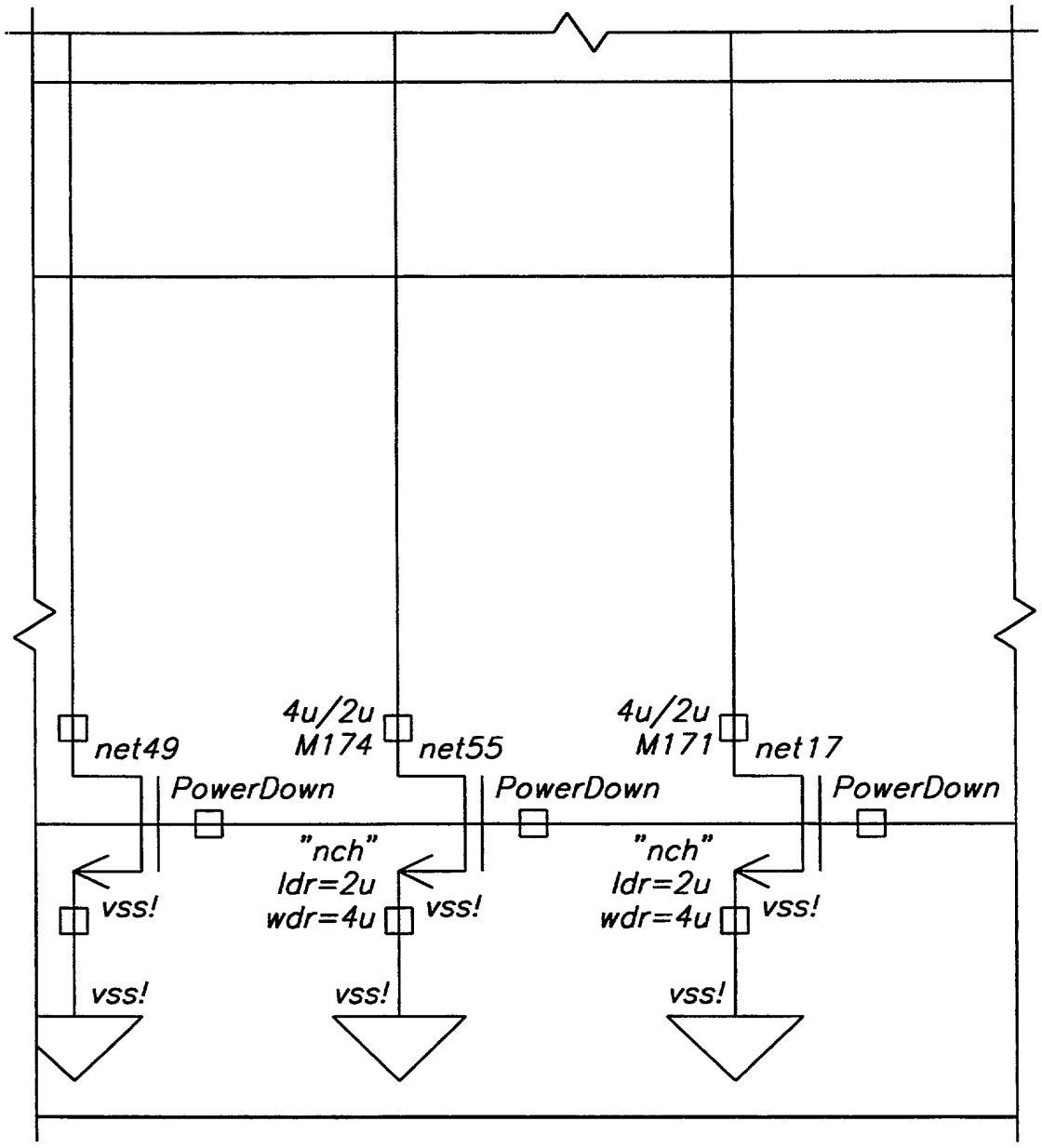


Fig 8.0504050L

Patent application

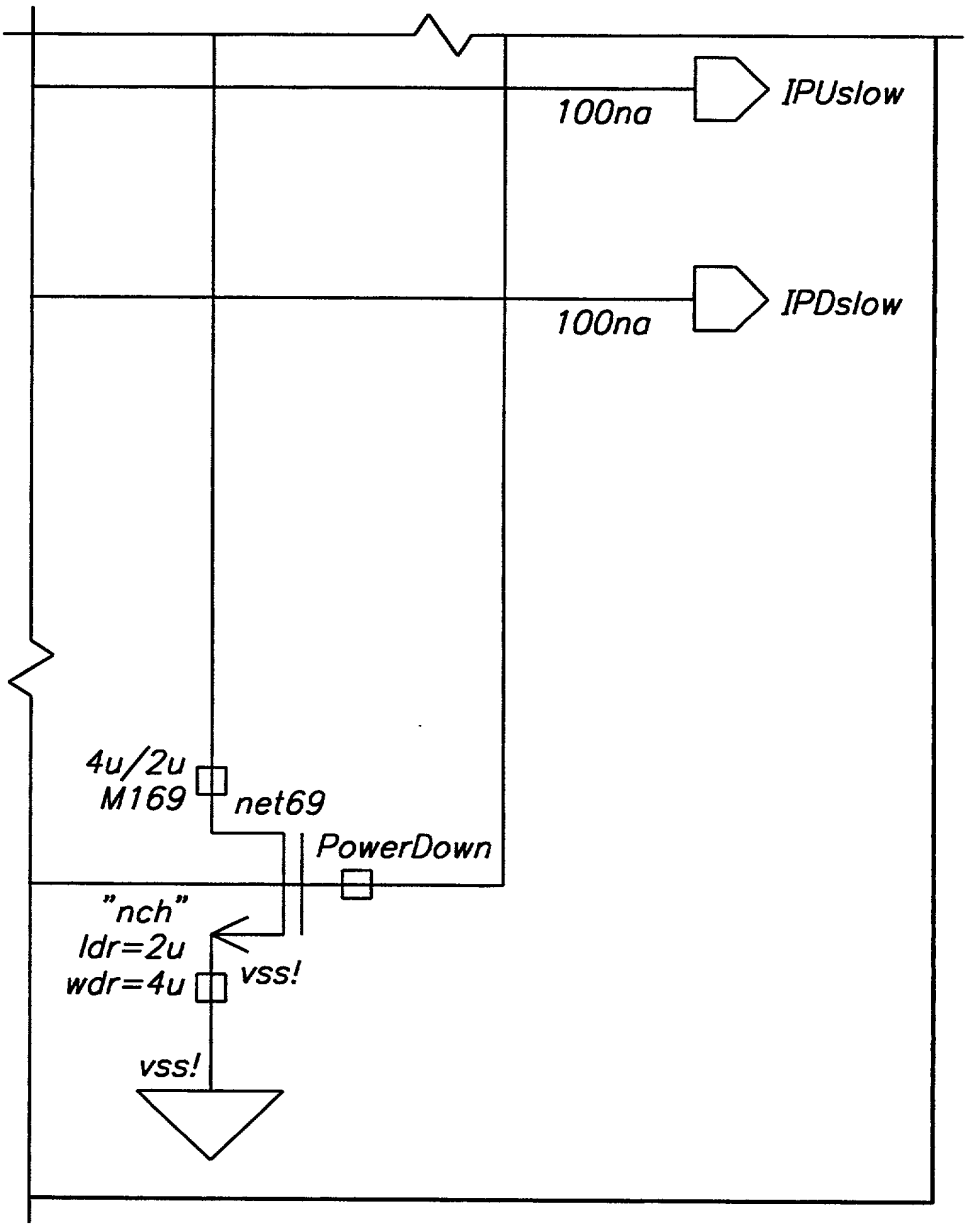


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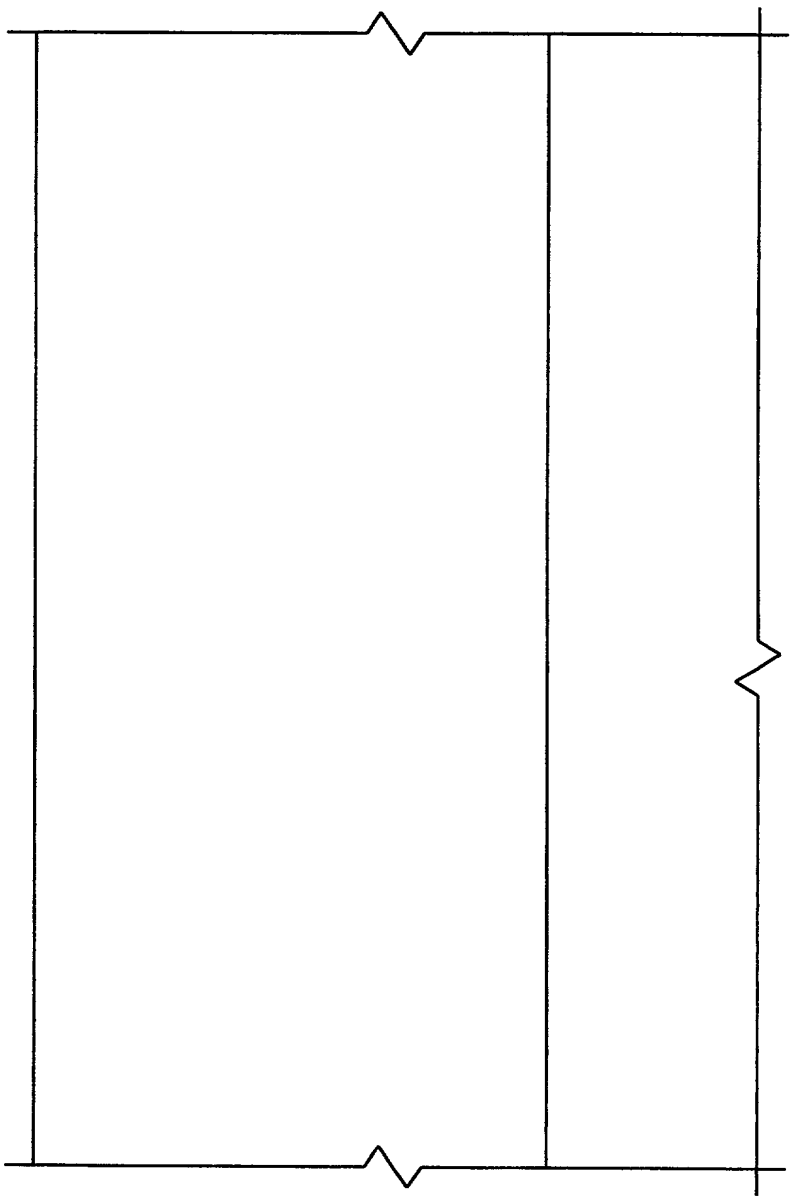


Fig 8.0504050A

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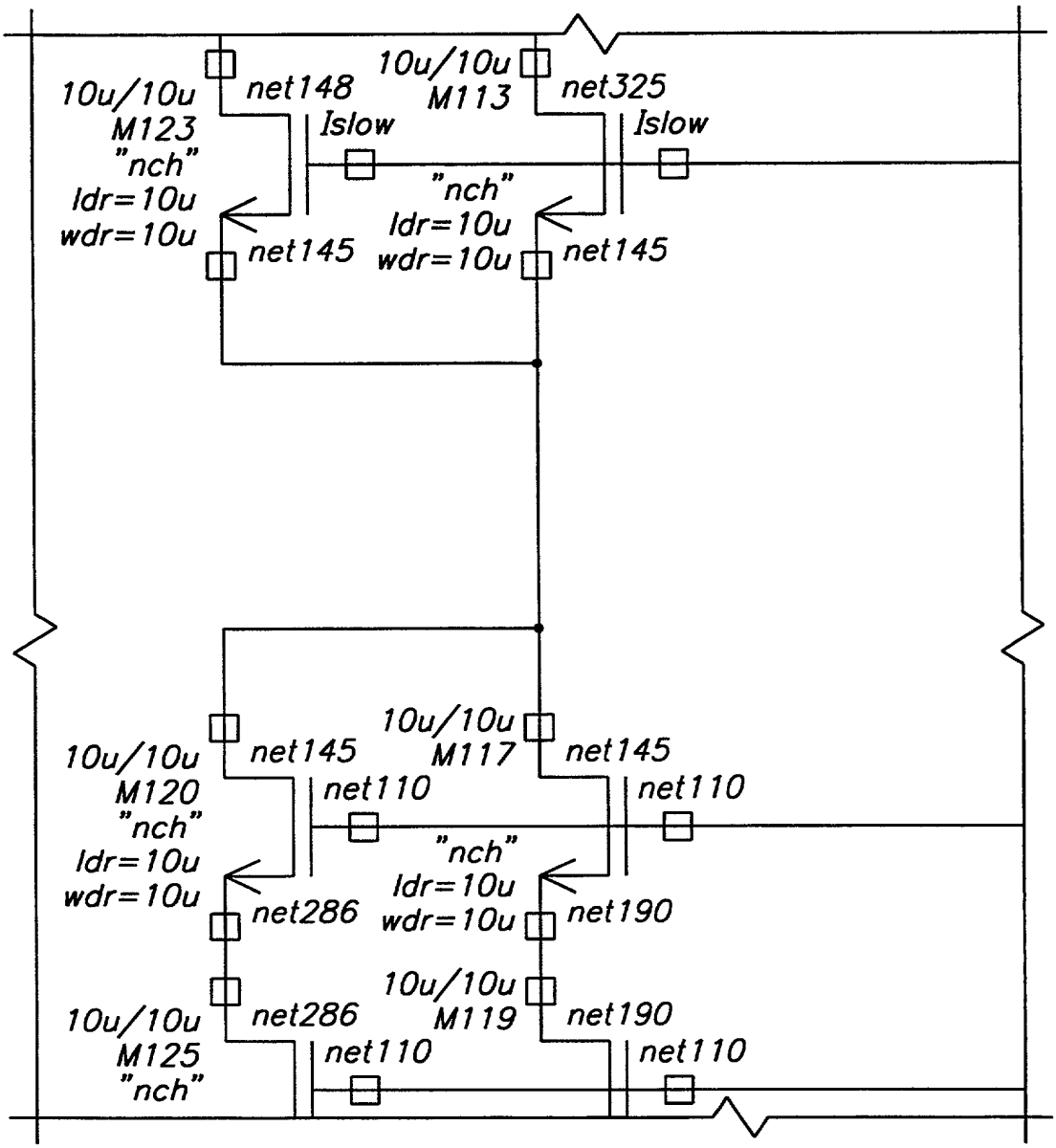


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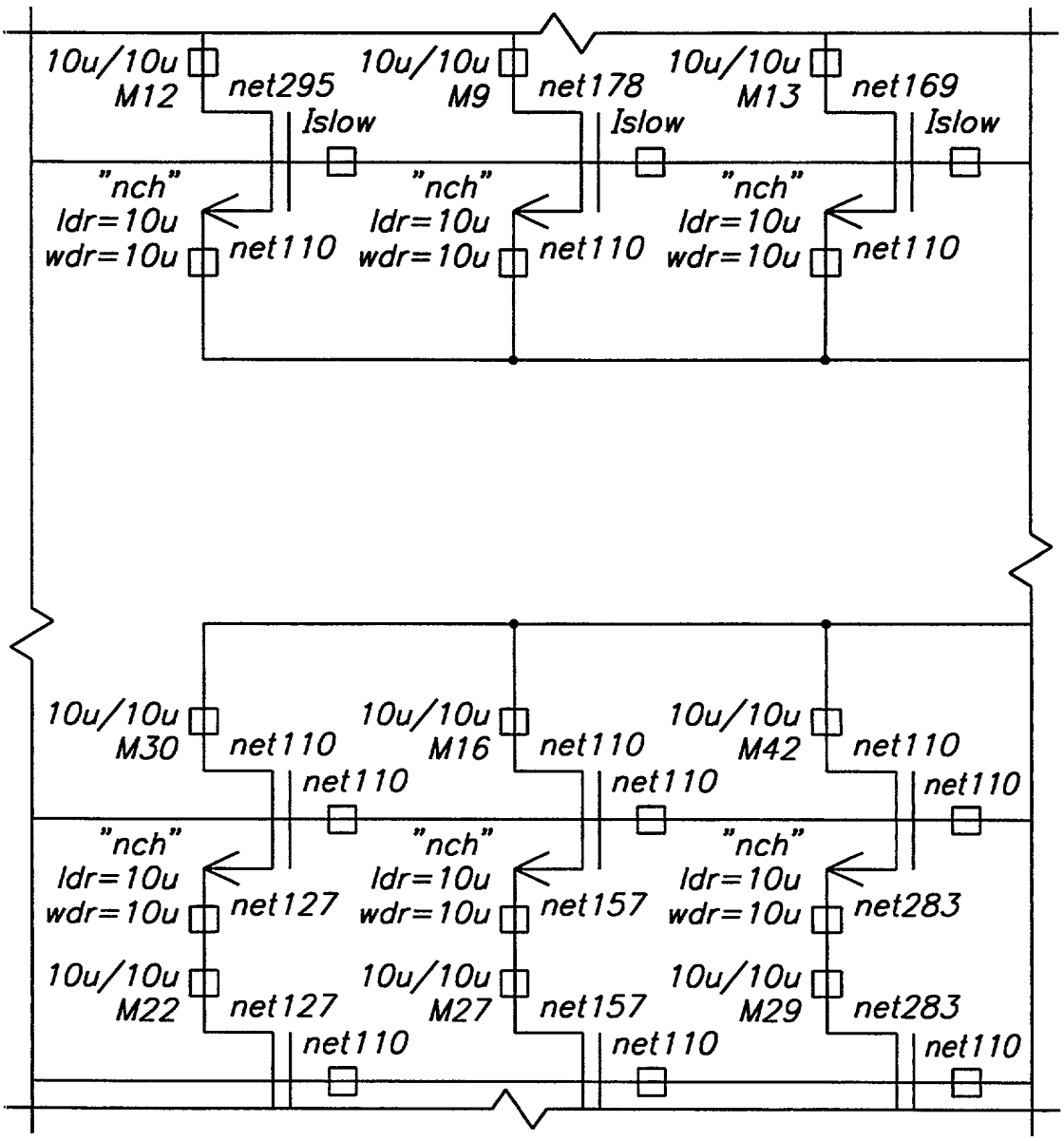


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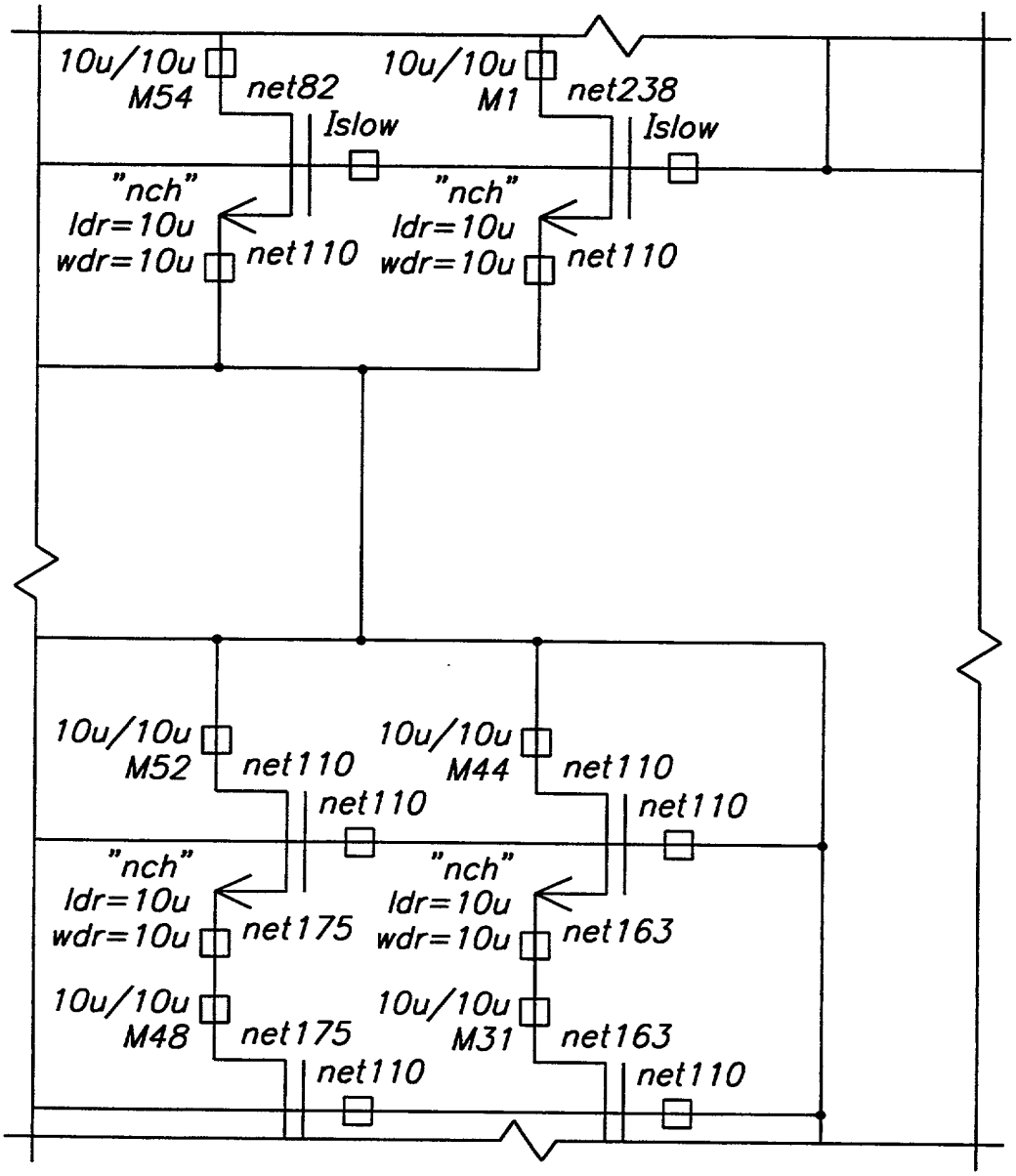


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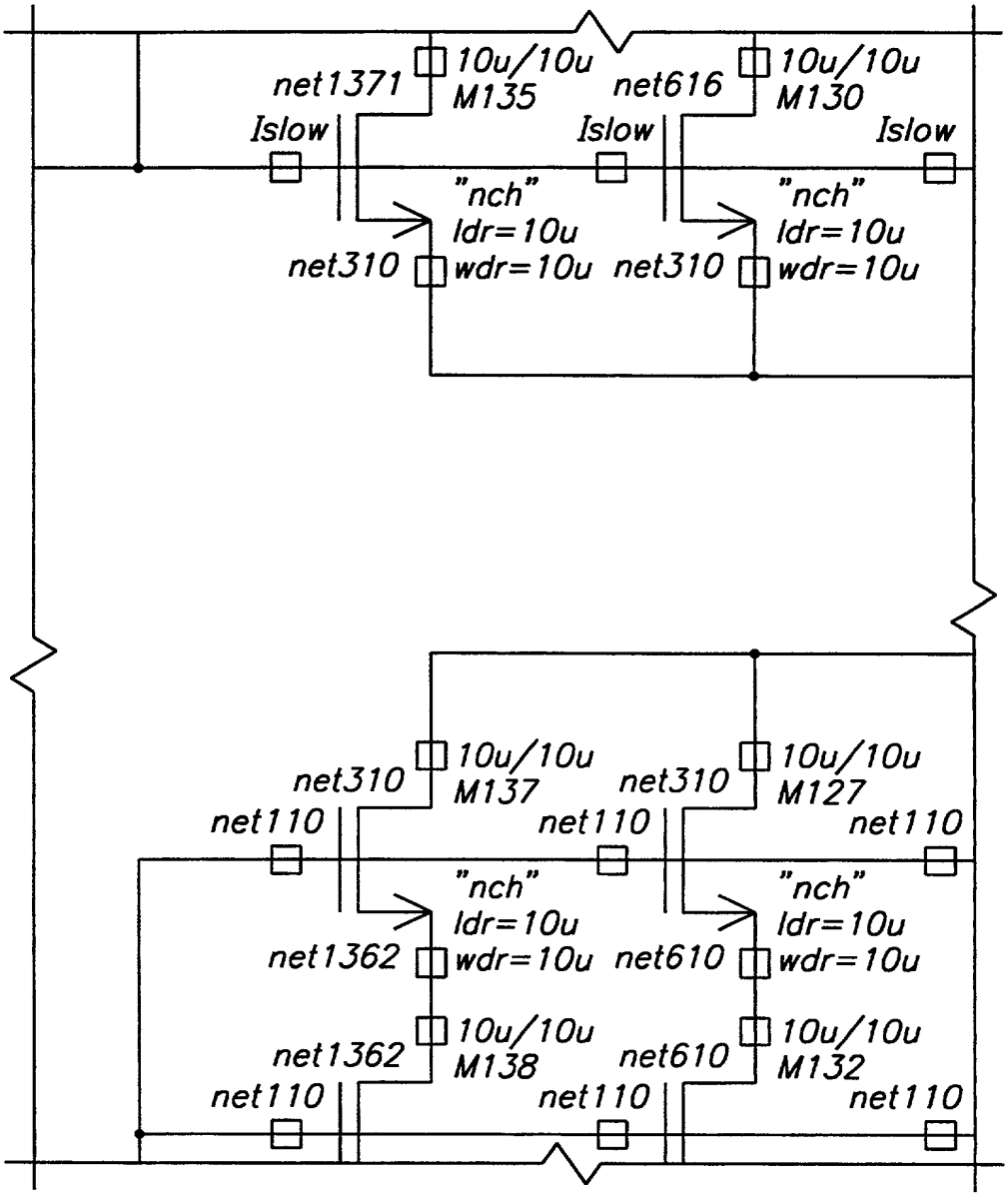


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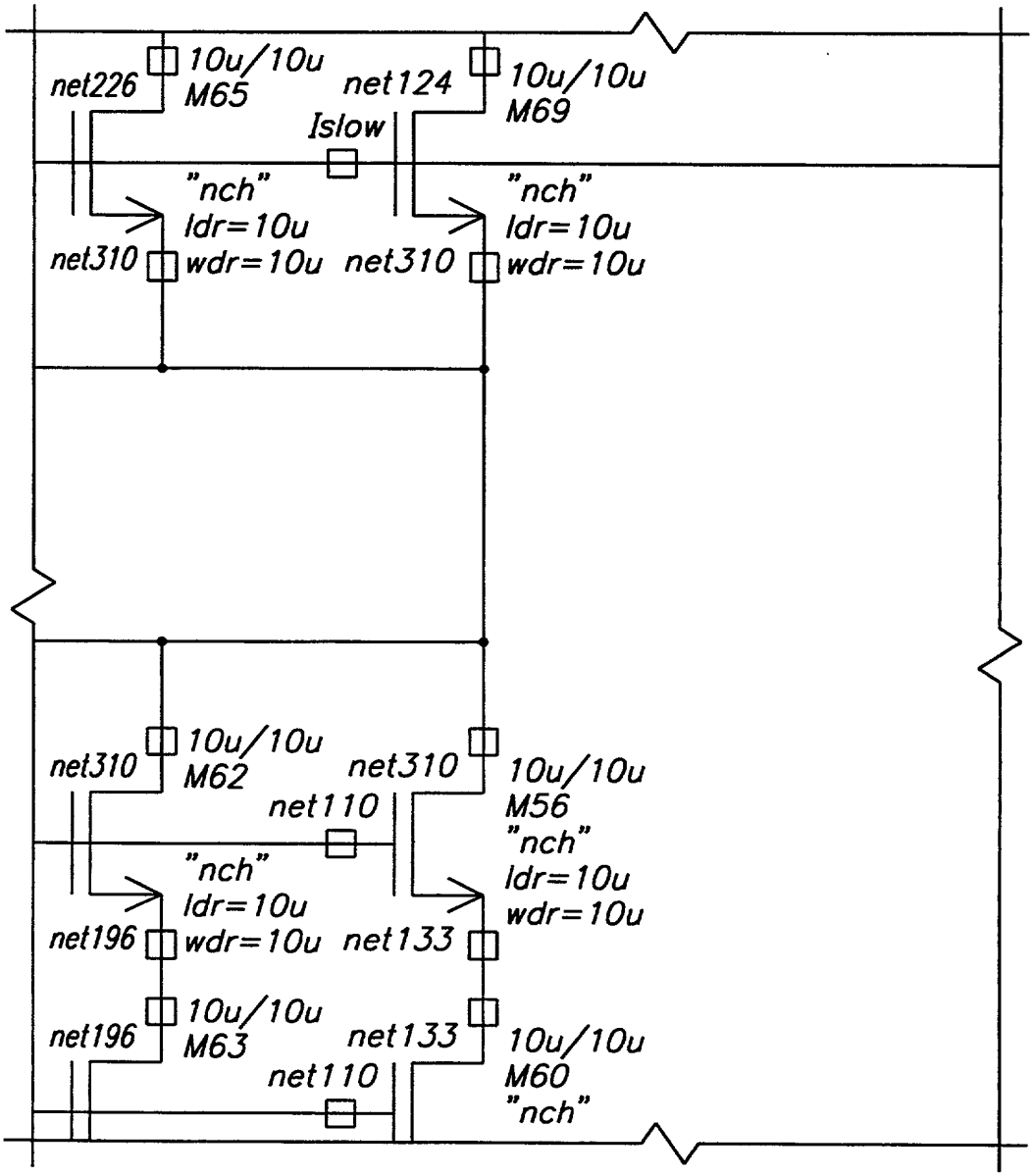


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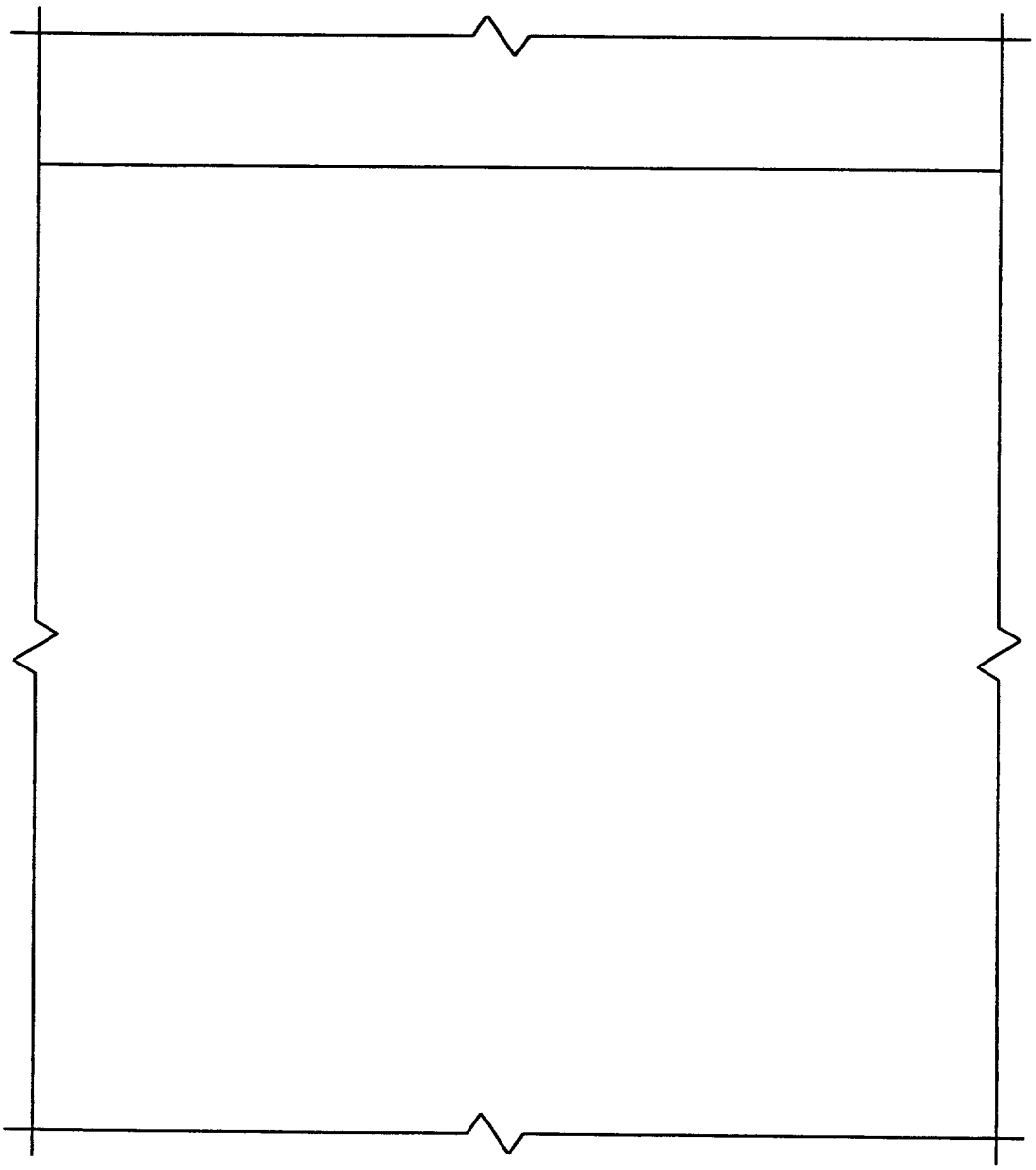
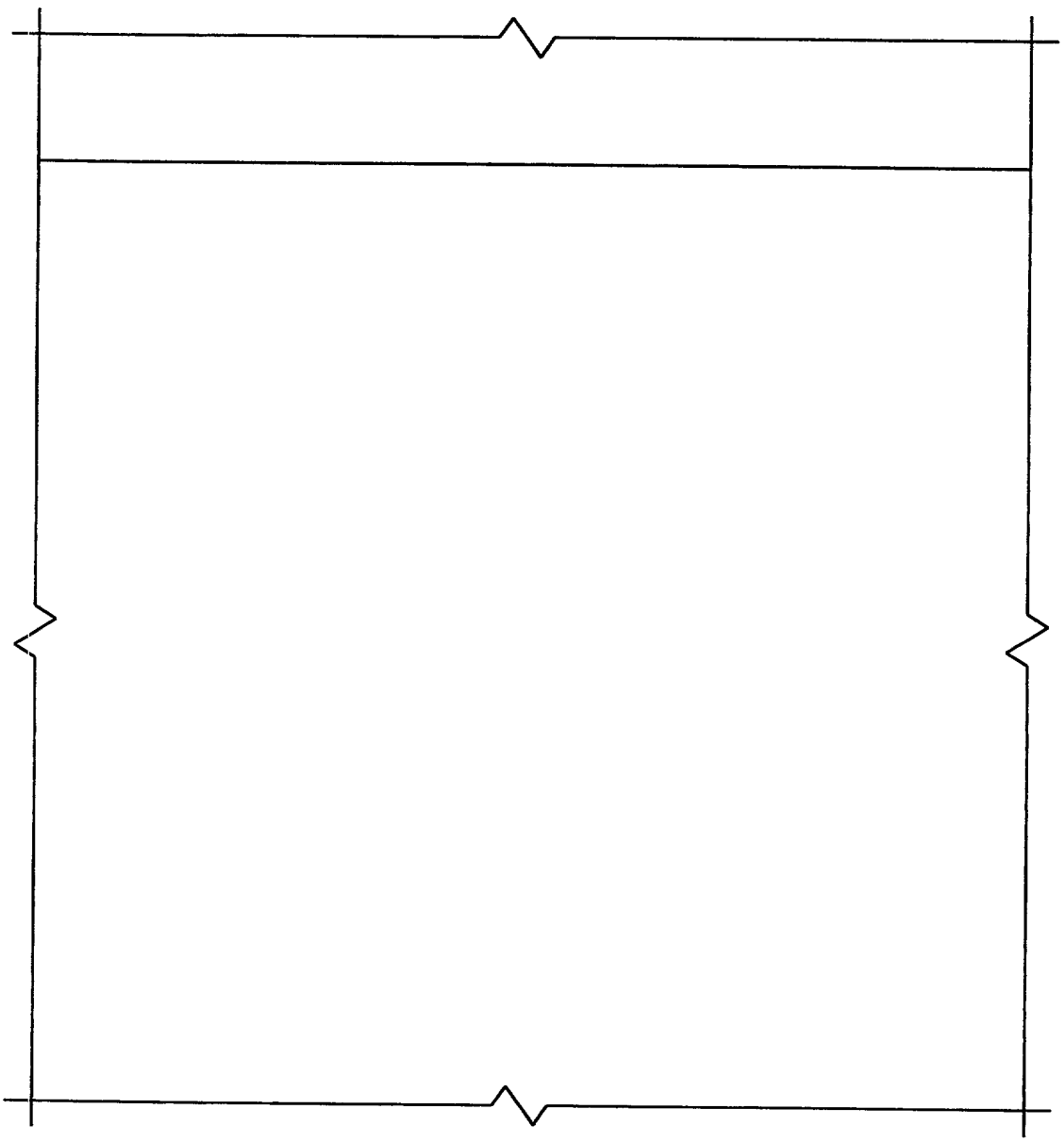


Fig 8.0504050G

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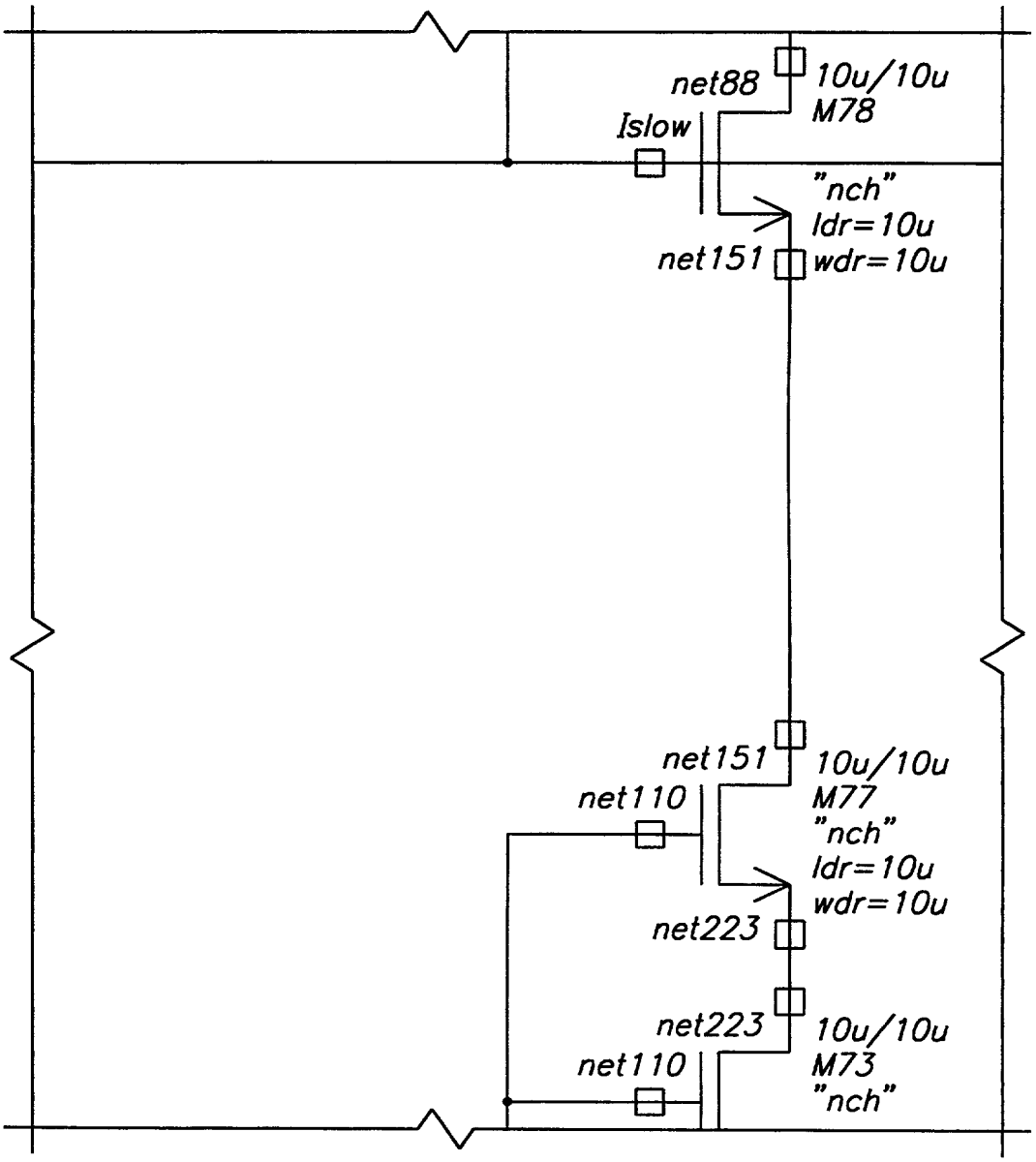


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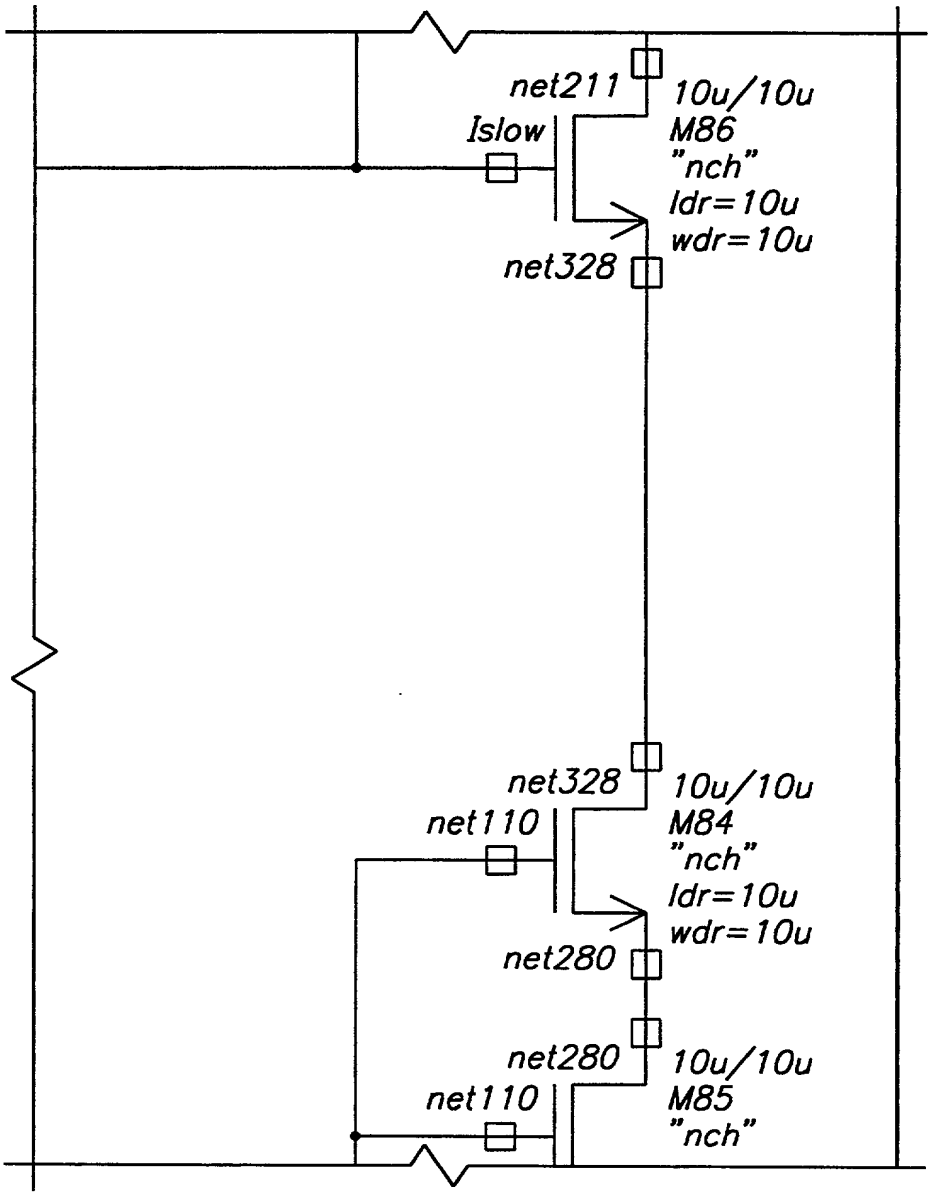


Fig 8.0504050d

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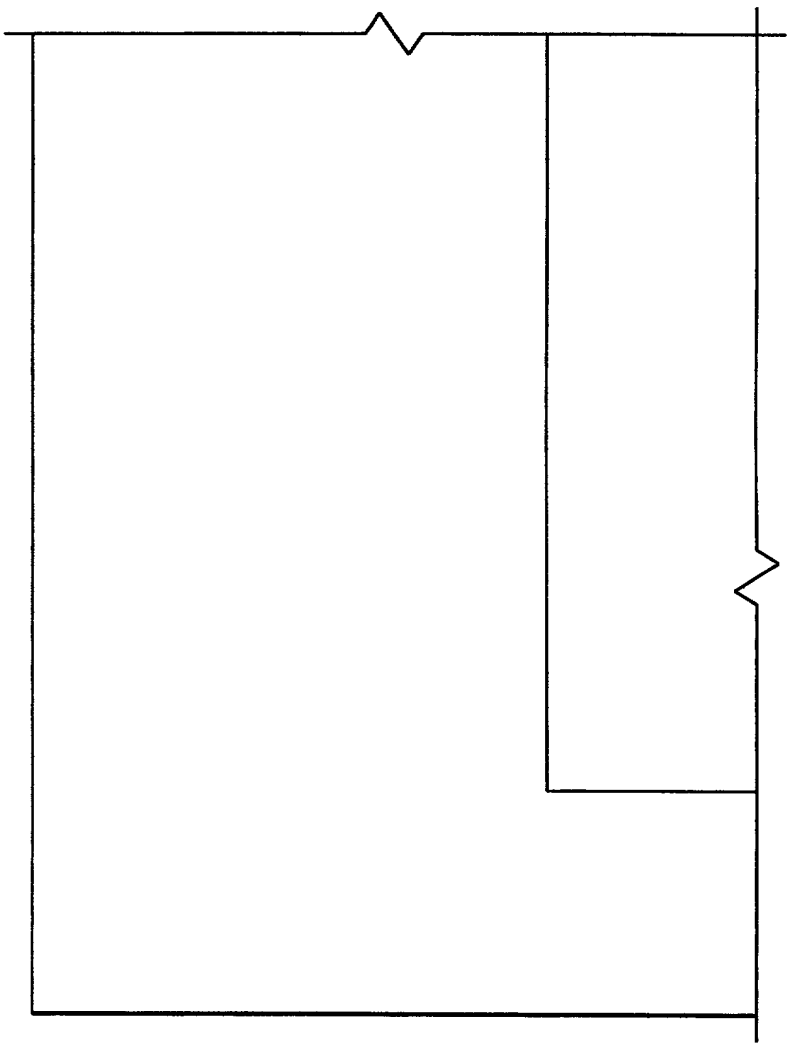


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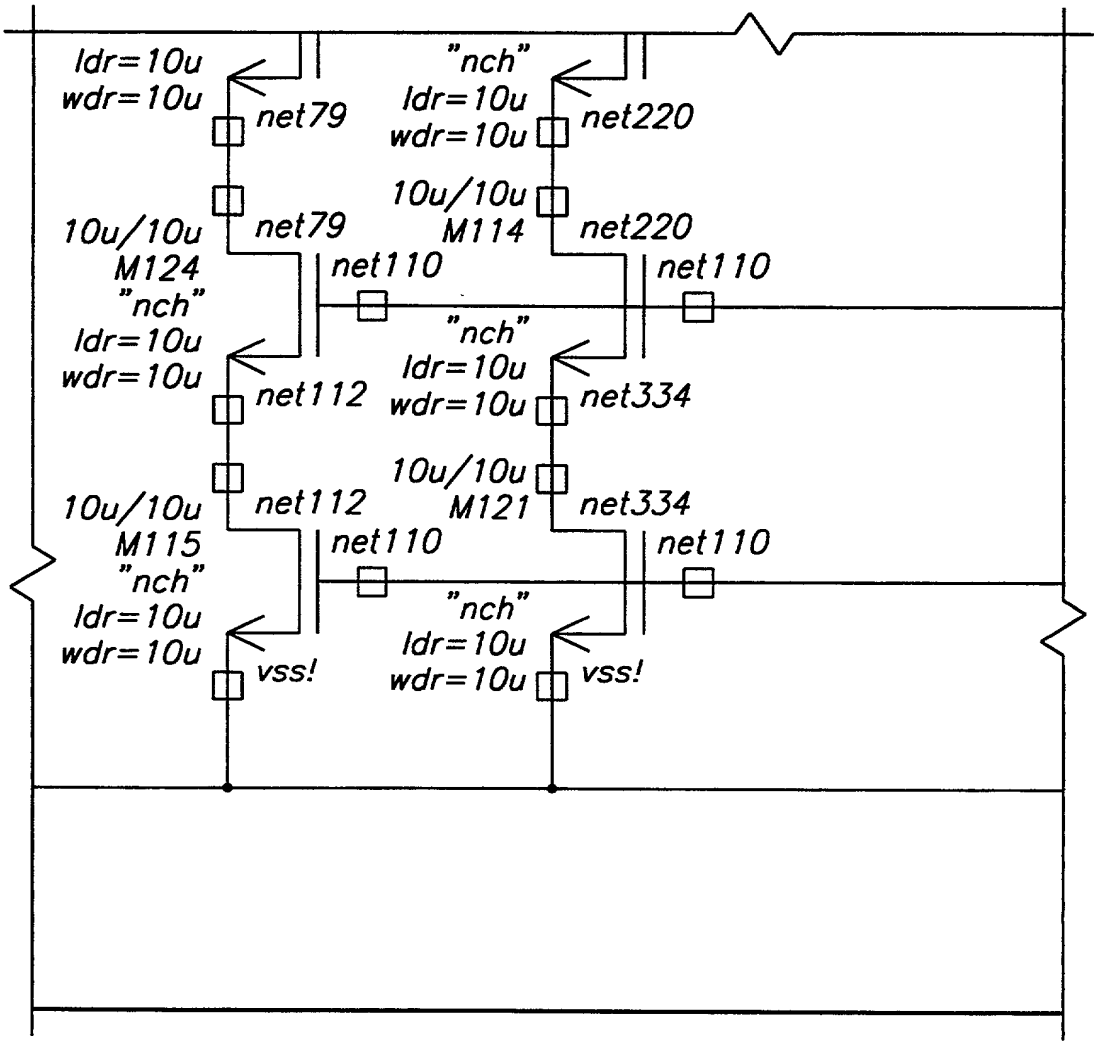


Fig 8,050,405 B

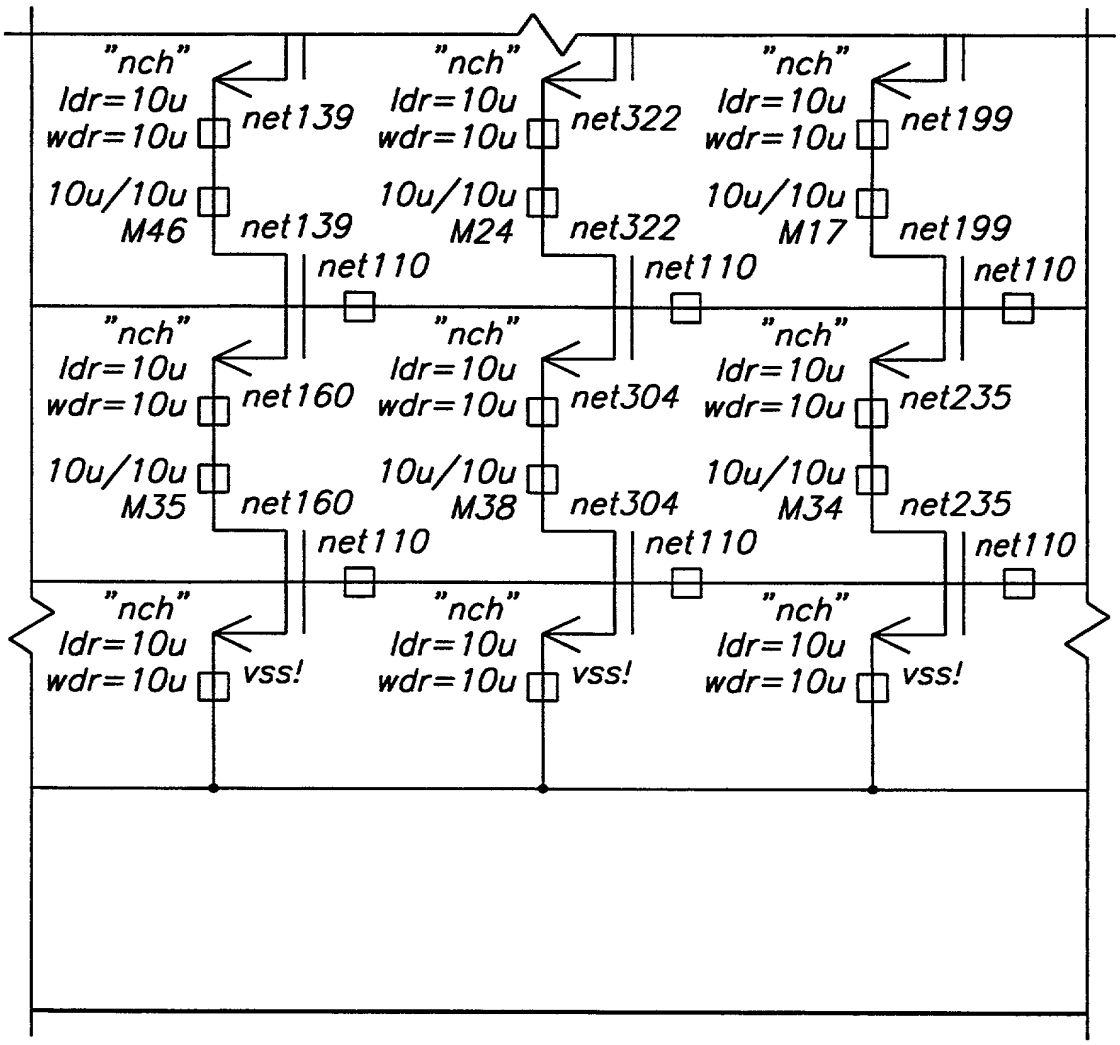

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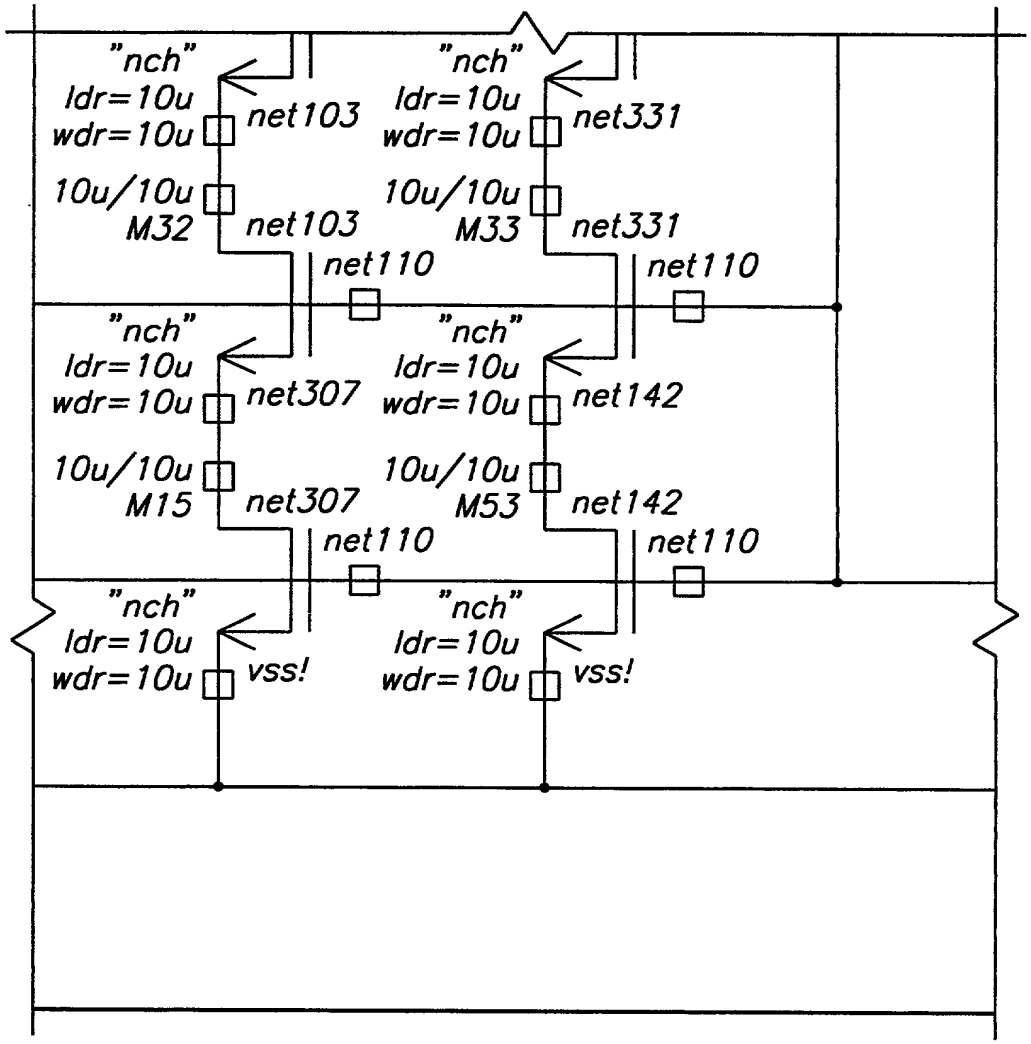


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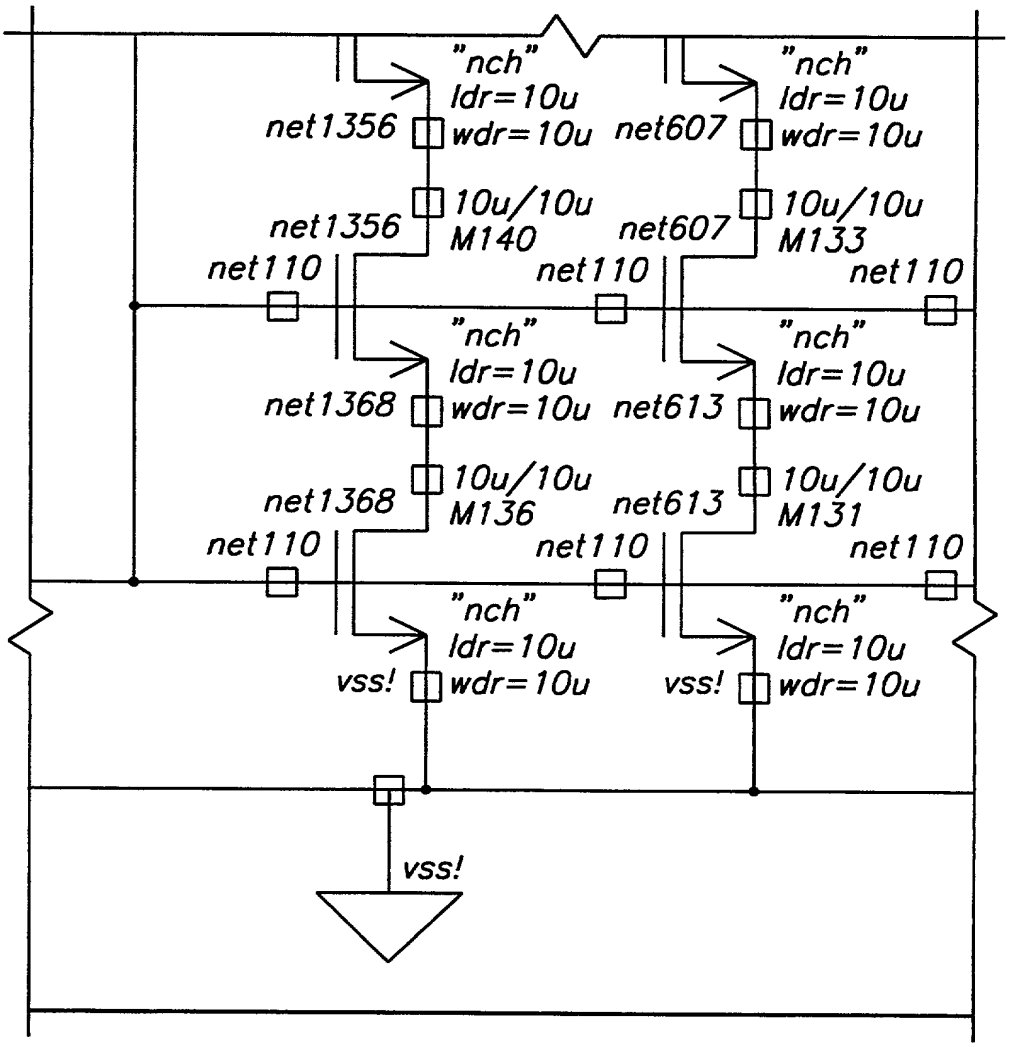


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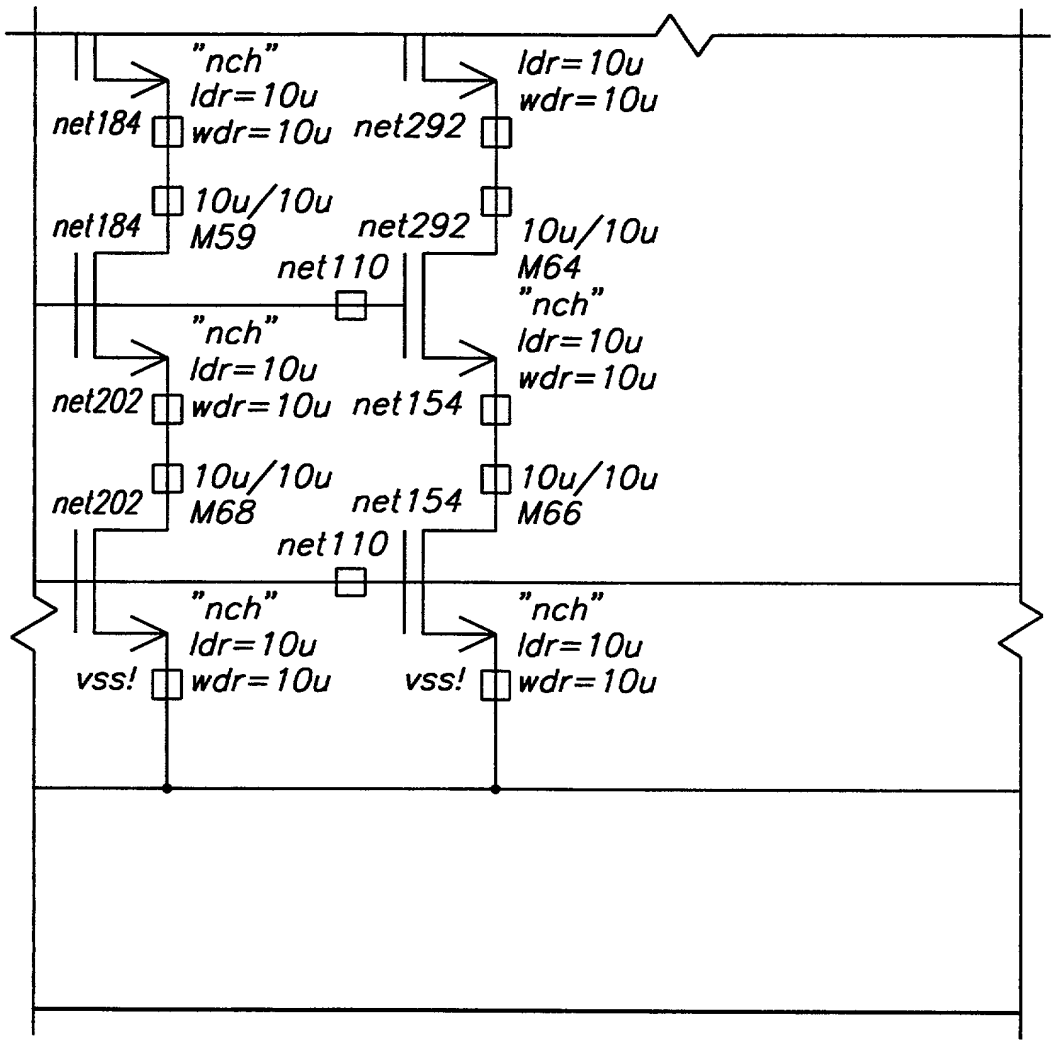


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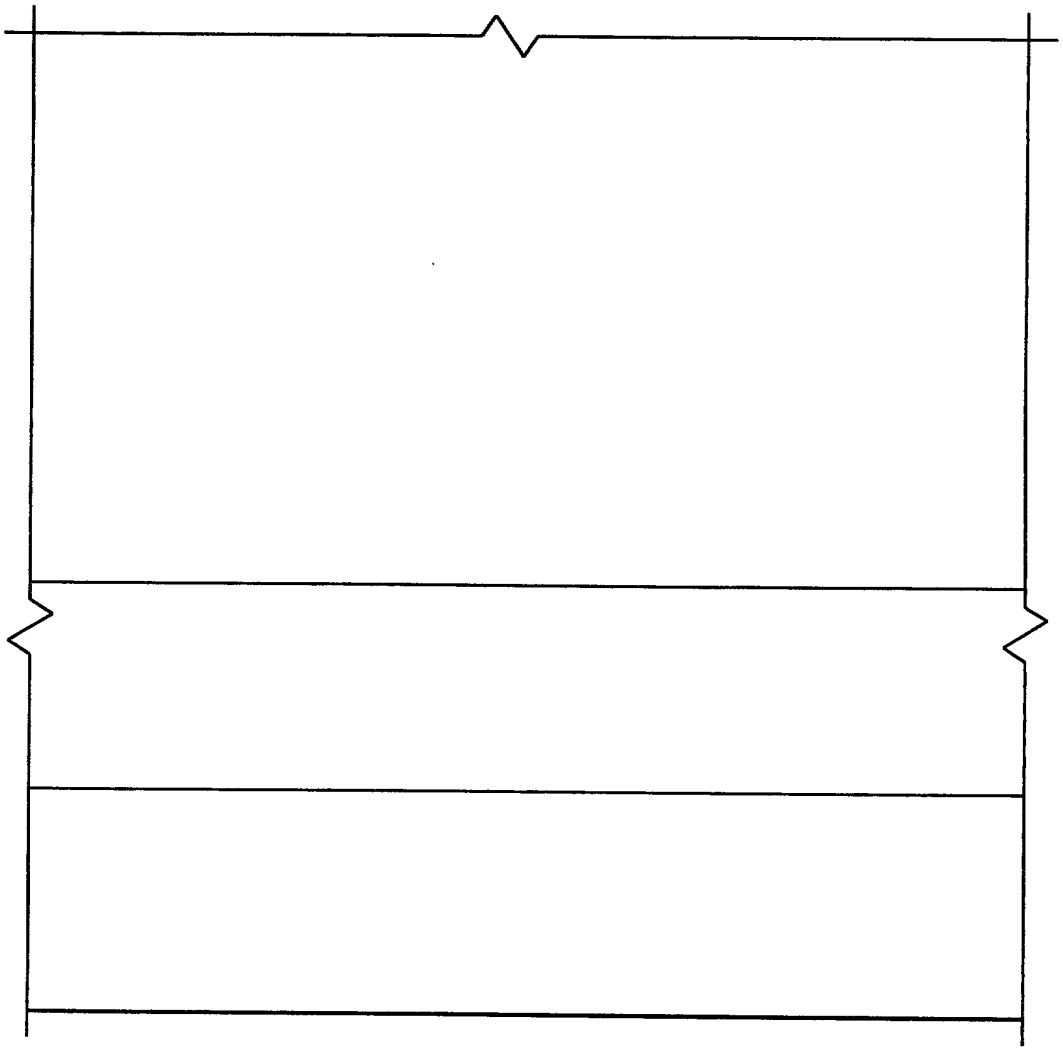


Fig 8.0504056

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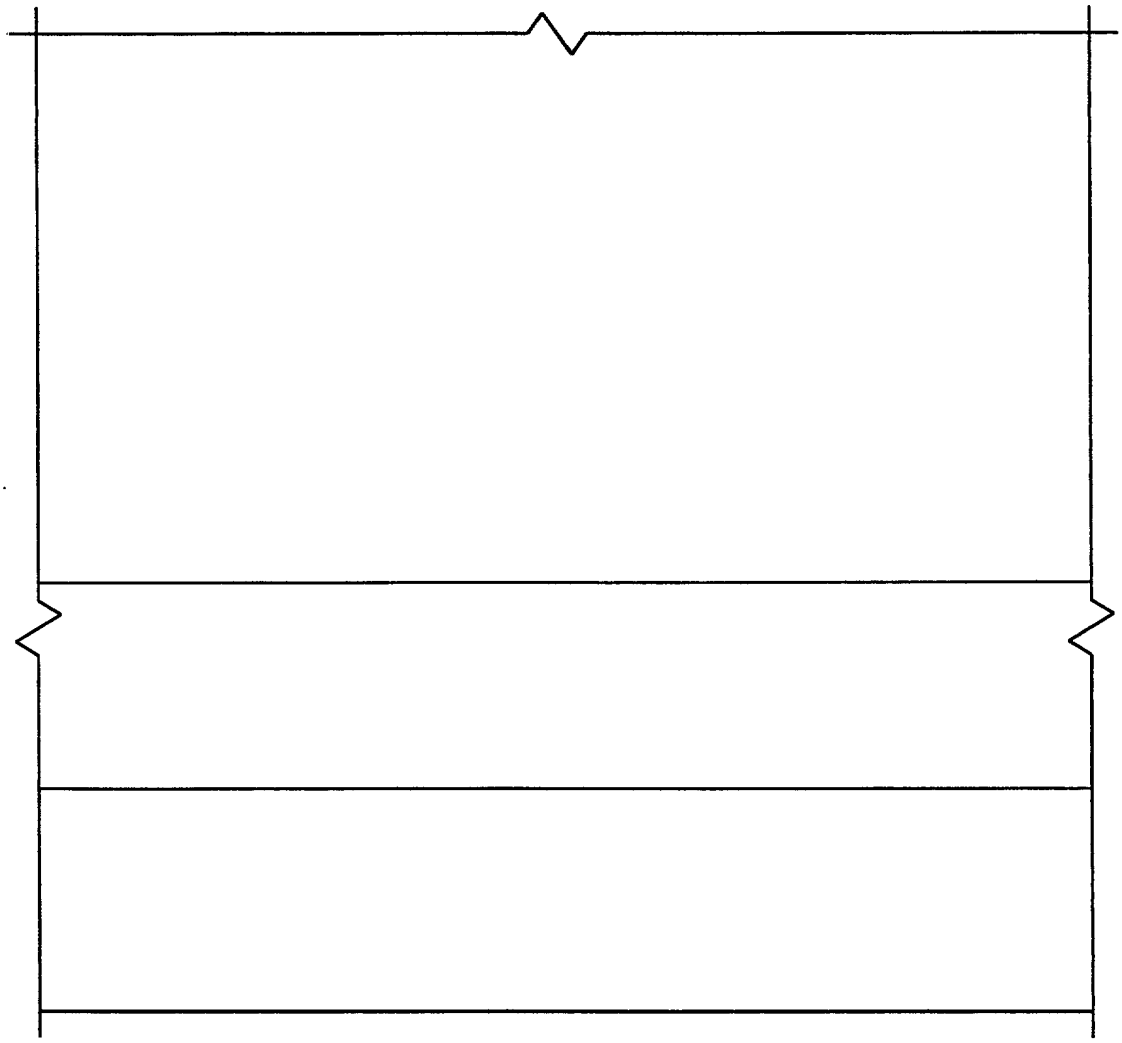


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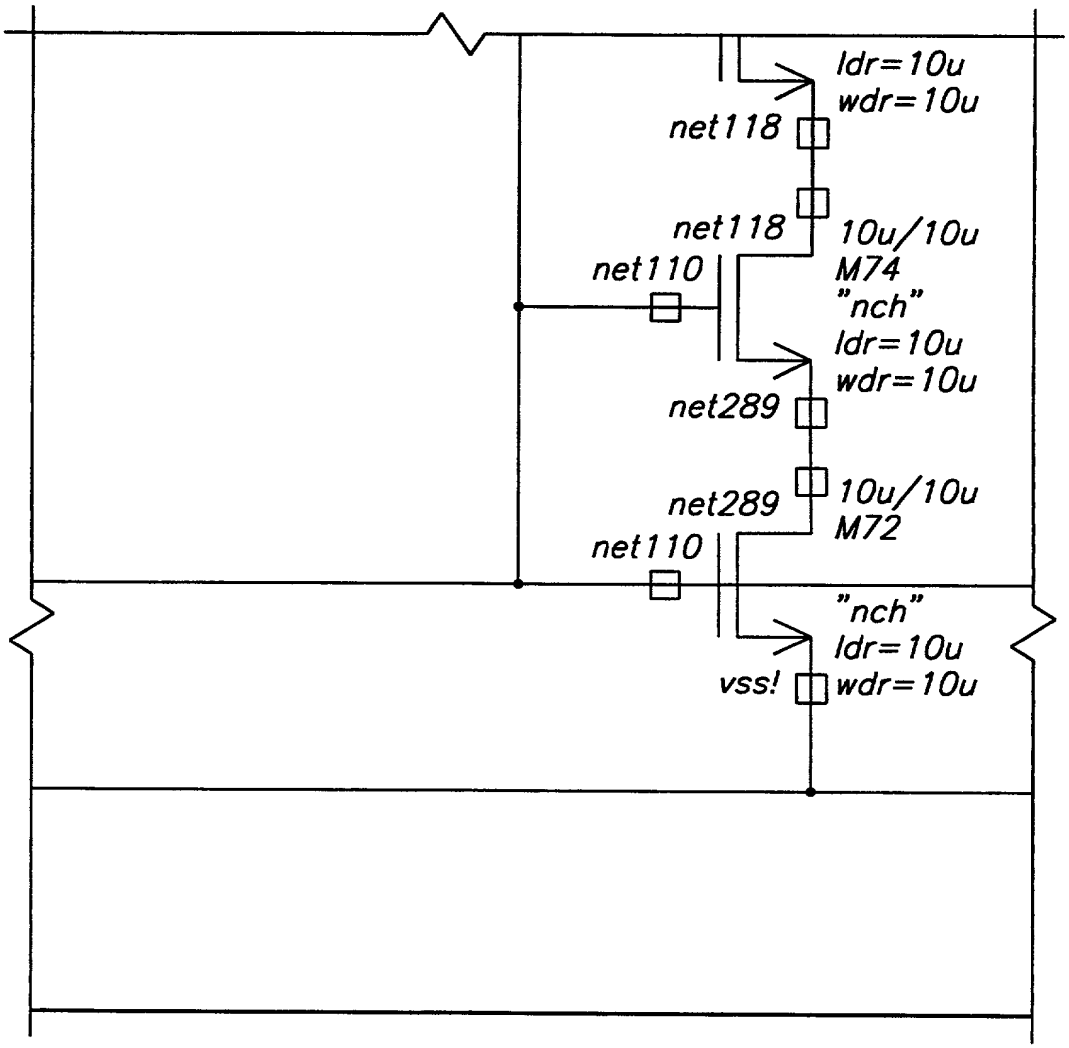


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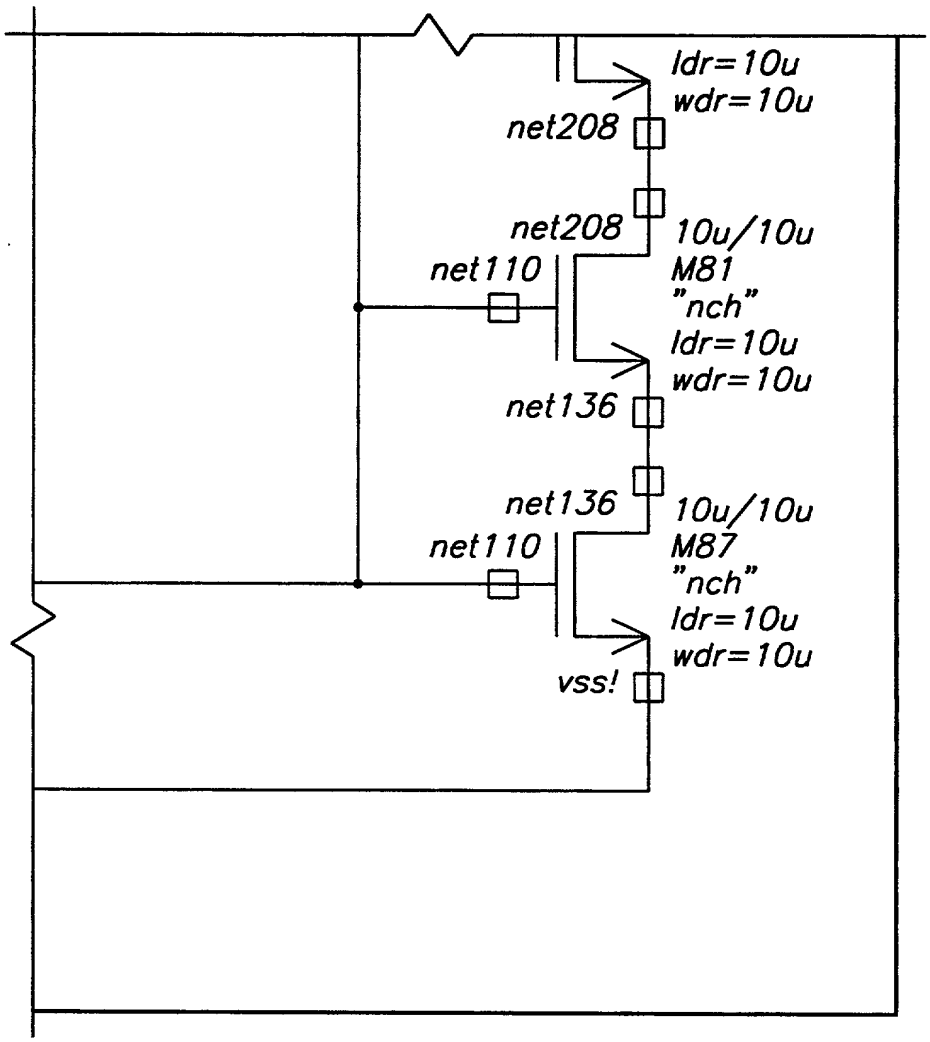

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Fig 8,054,051

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Fig 8.0505

1757/3273

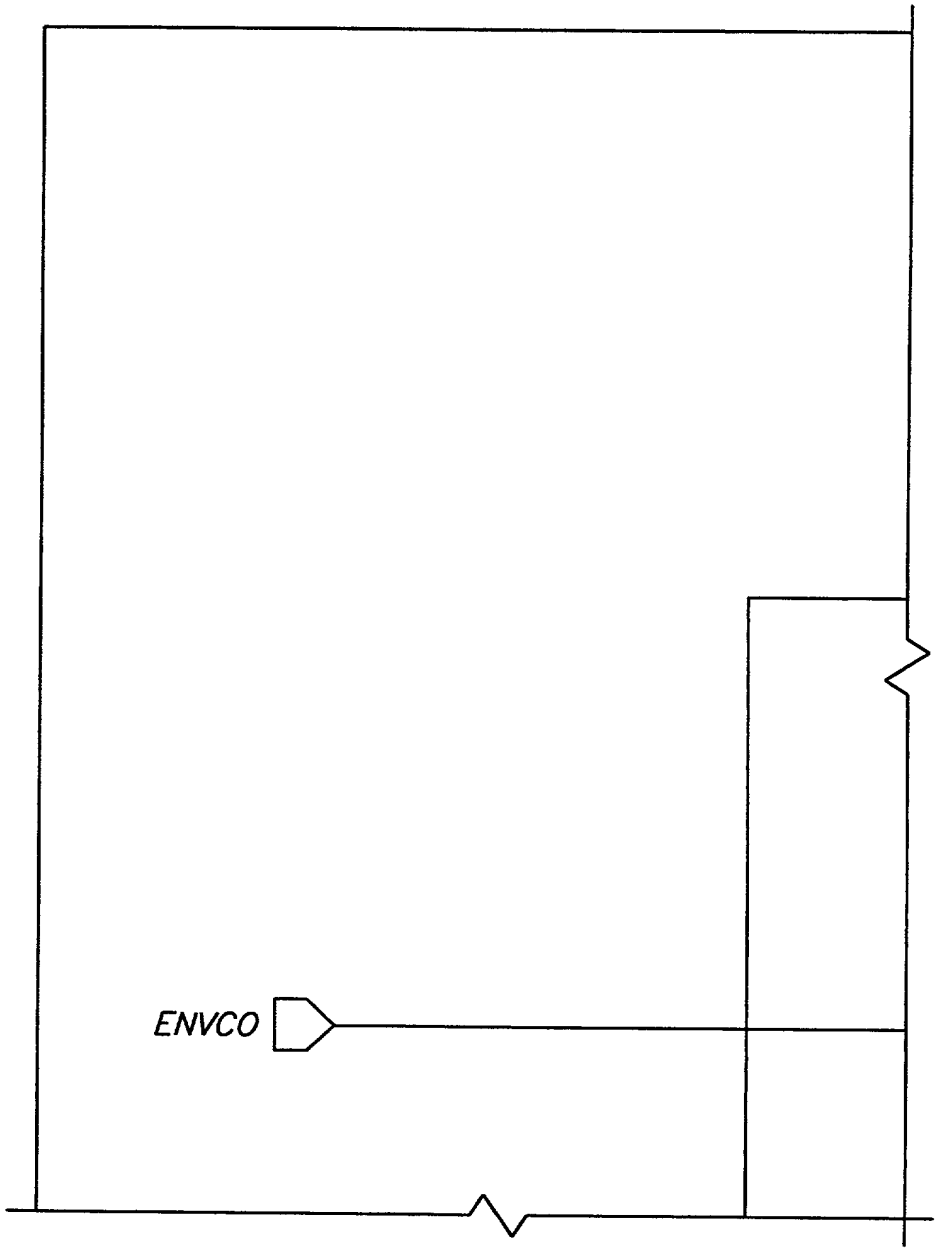


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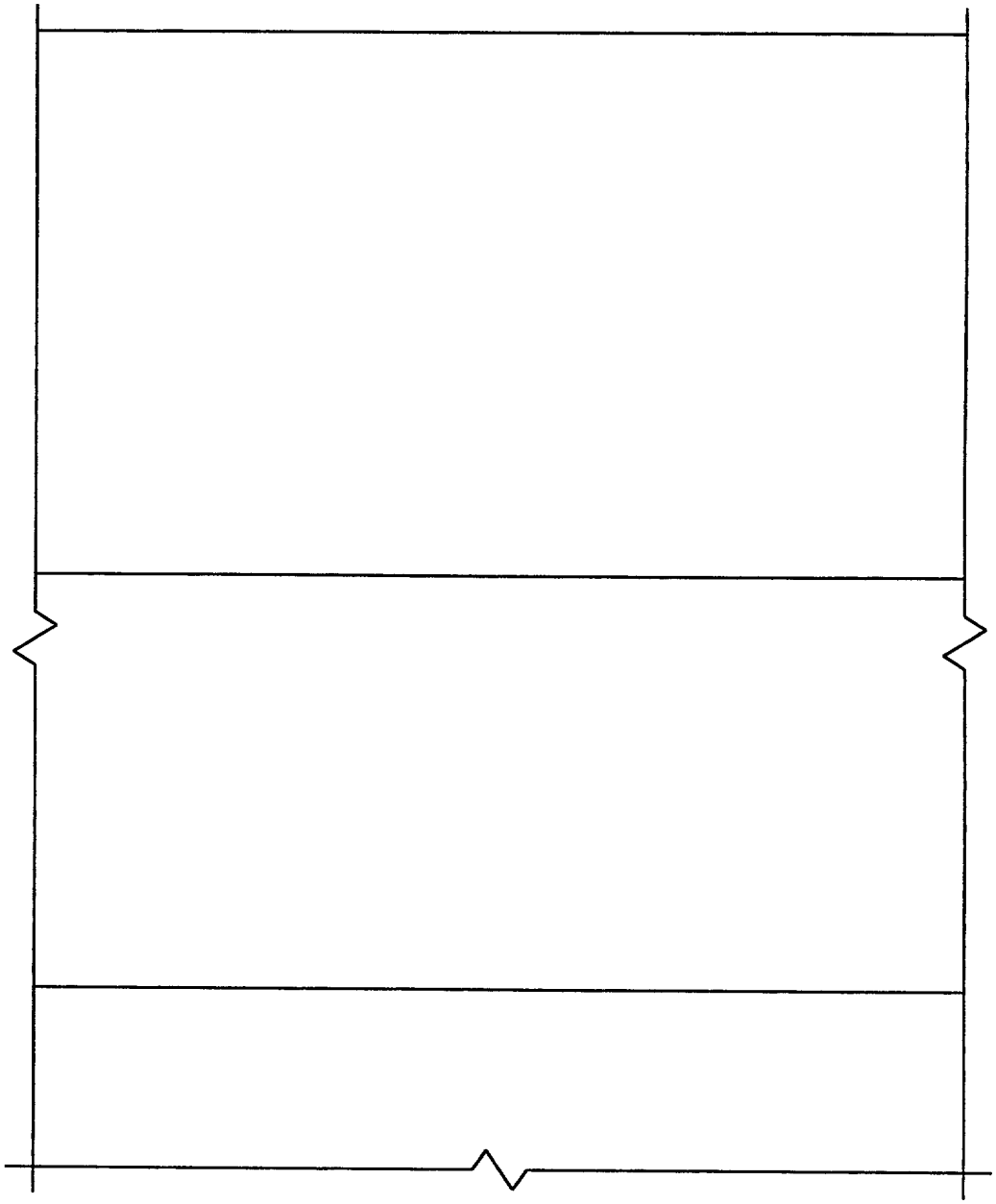


Fig 8.0505AB

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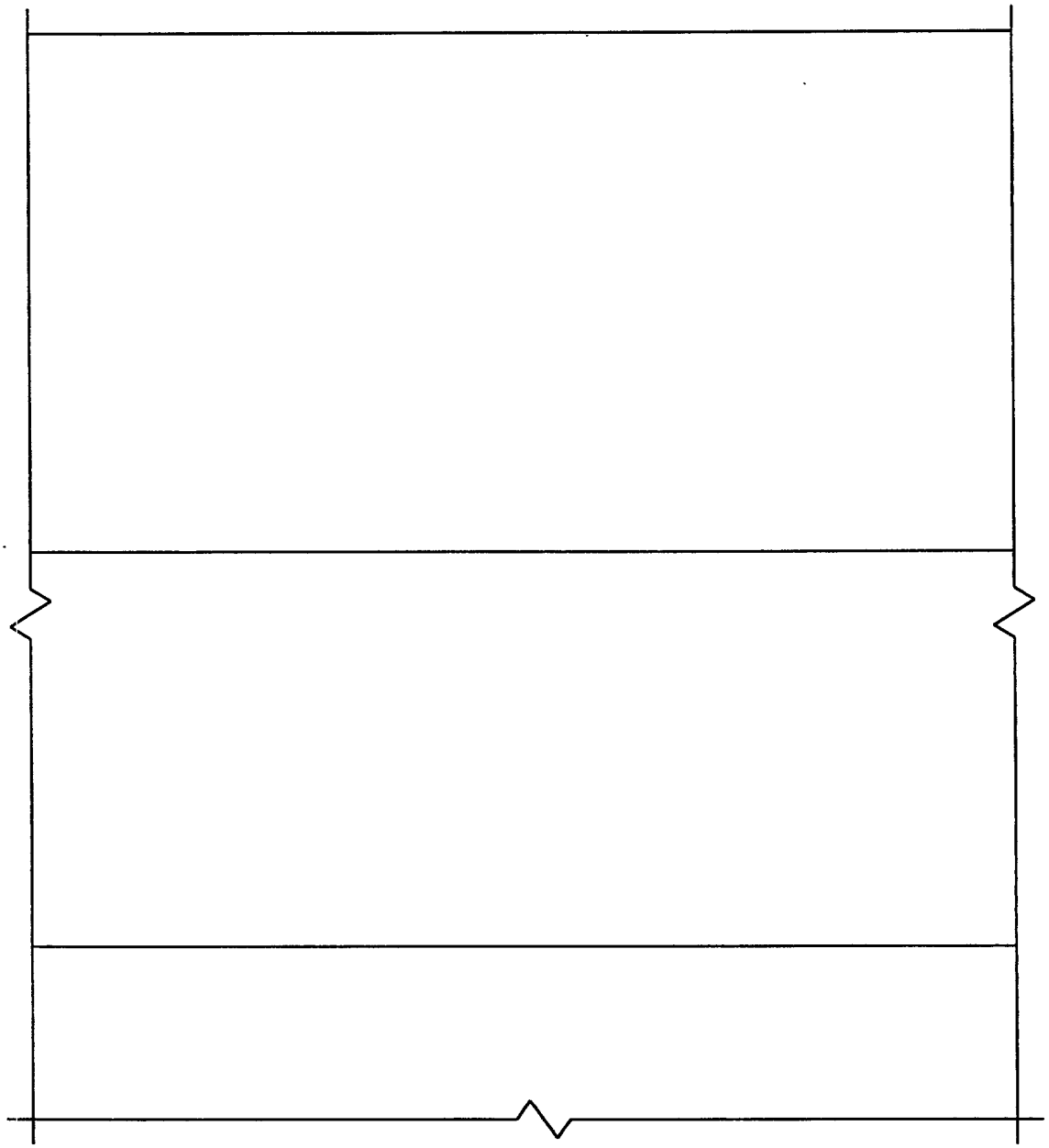
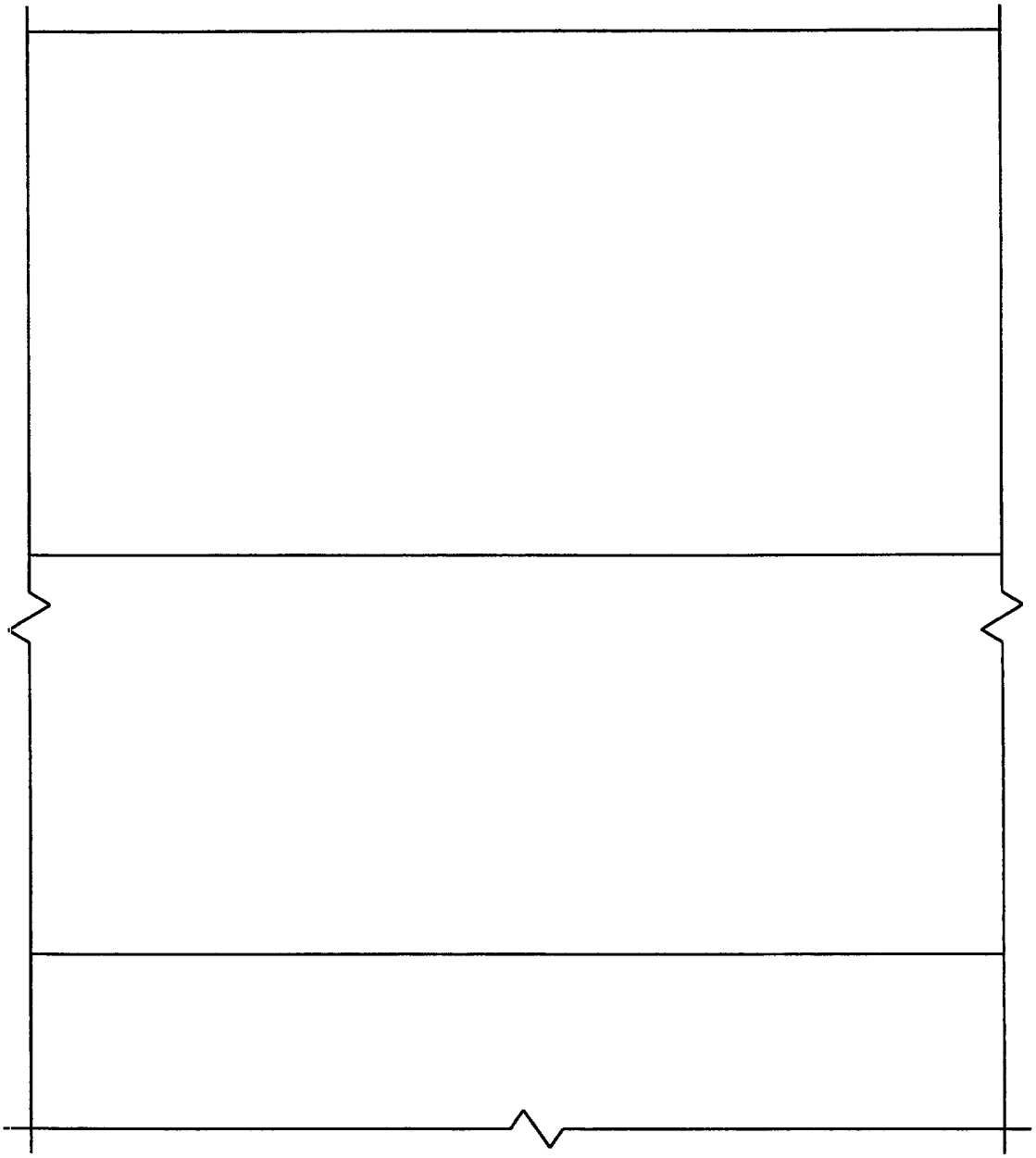


Fig 8.0505AC

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Eq 8.050SAD

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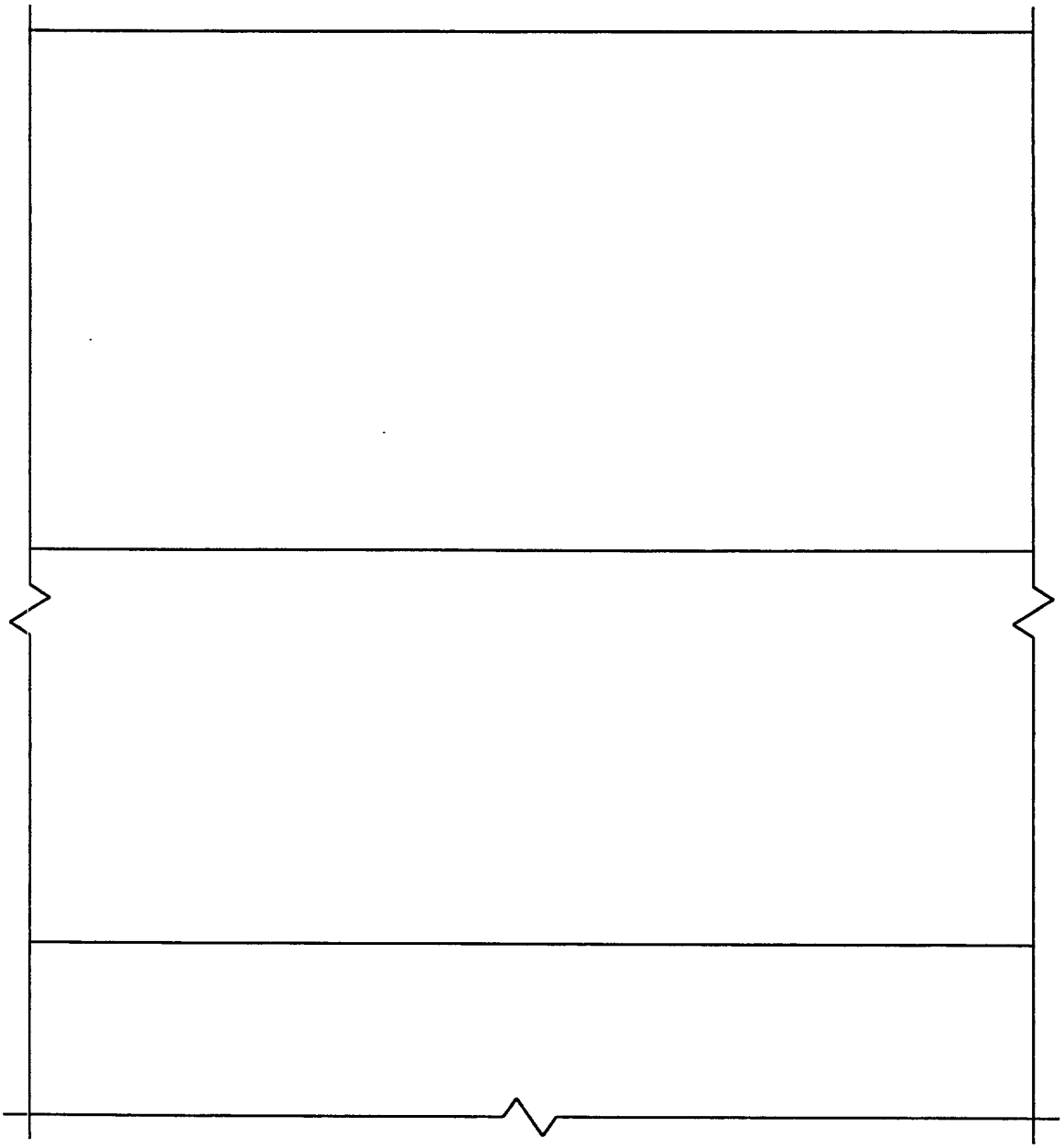


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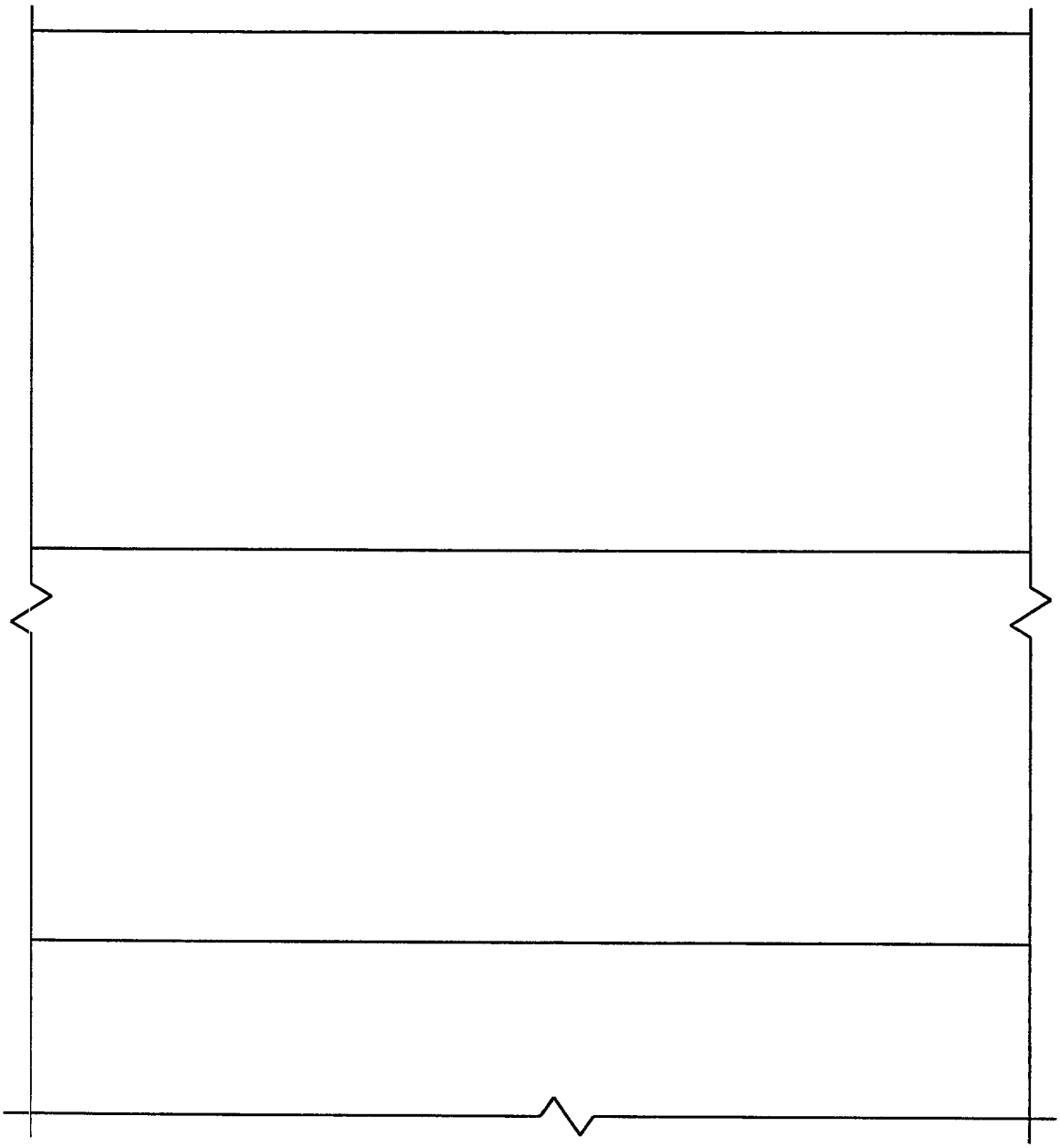


Fig 8.050SAF

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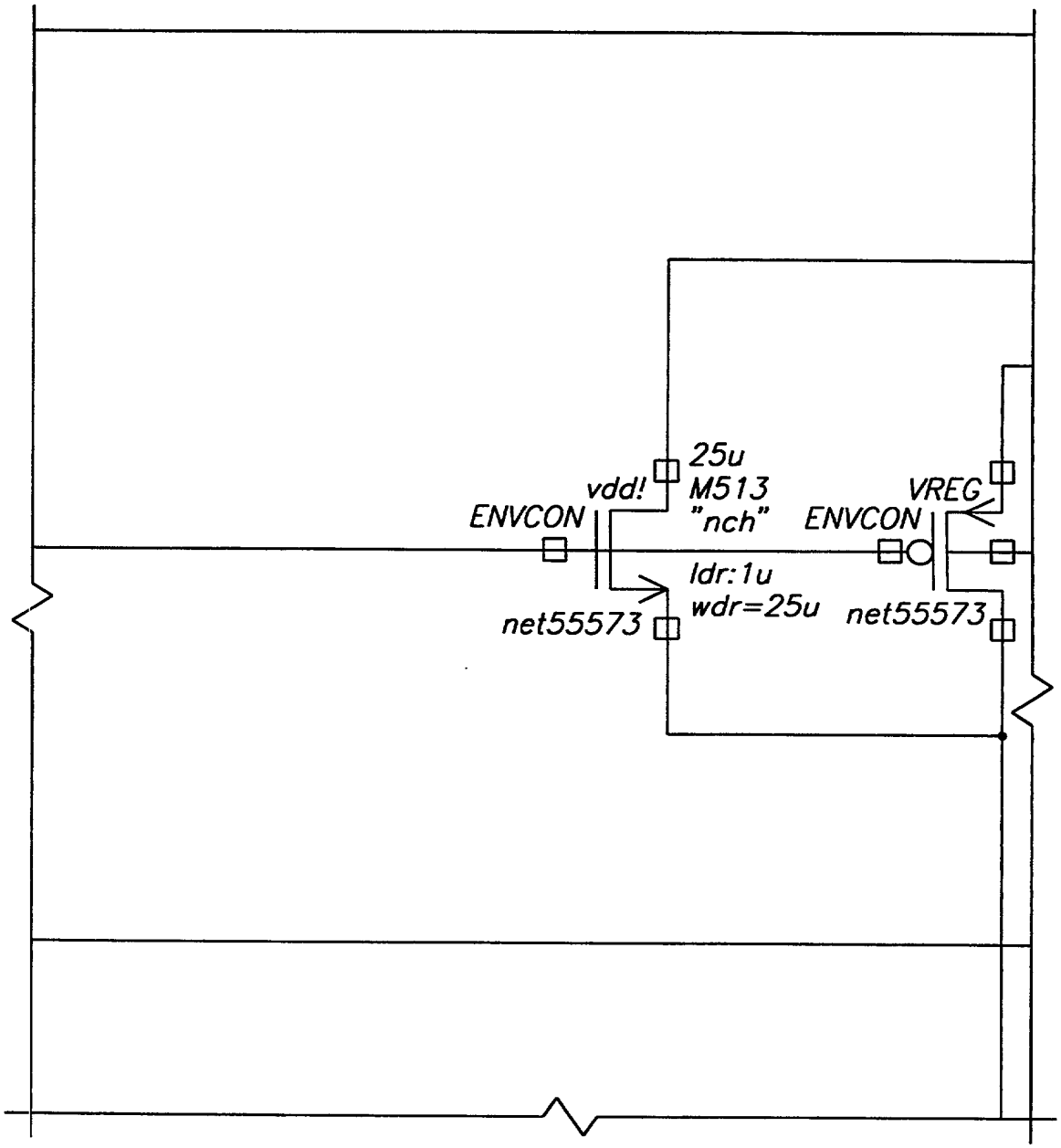
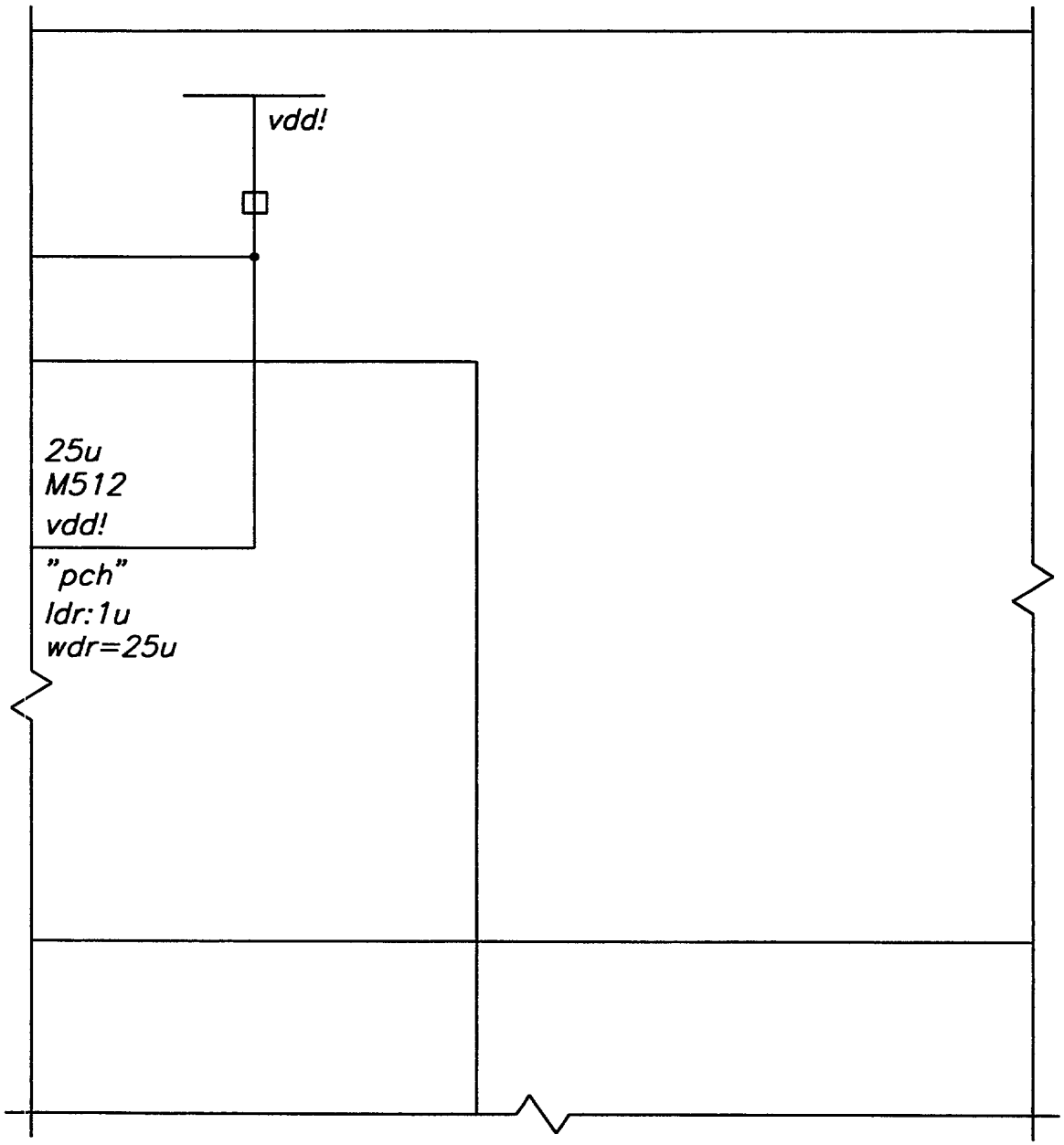

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Fig 8.050546



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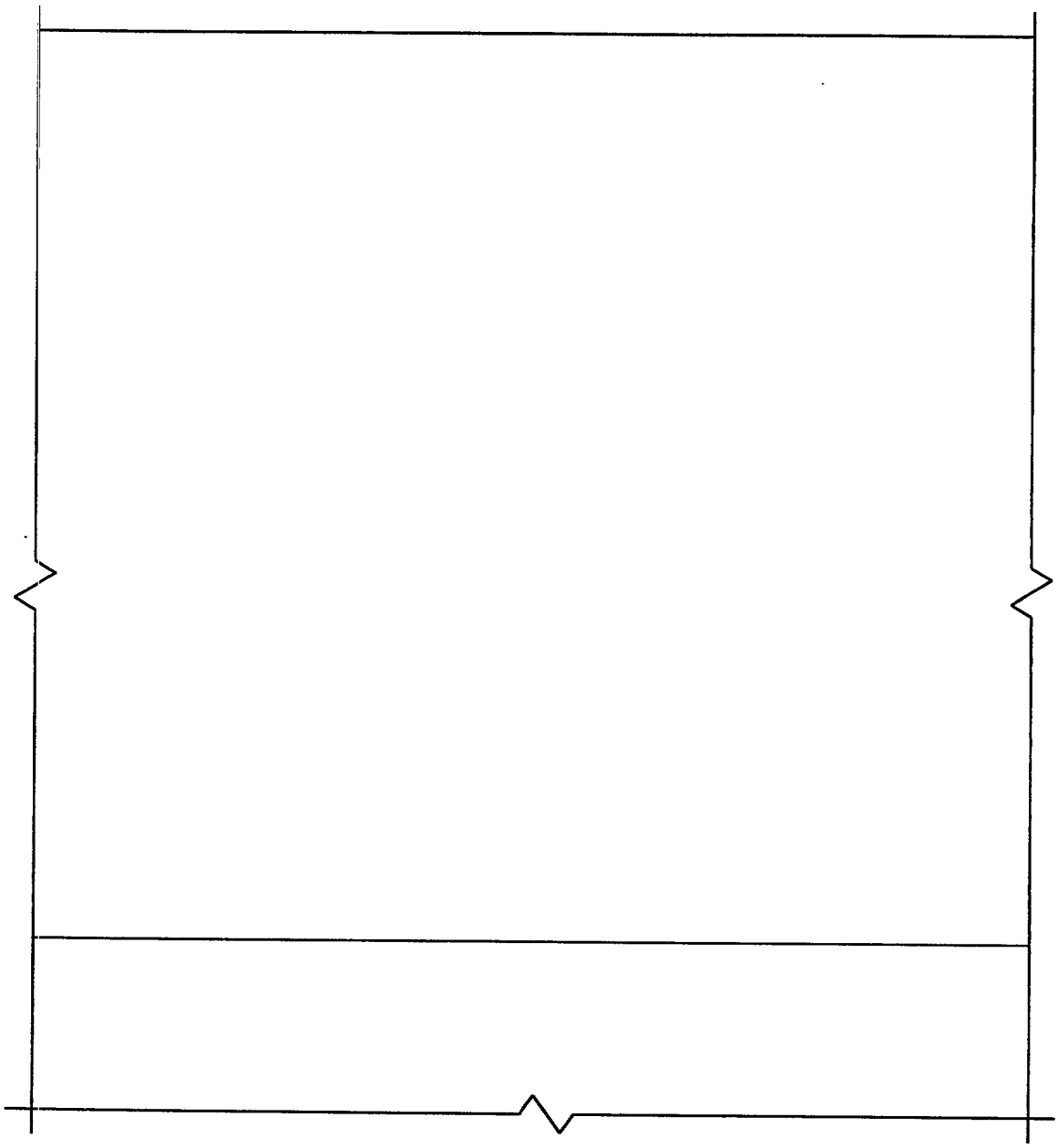
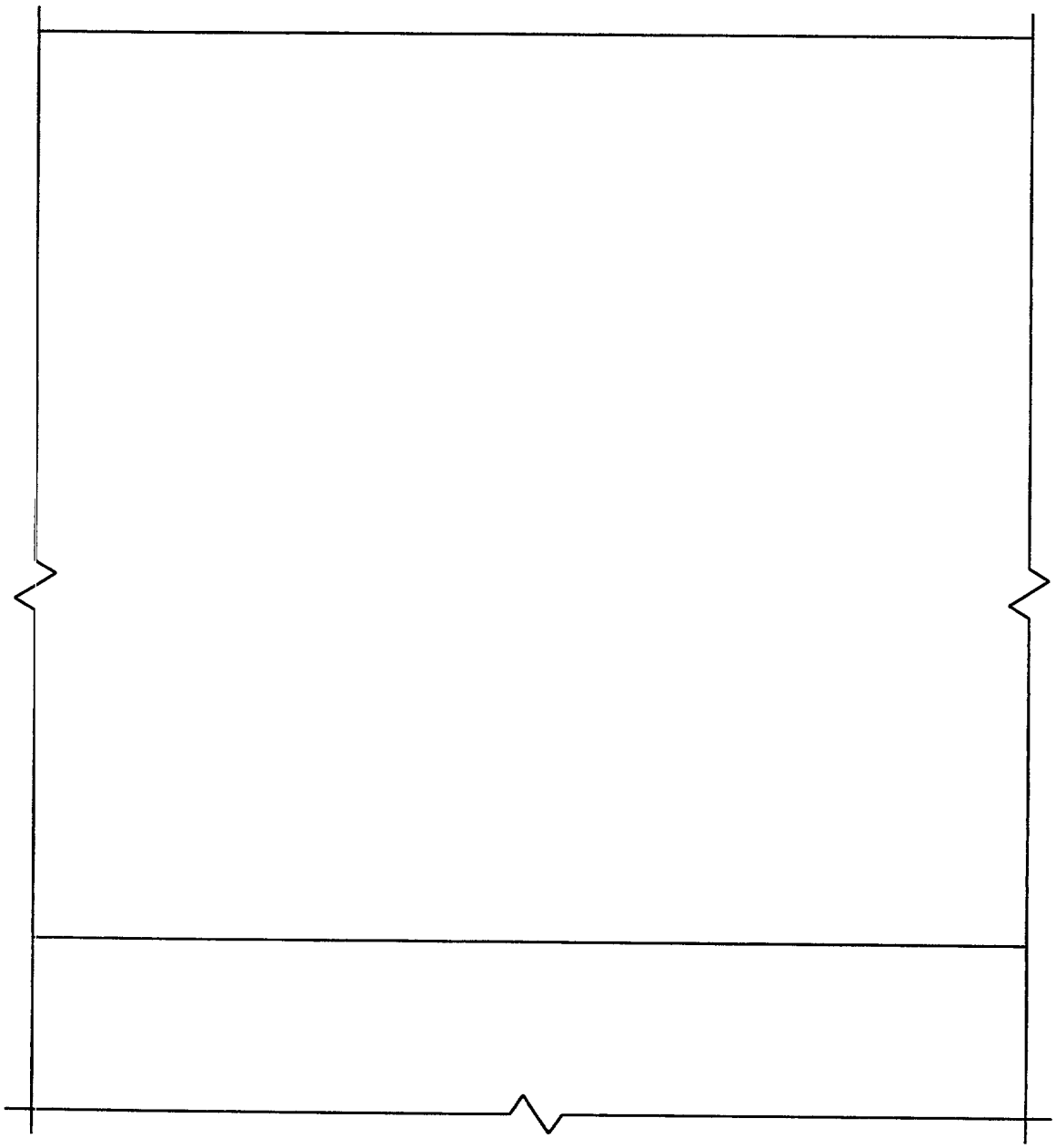


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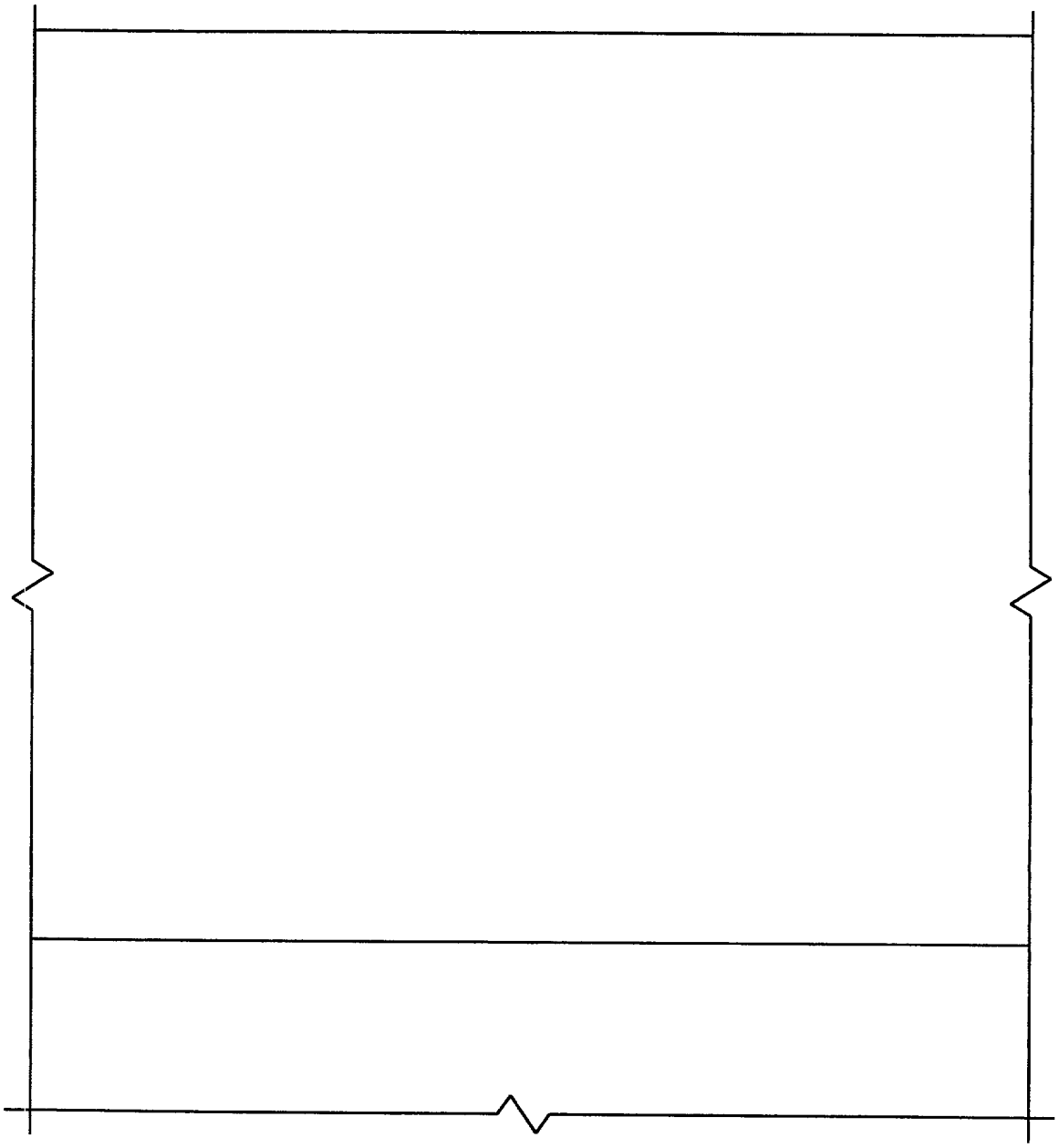
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Eq 8.0505A.1

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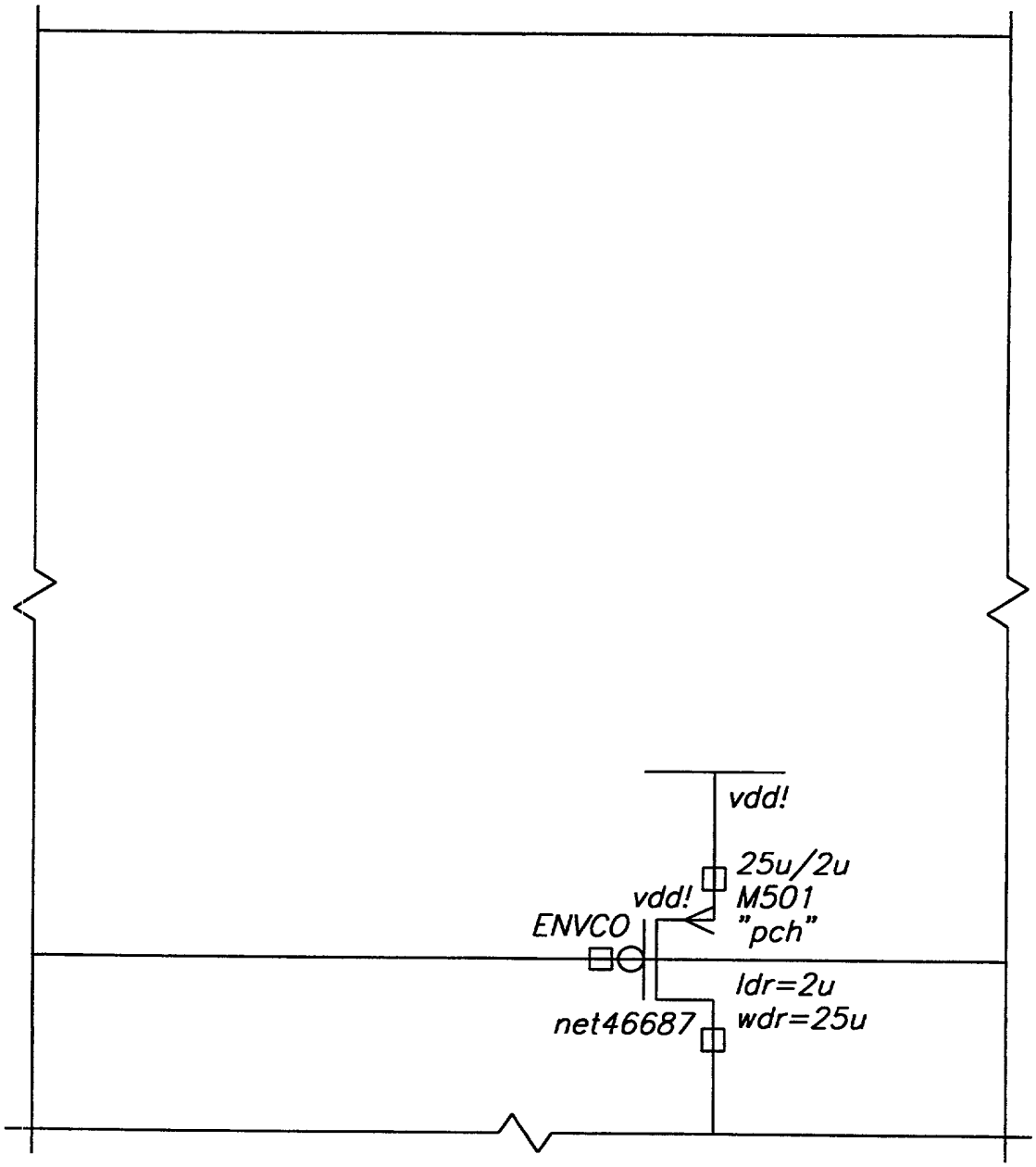


Fig 8.0505AL

US005760634A

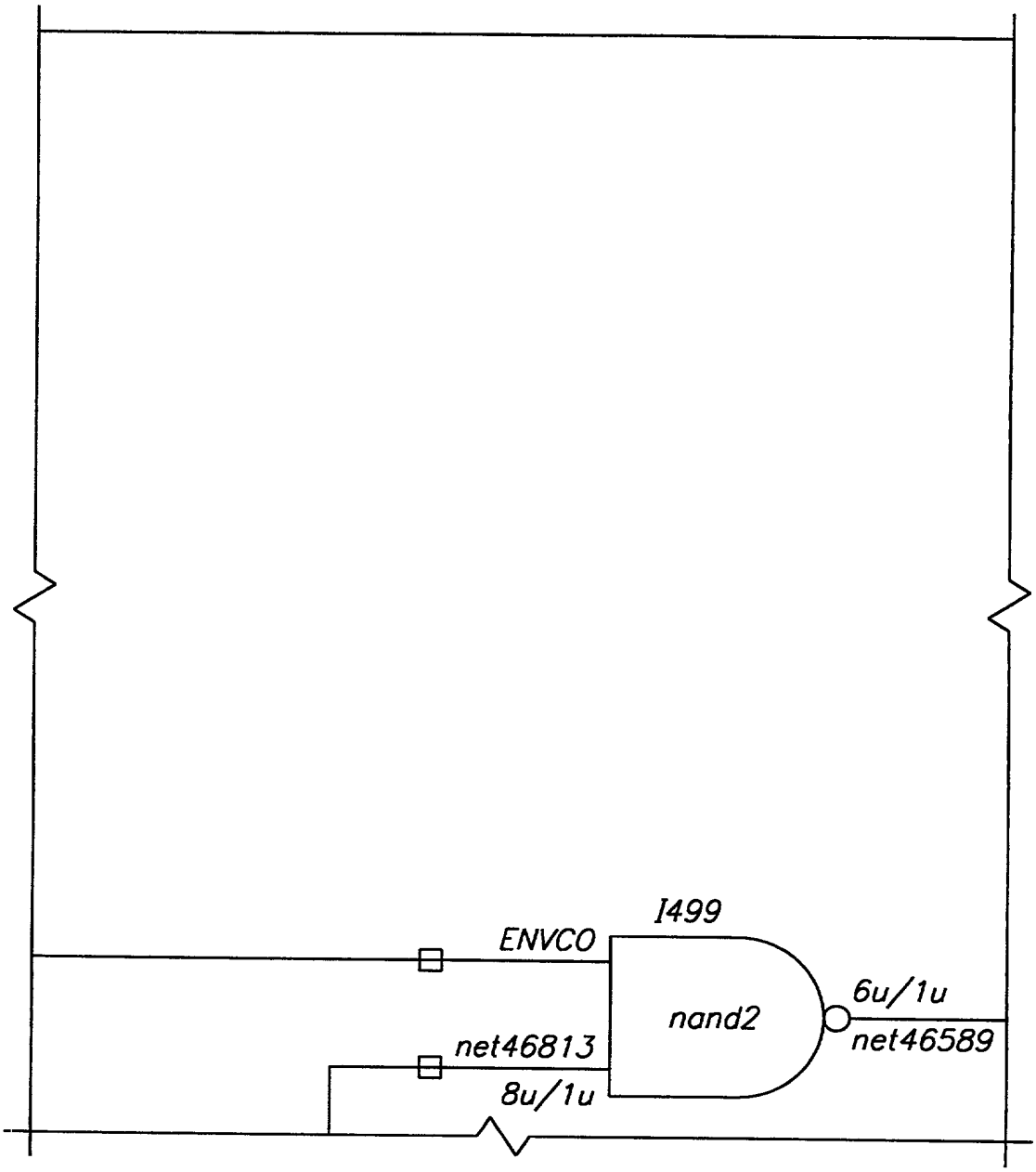
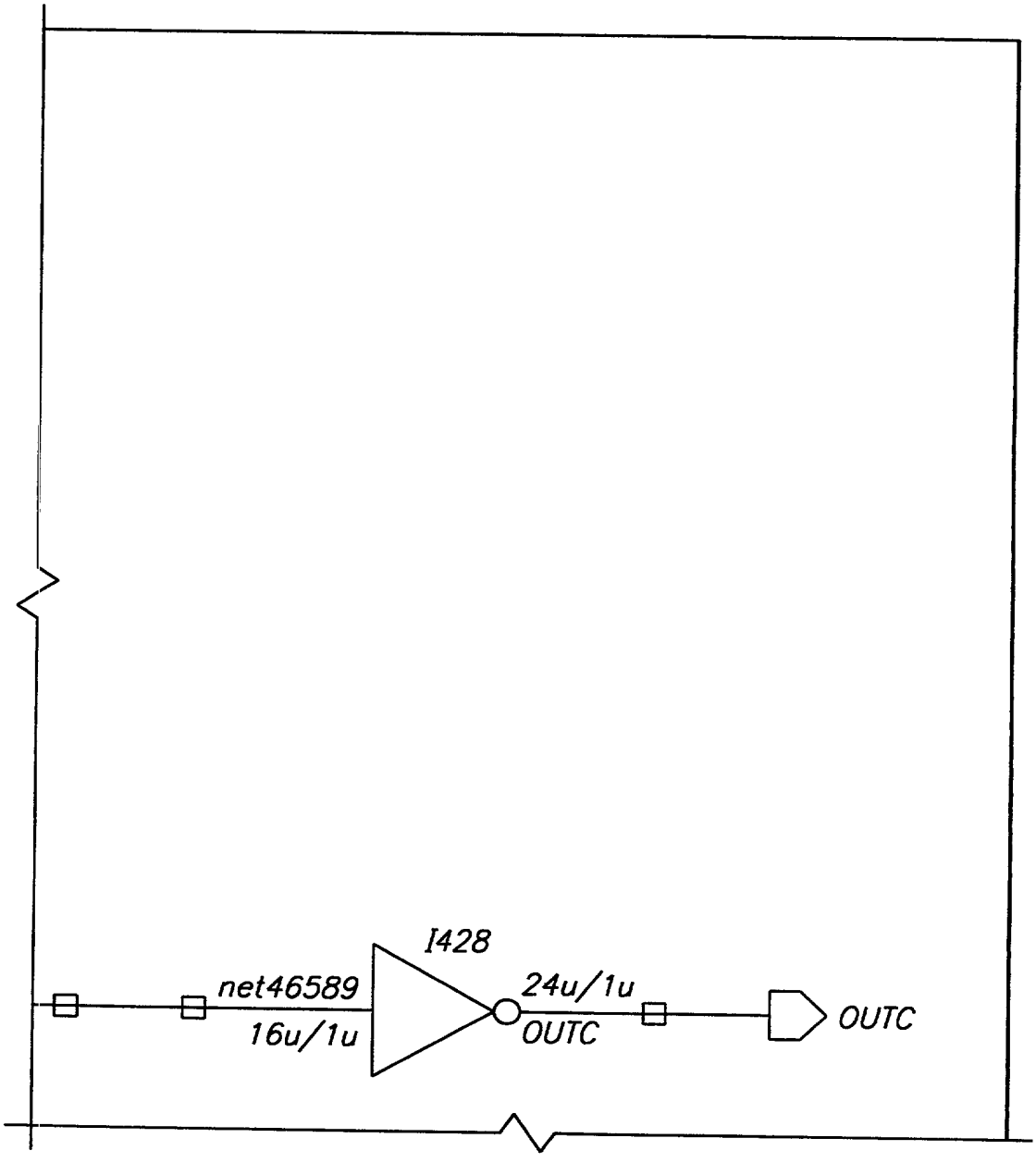


Fig 8.050SAM

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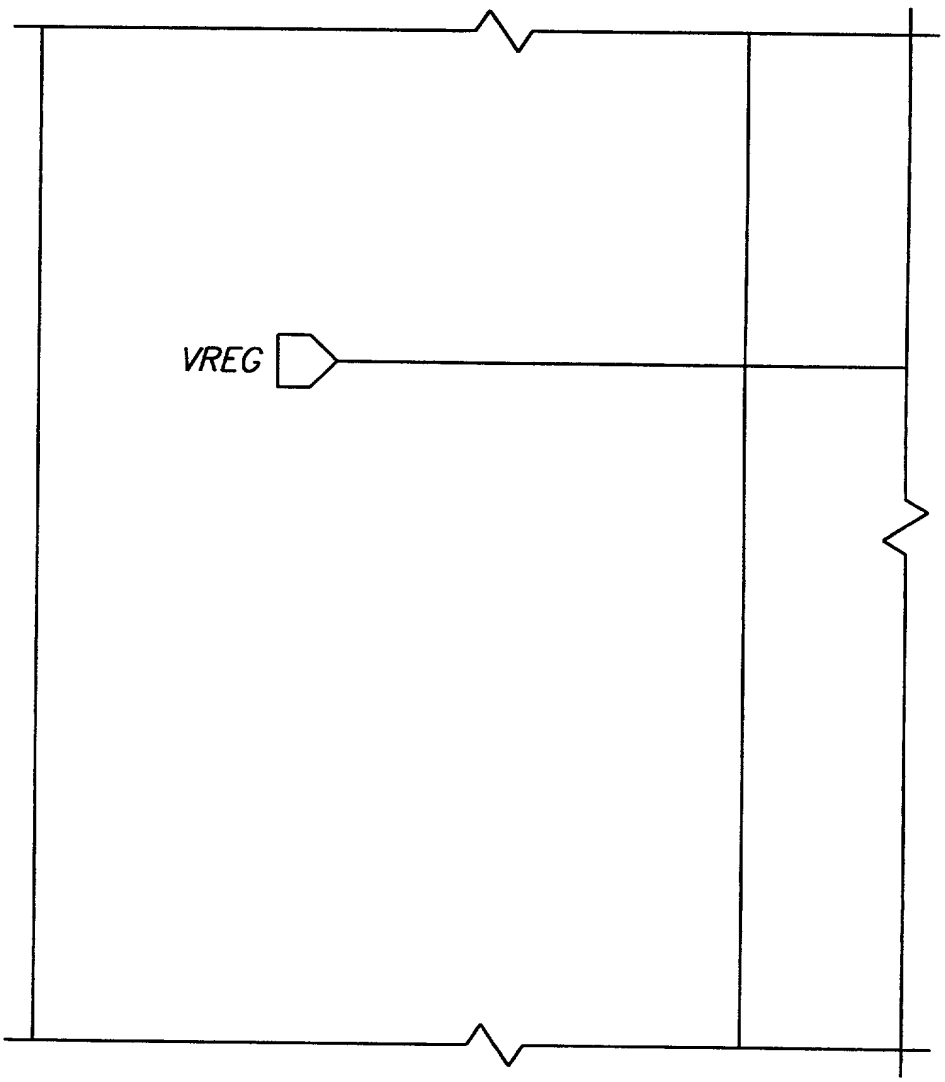
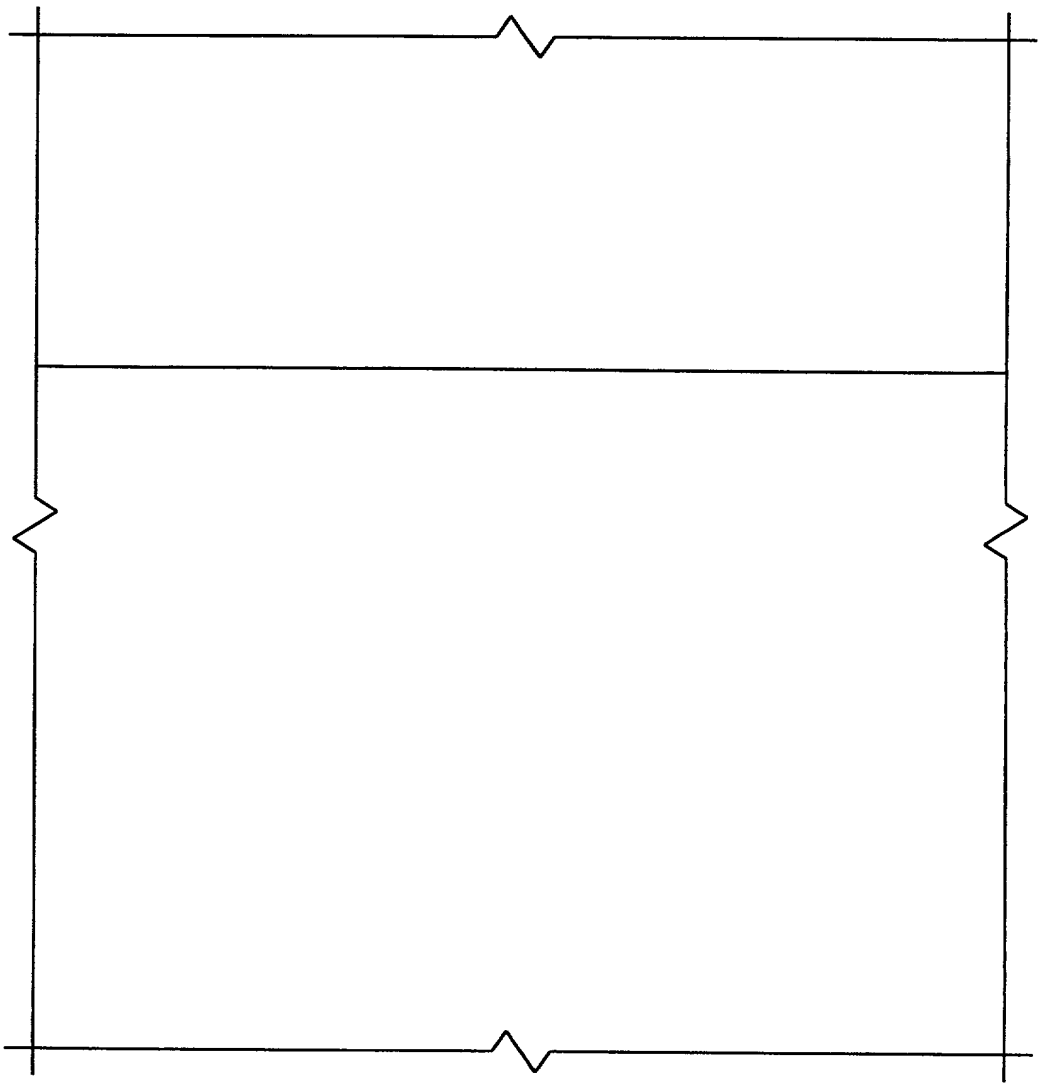


Fig 8.0505BA

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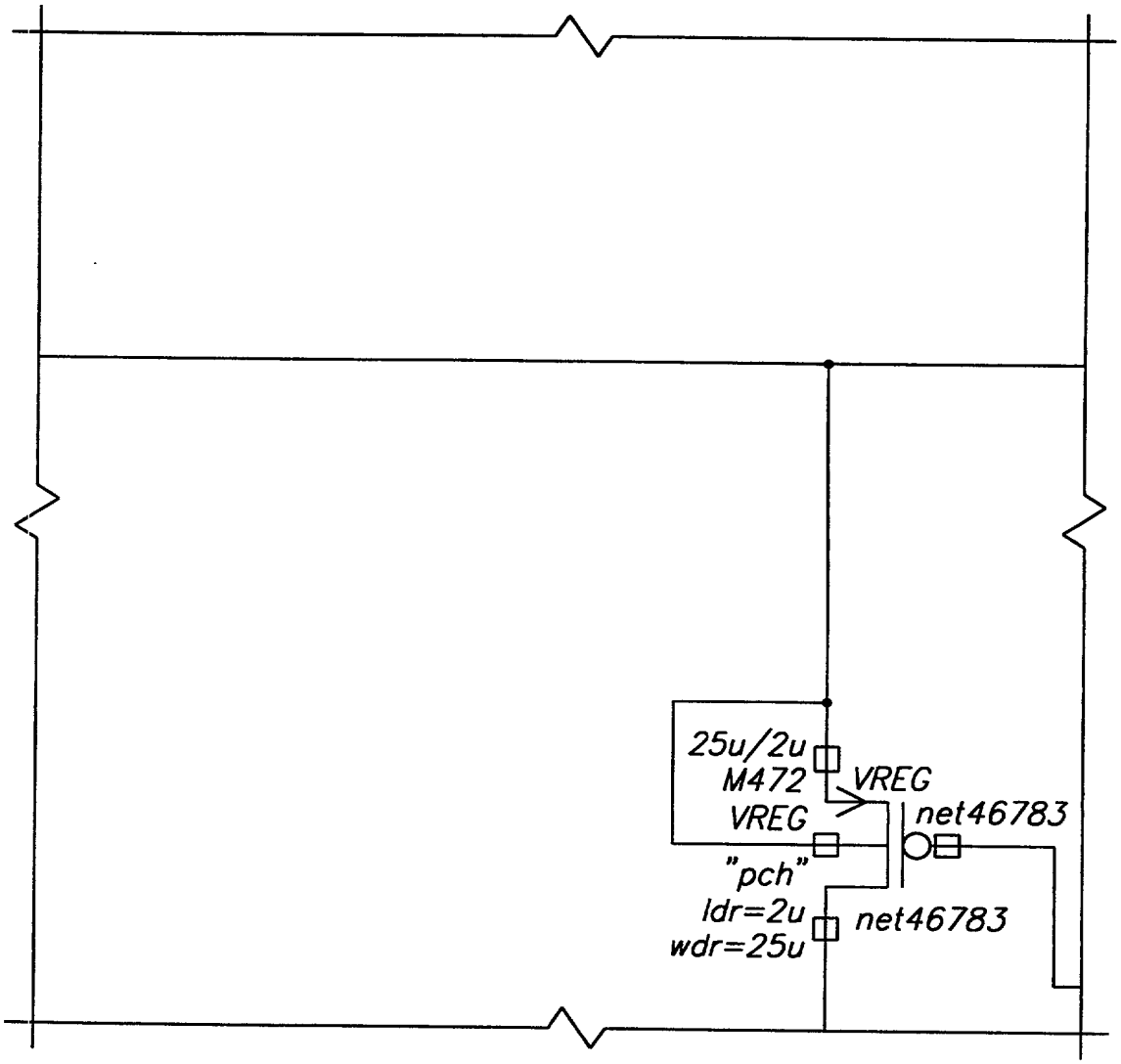


Fig 8.0505BC

US6177705B1

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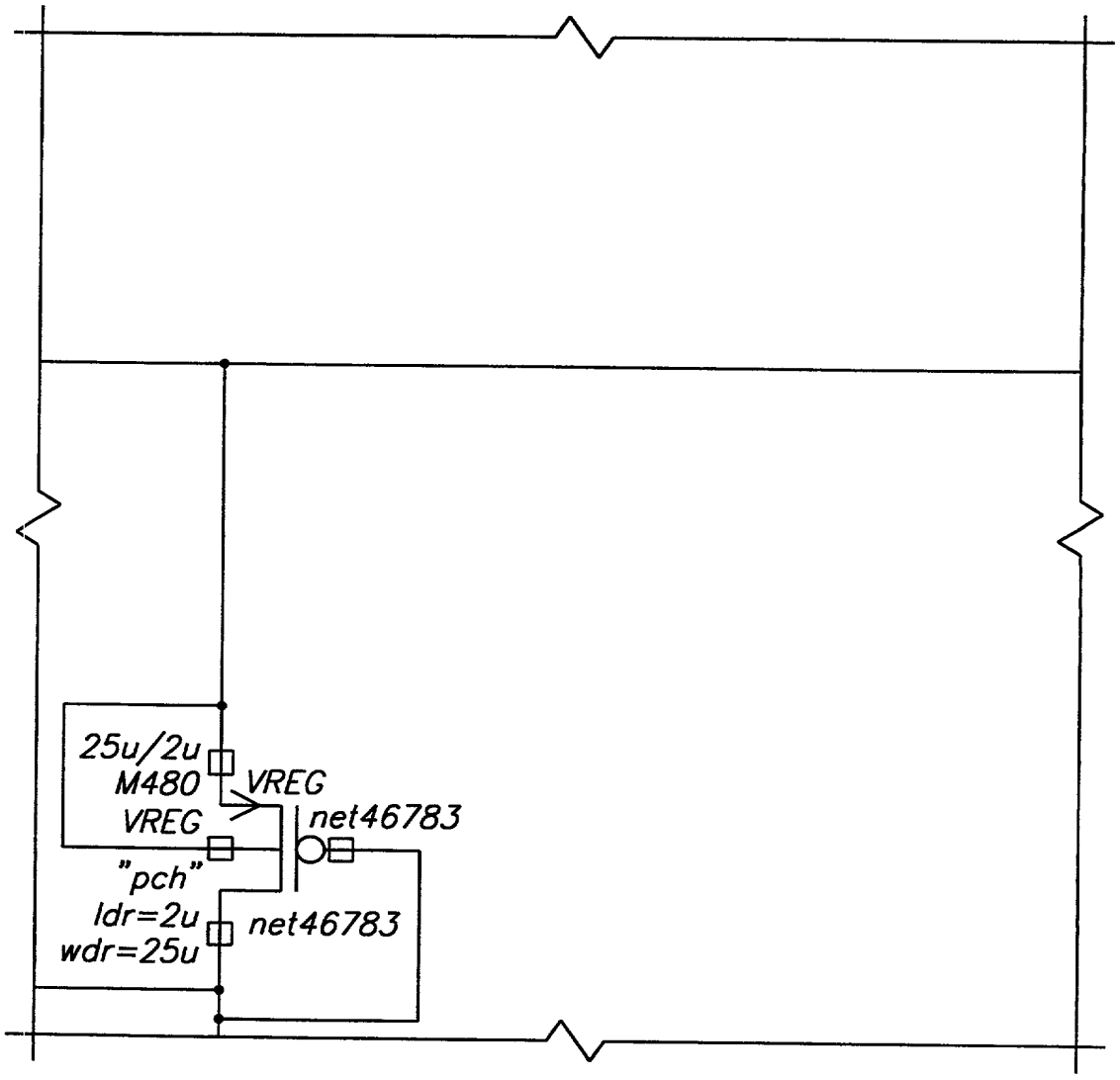


Fig 8.0505BD

US6215705-050105

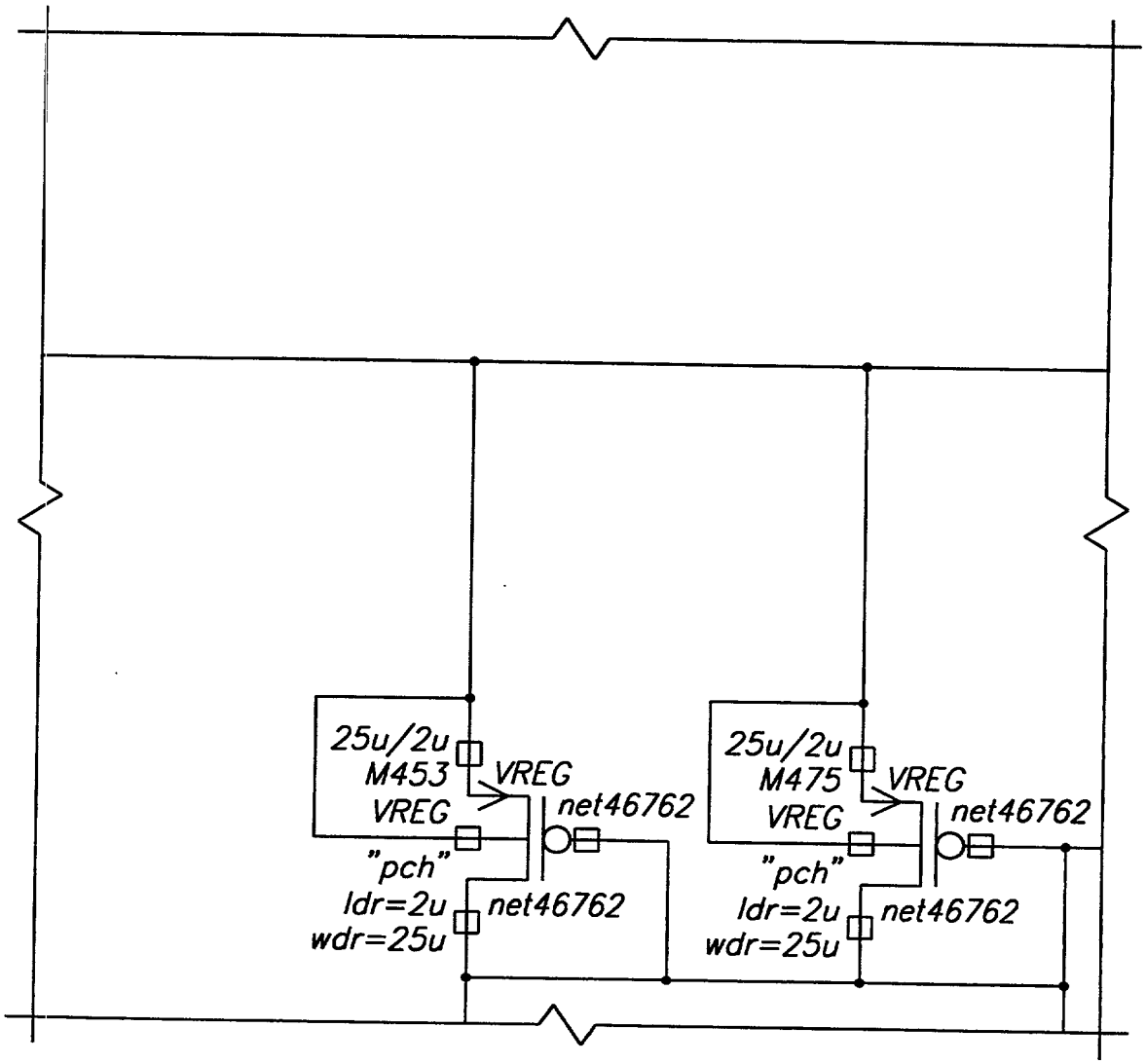


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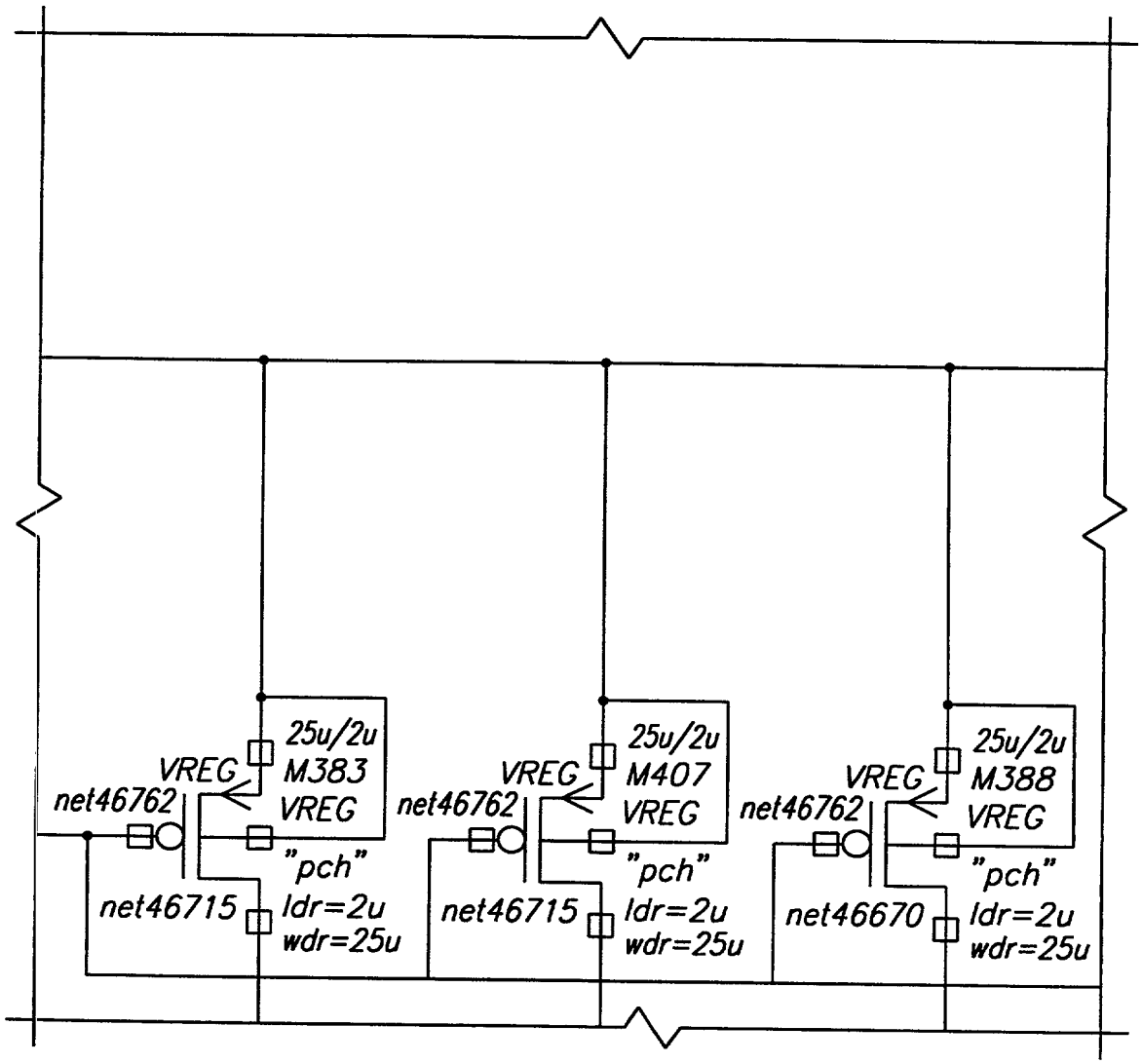

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Fig 8.0505BF

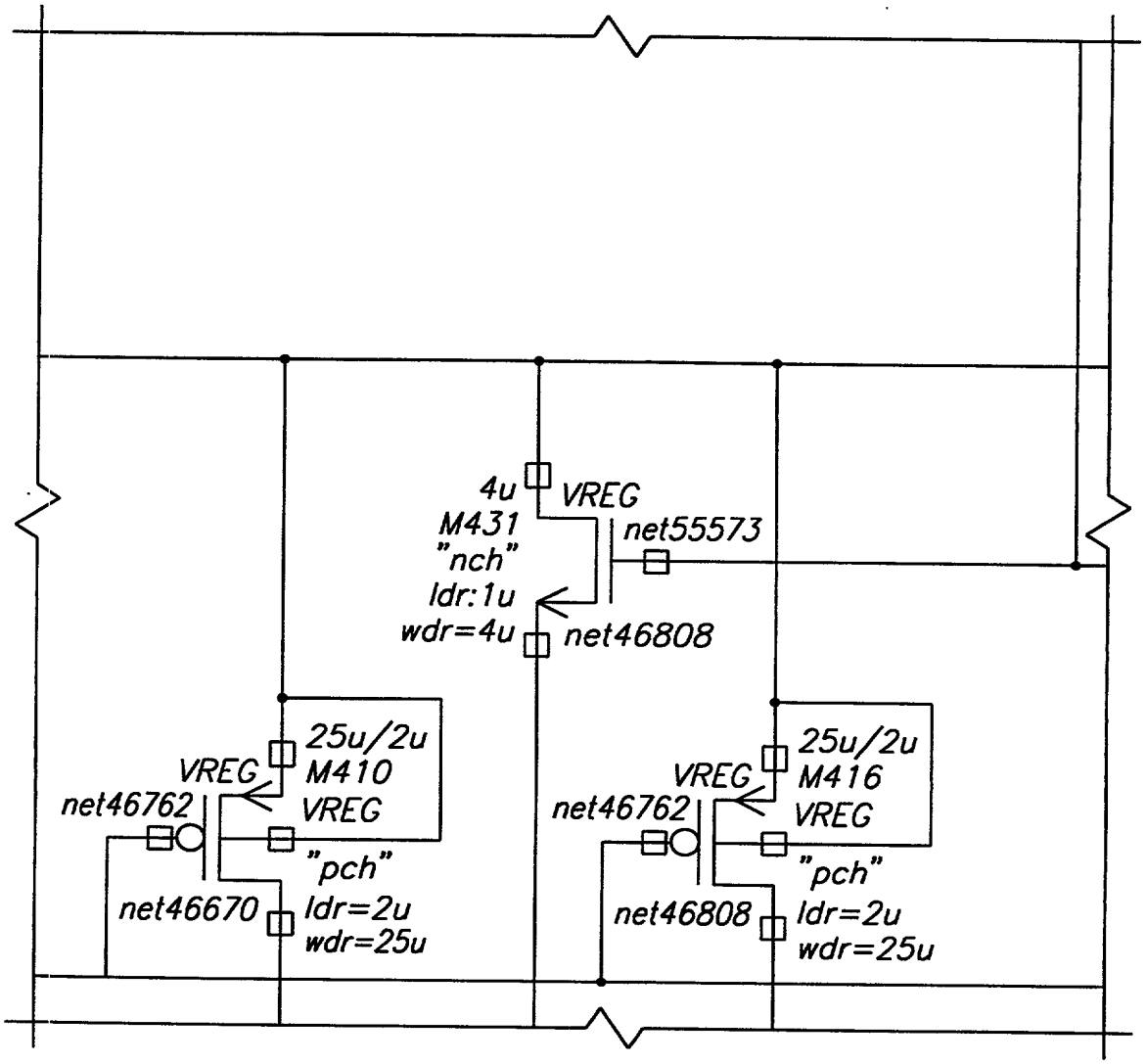


Fig 8.0505186

Document - Confidential

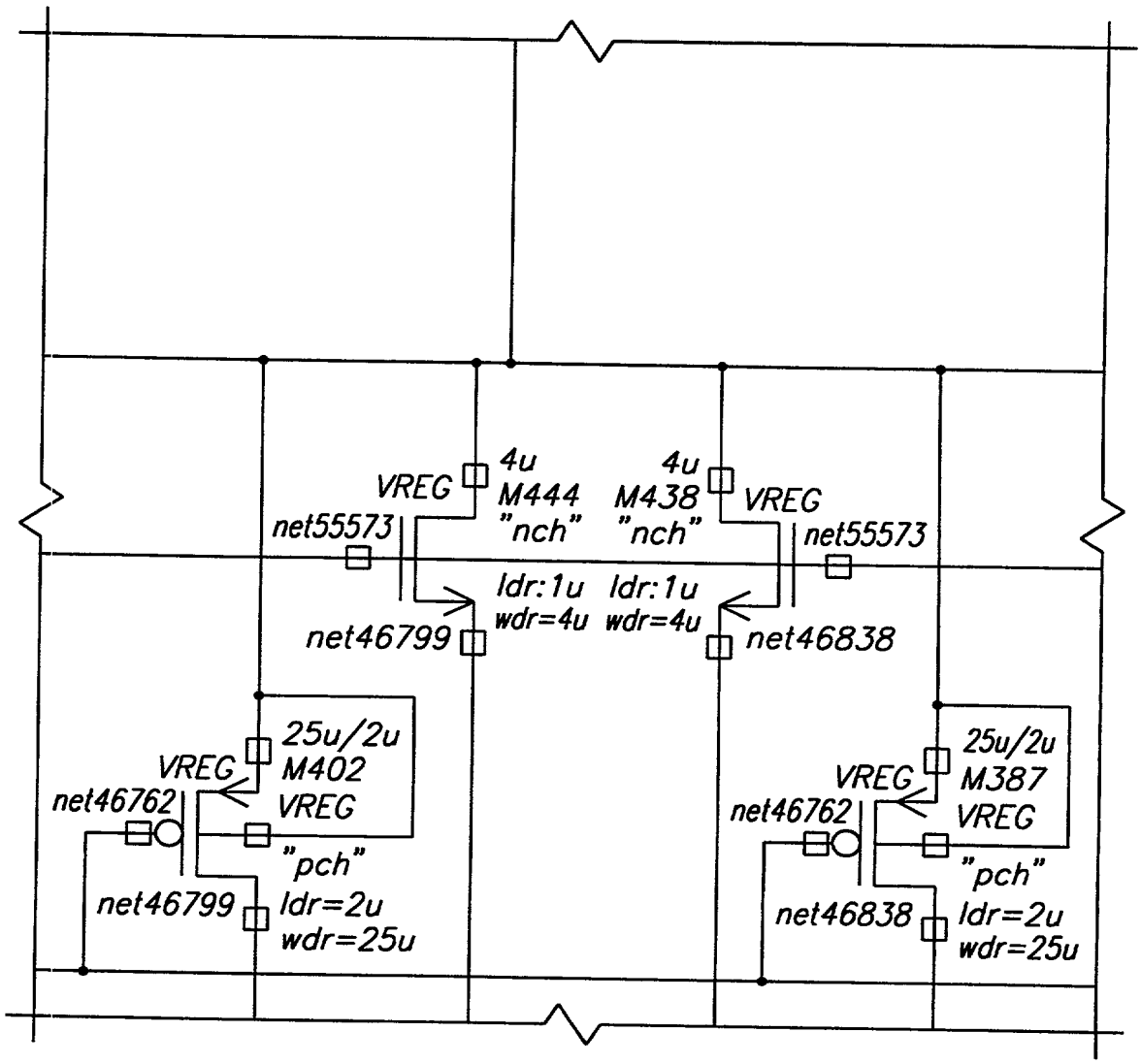


Fig 8.0505BH

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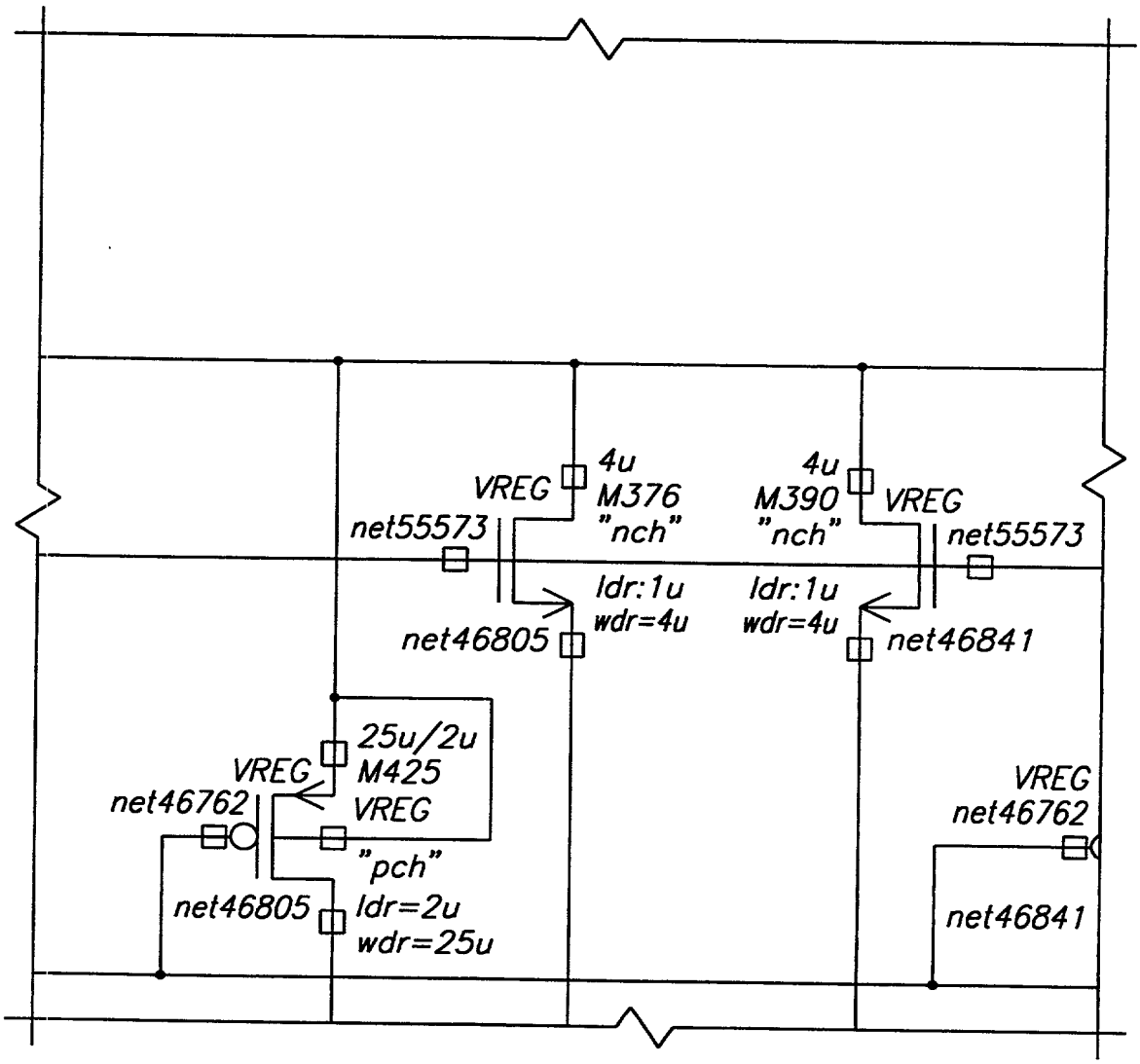


Fig 8.005058II

US20050156659A1

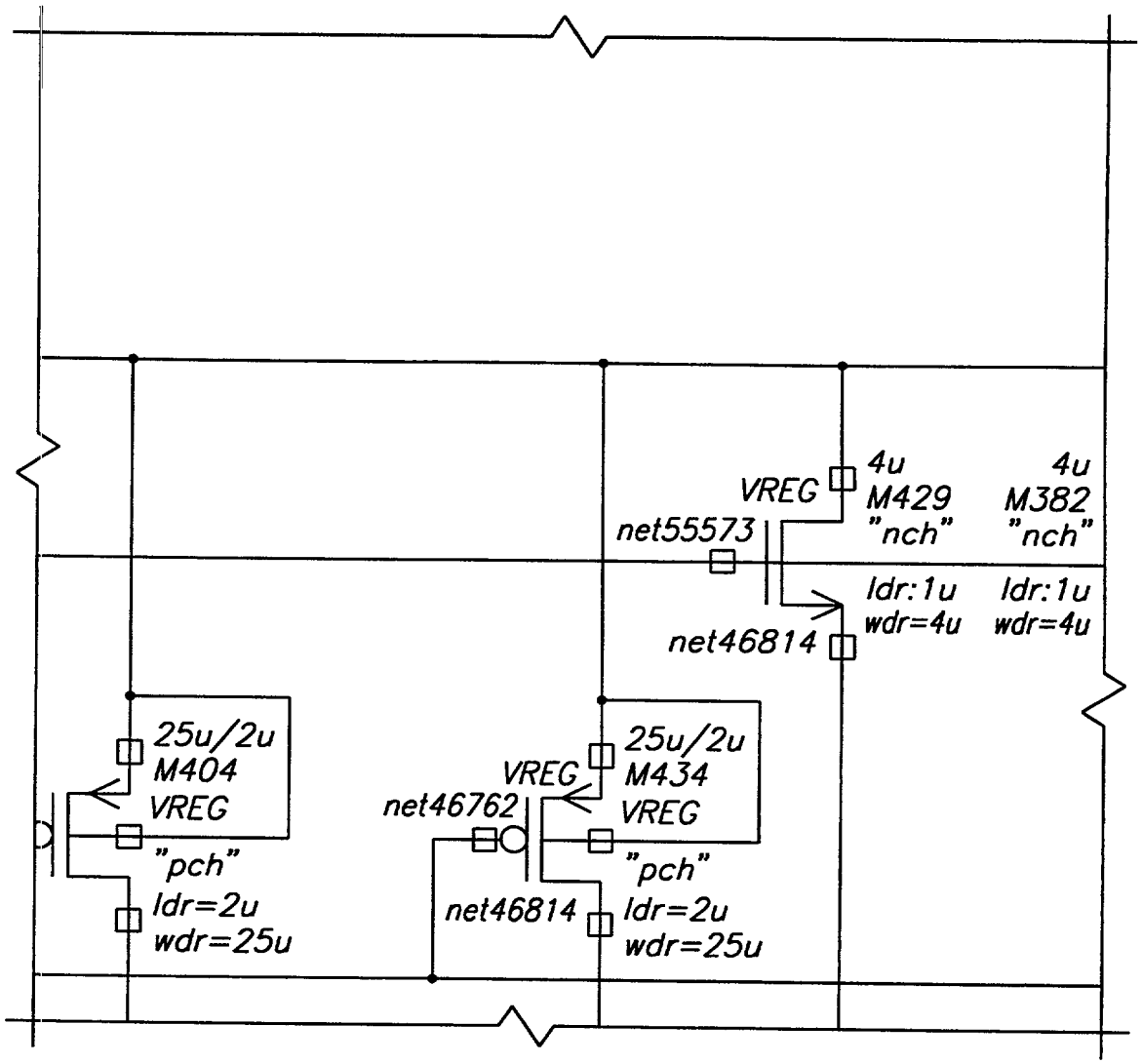
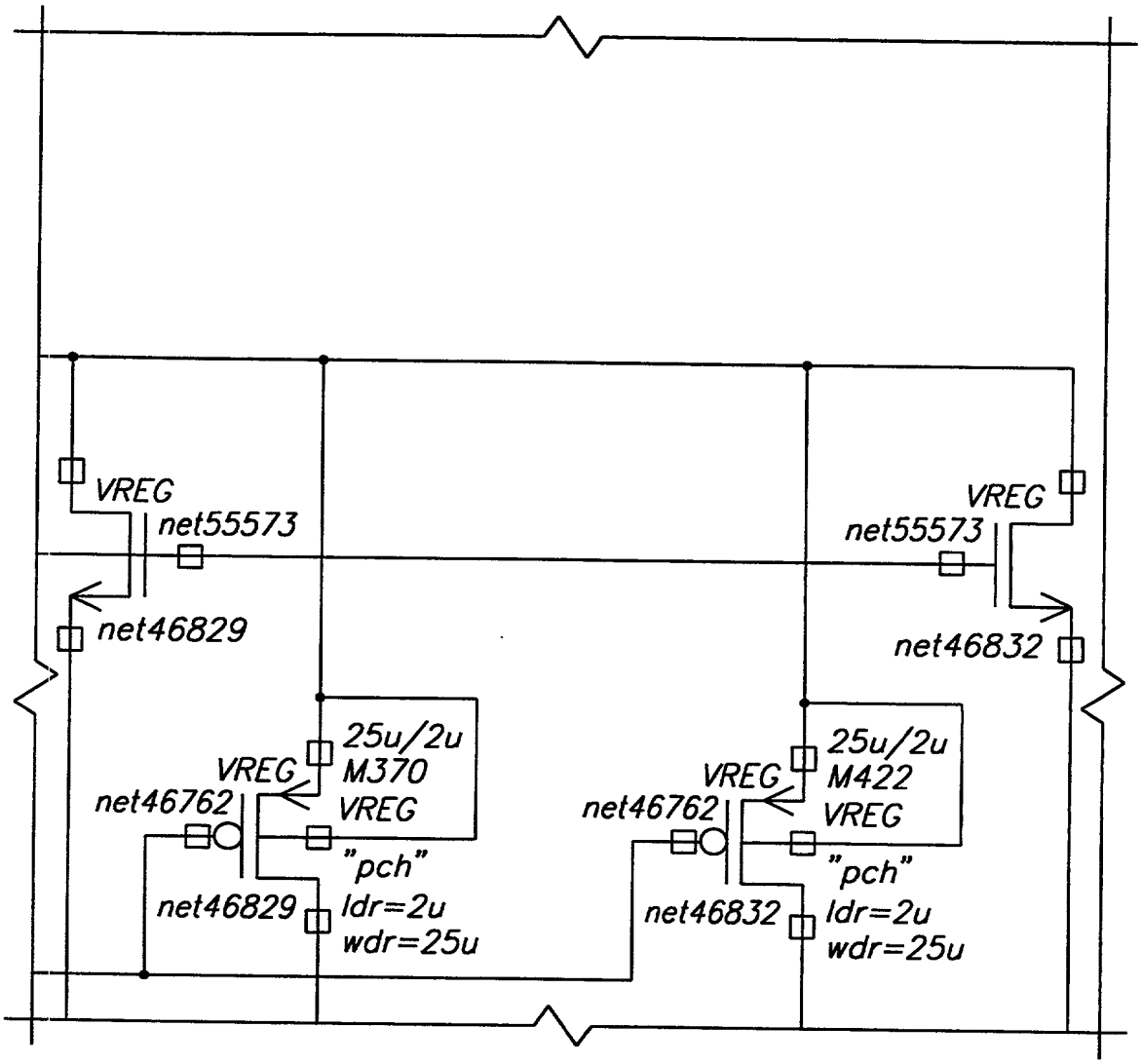


Fig 8.0505B1


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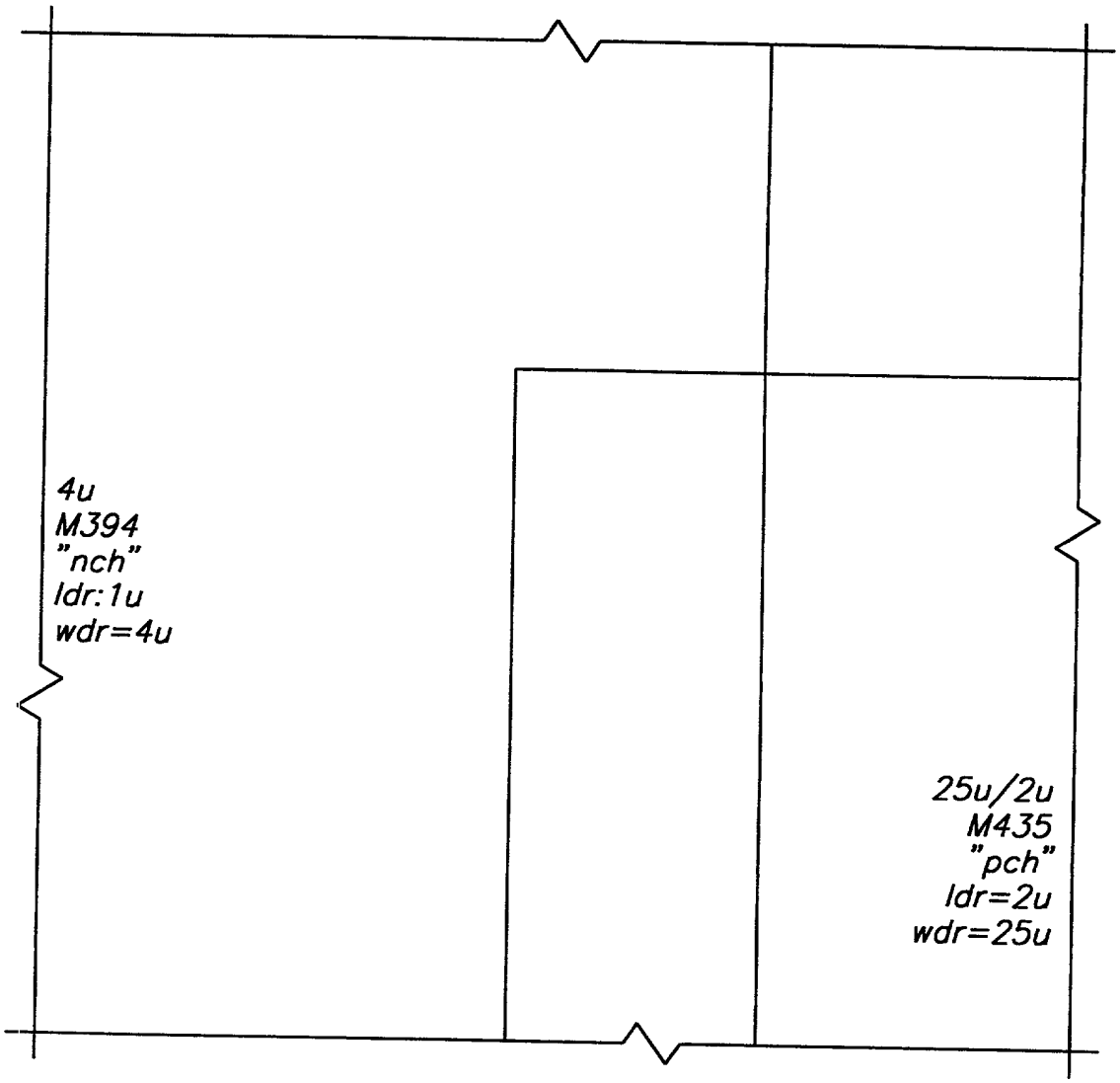


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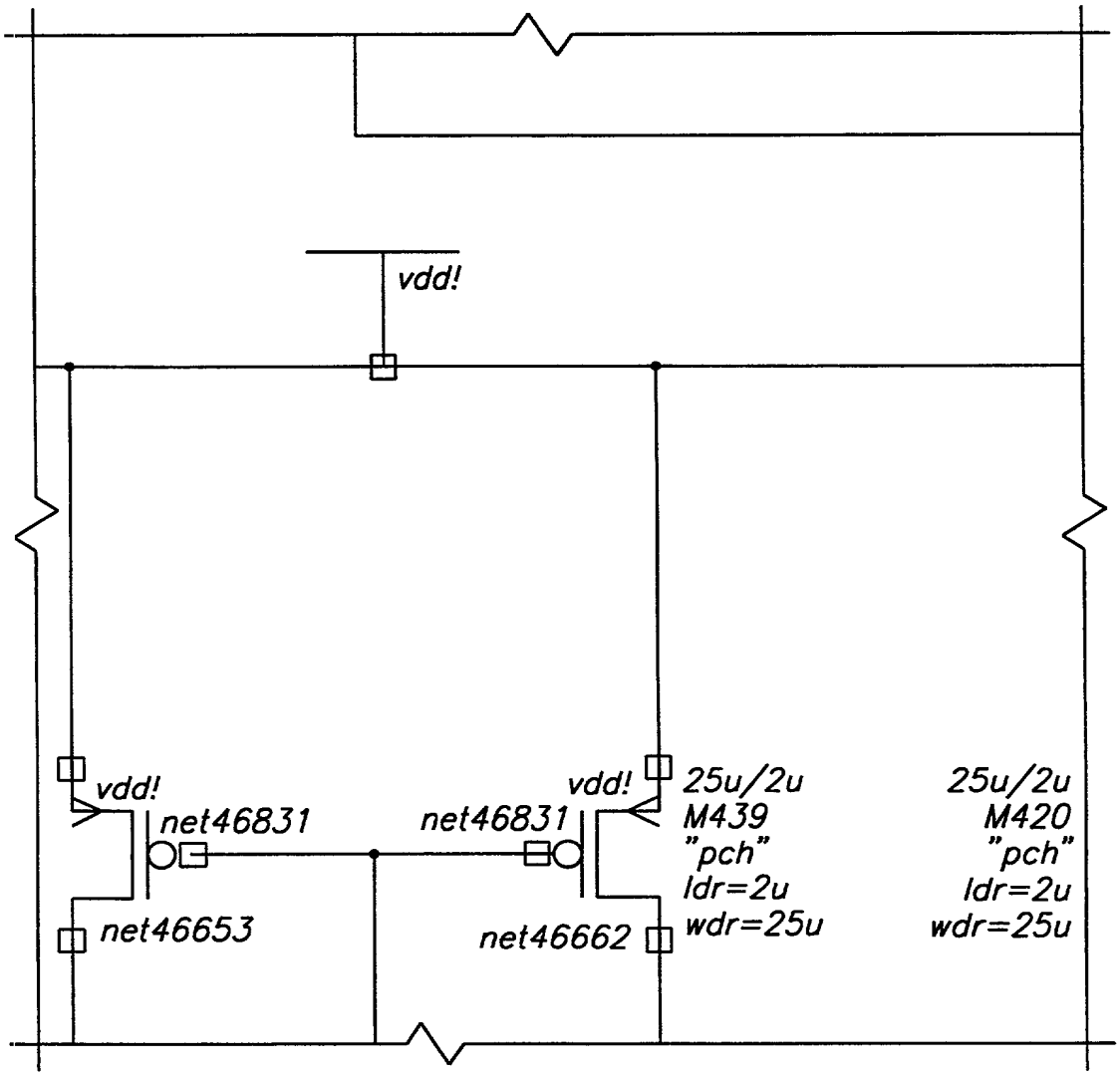

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Fig 8.0505BM

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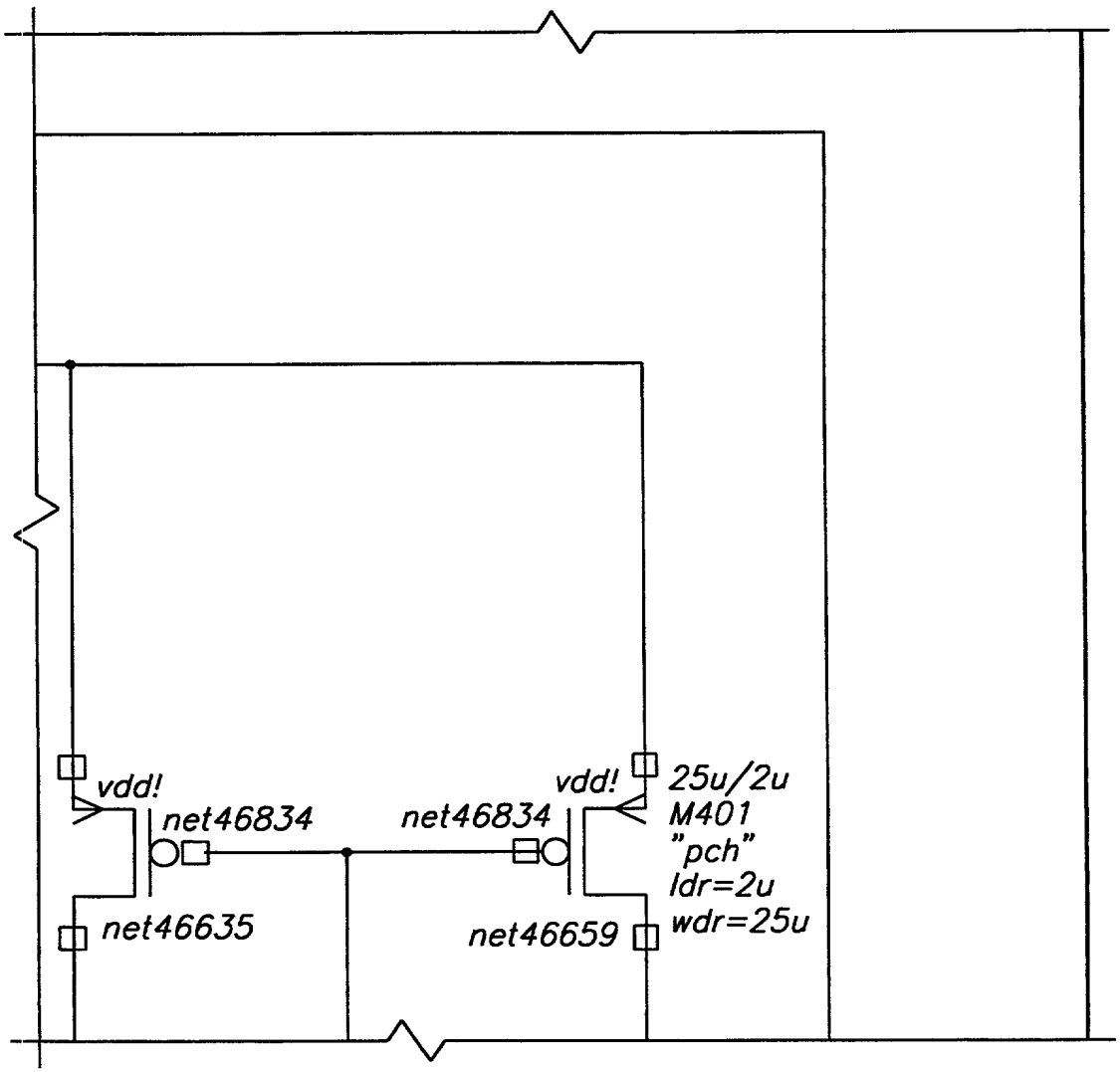


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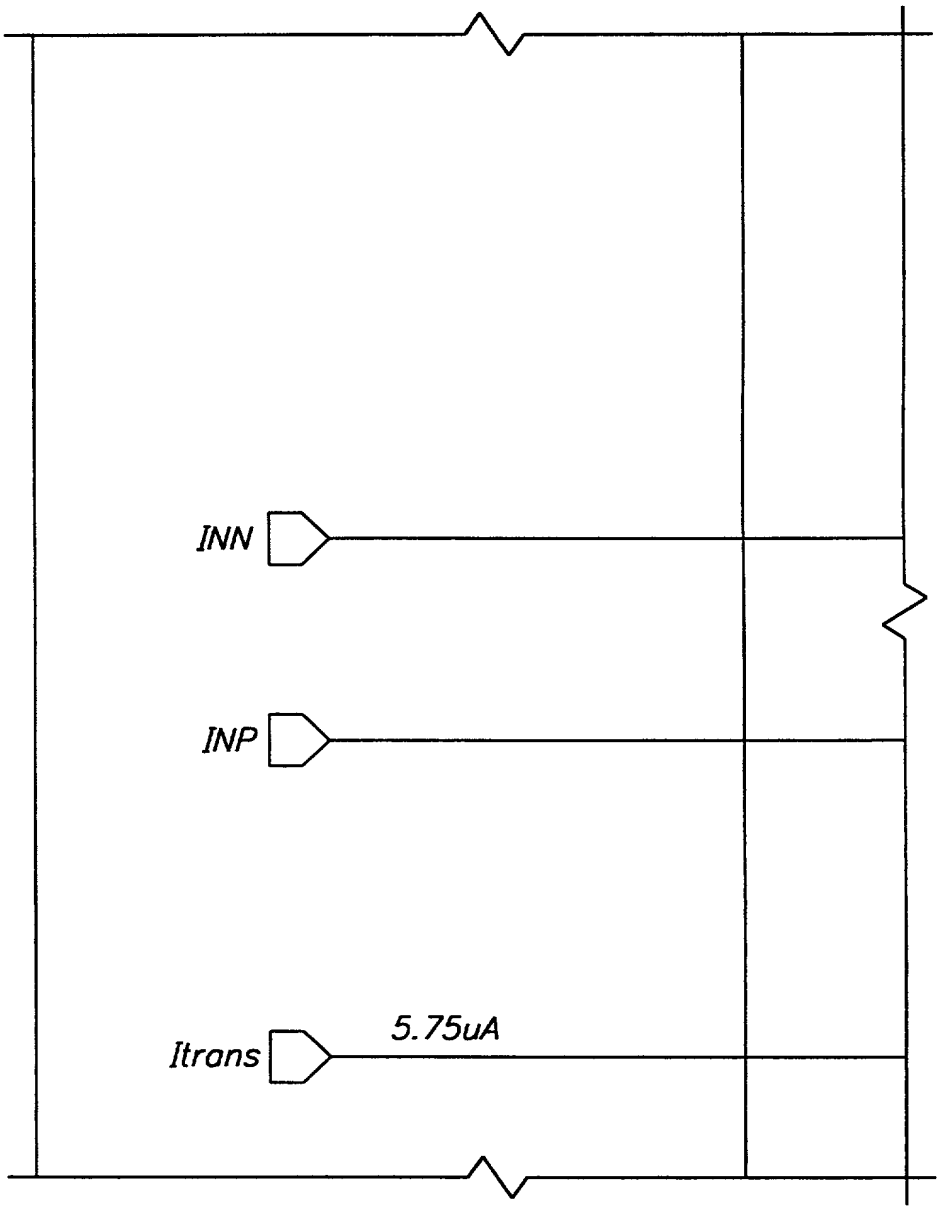


Fig 8.0505CA

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1786/3273

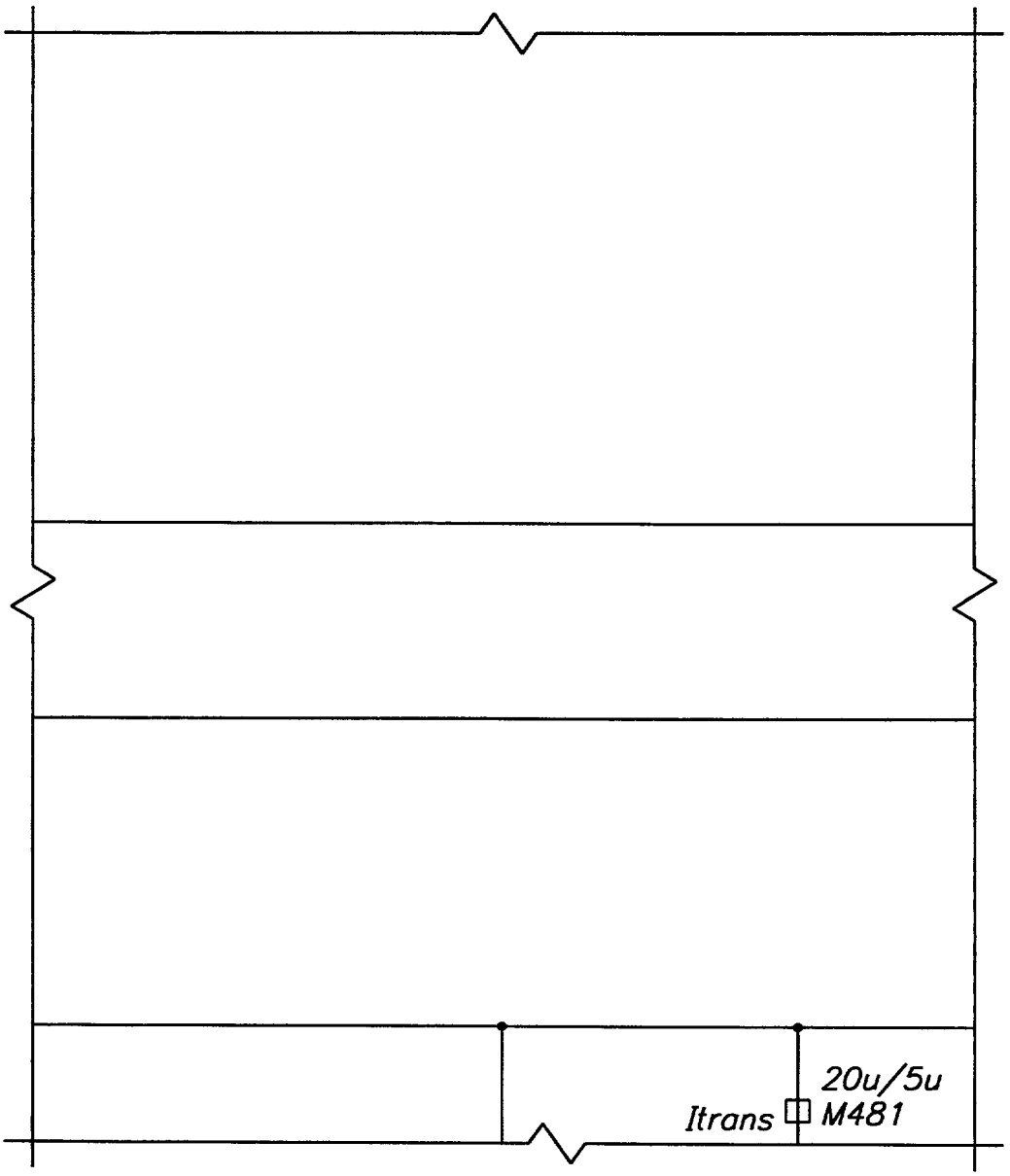


Fig 8.0505CB

1787/3273

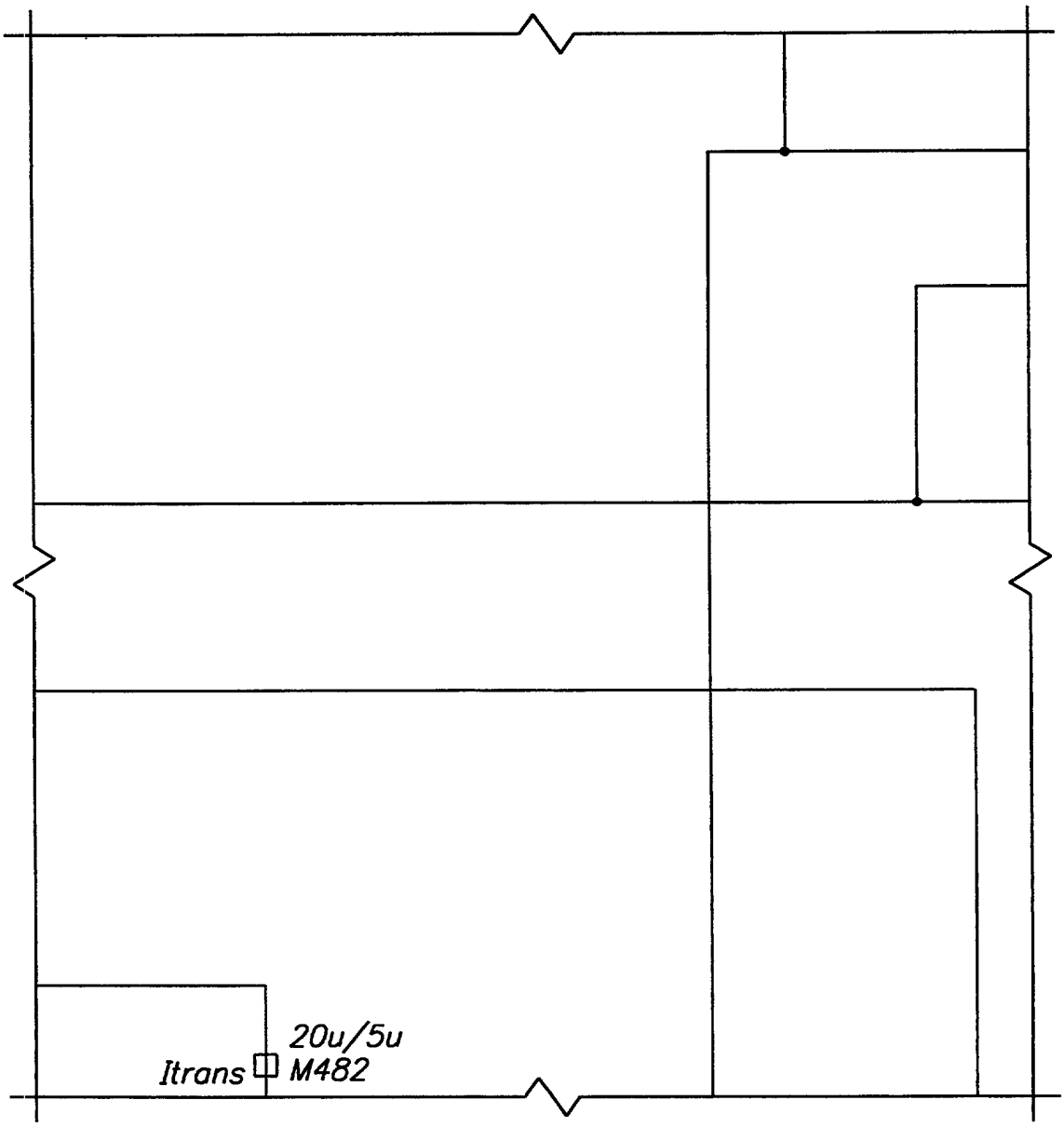


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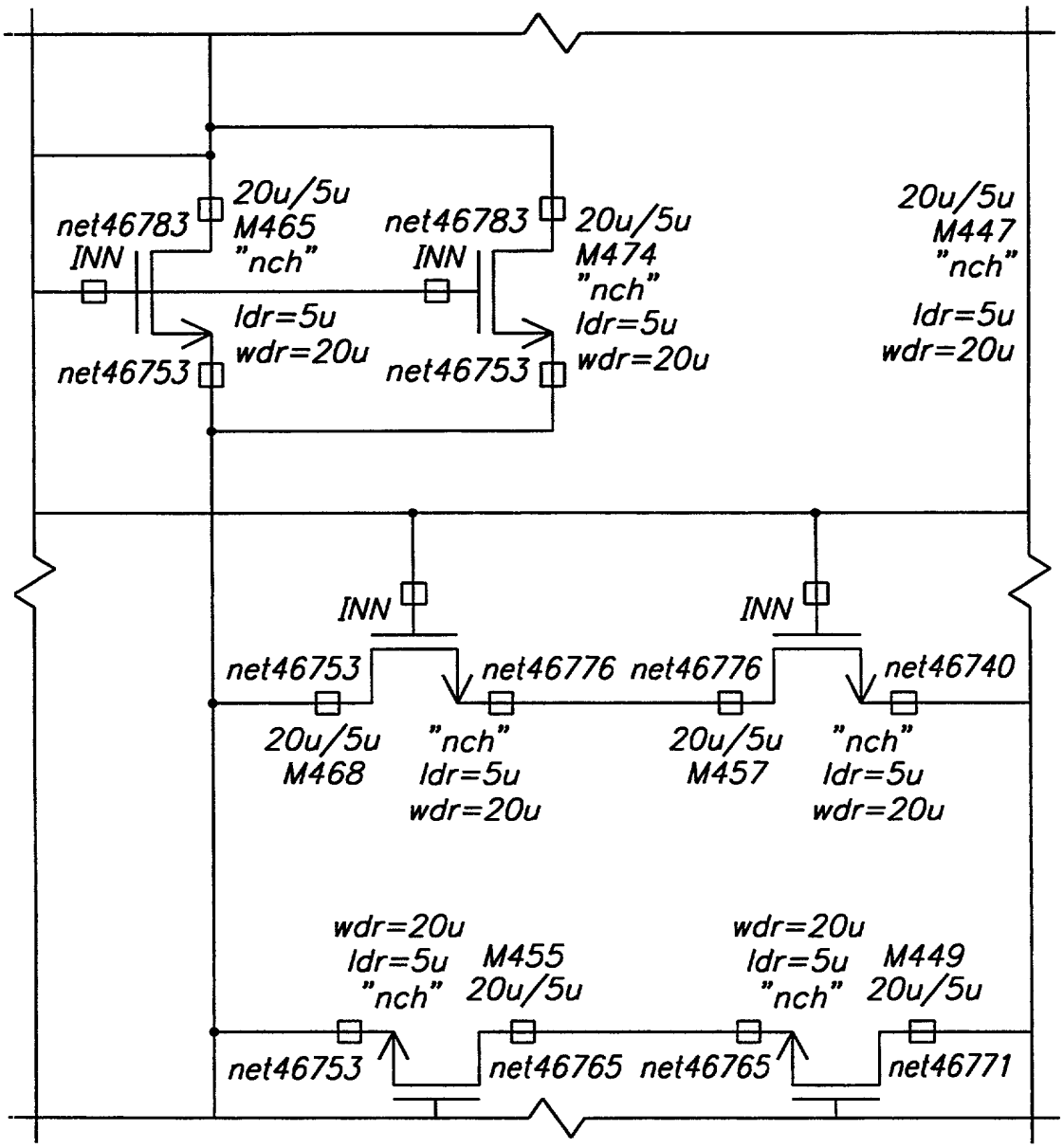

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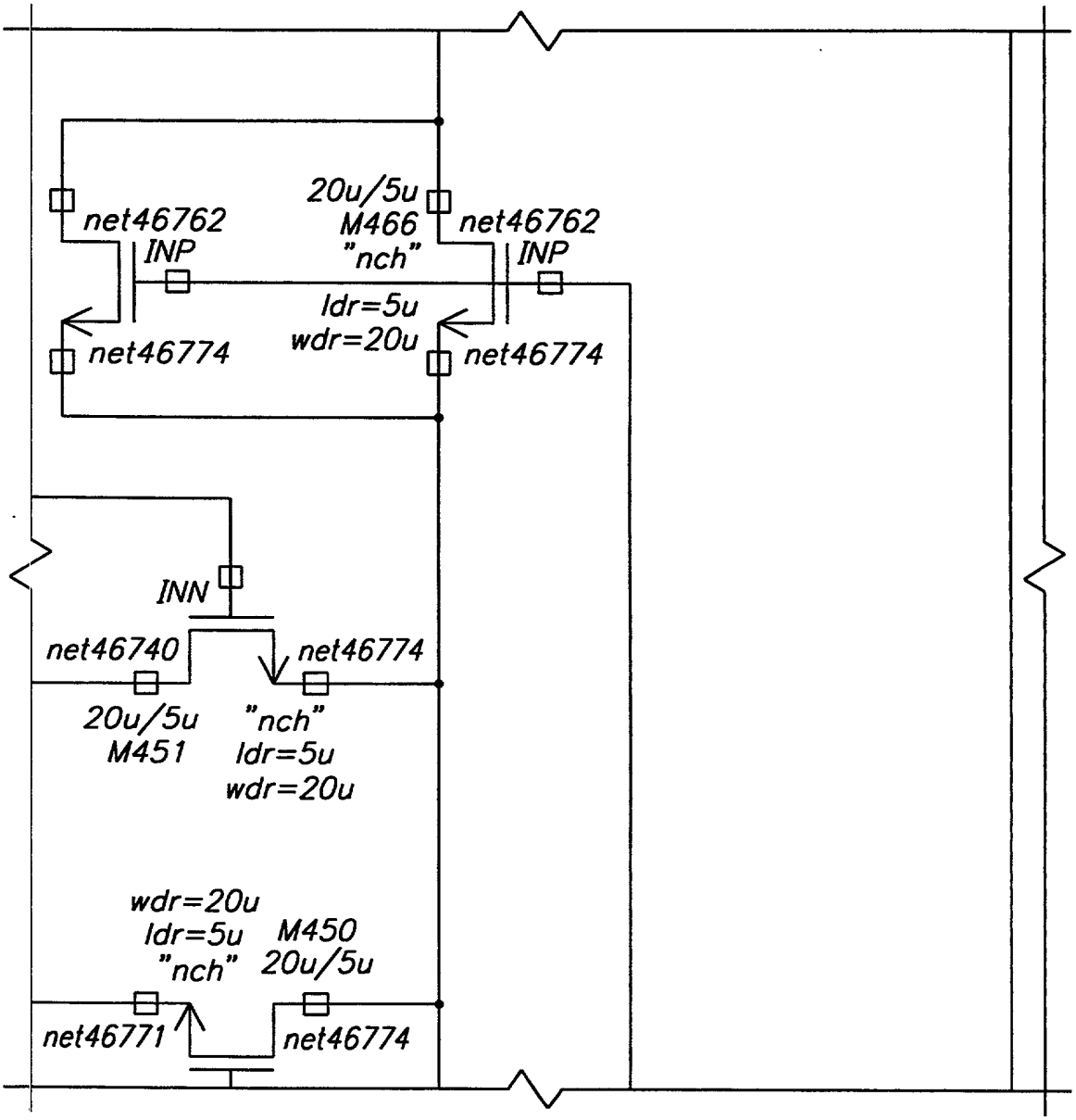

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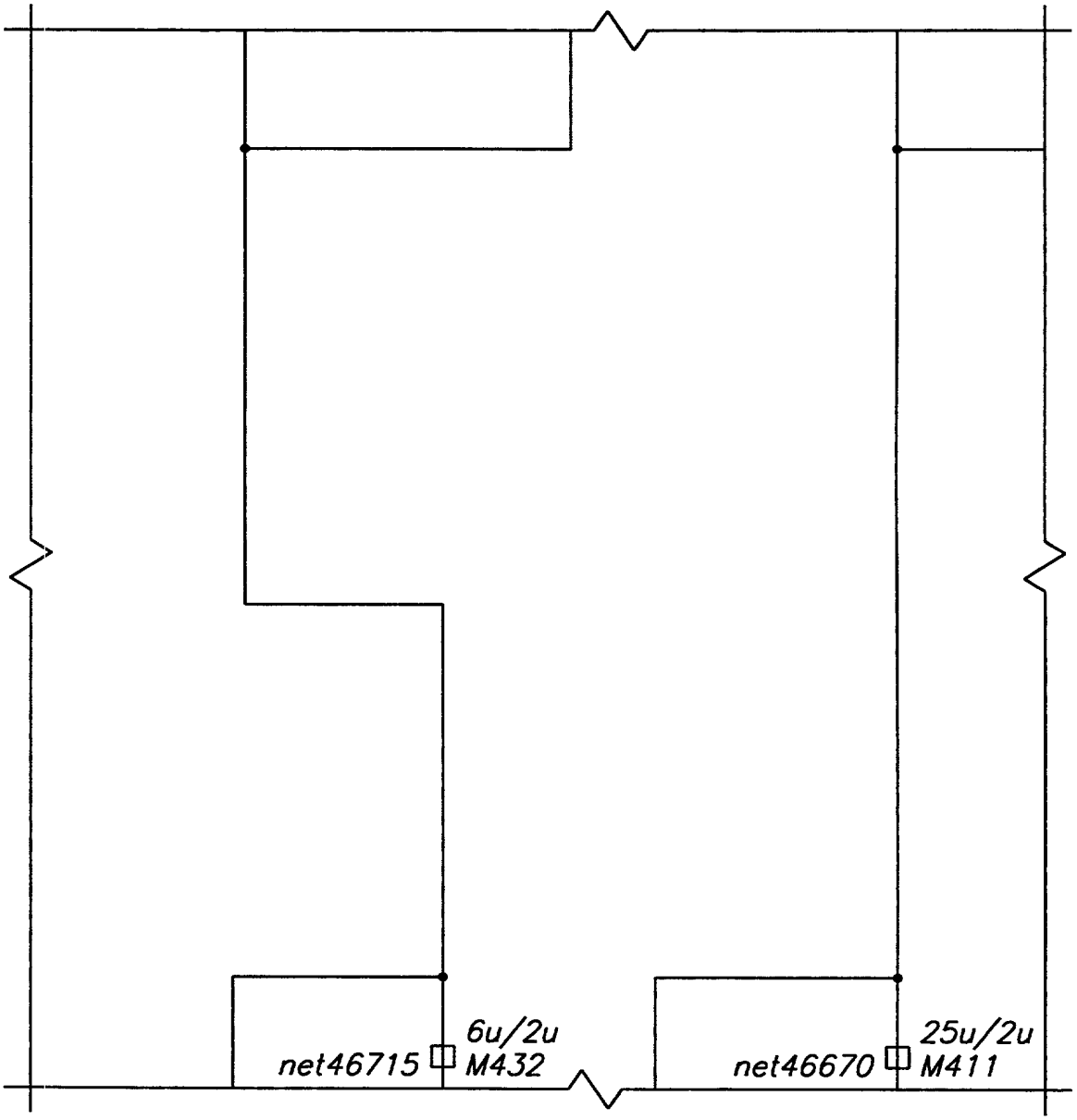


Fig 8.0505CF

US6774459

US5625565-050405

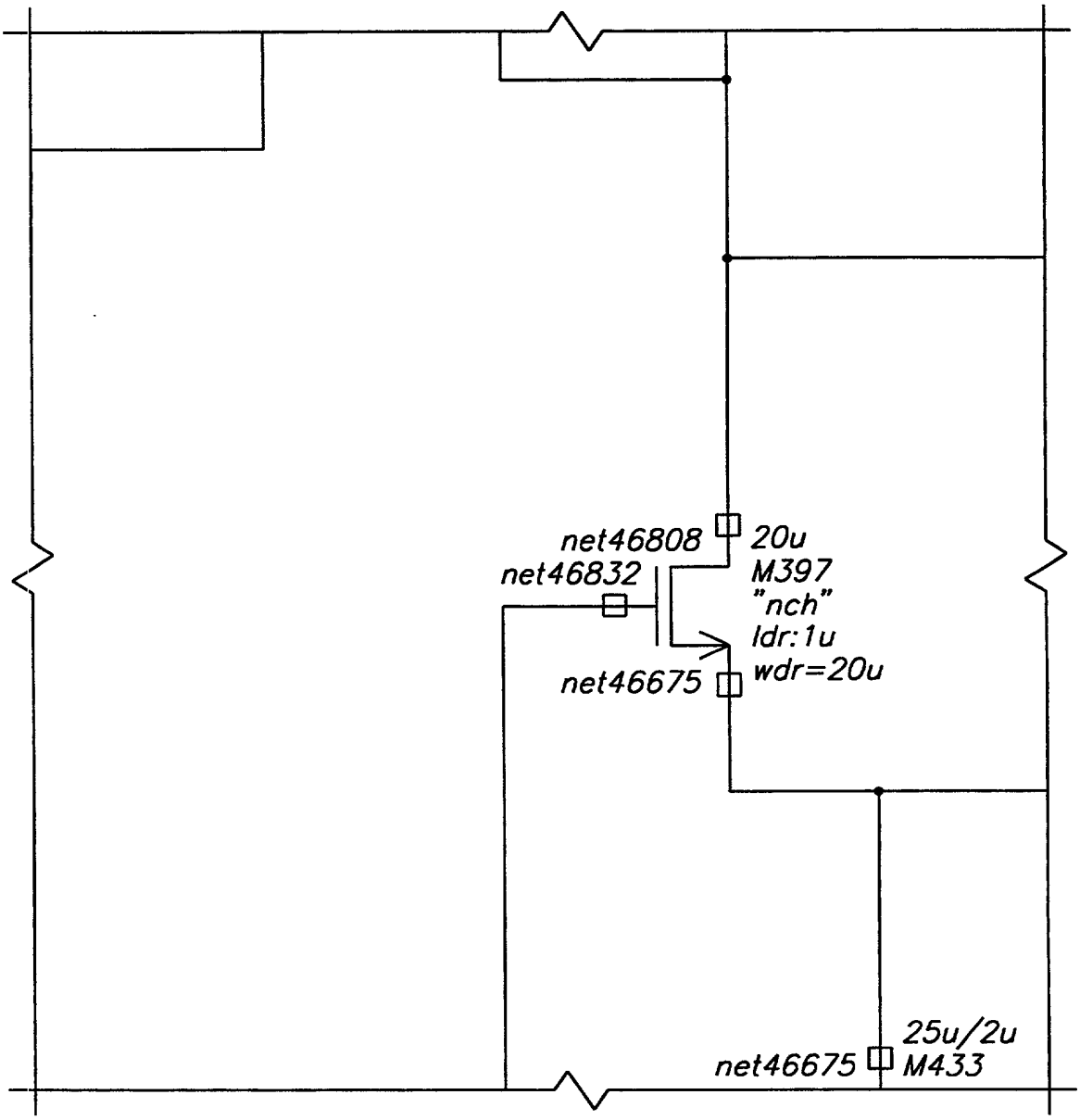
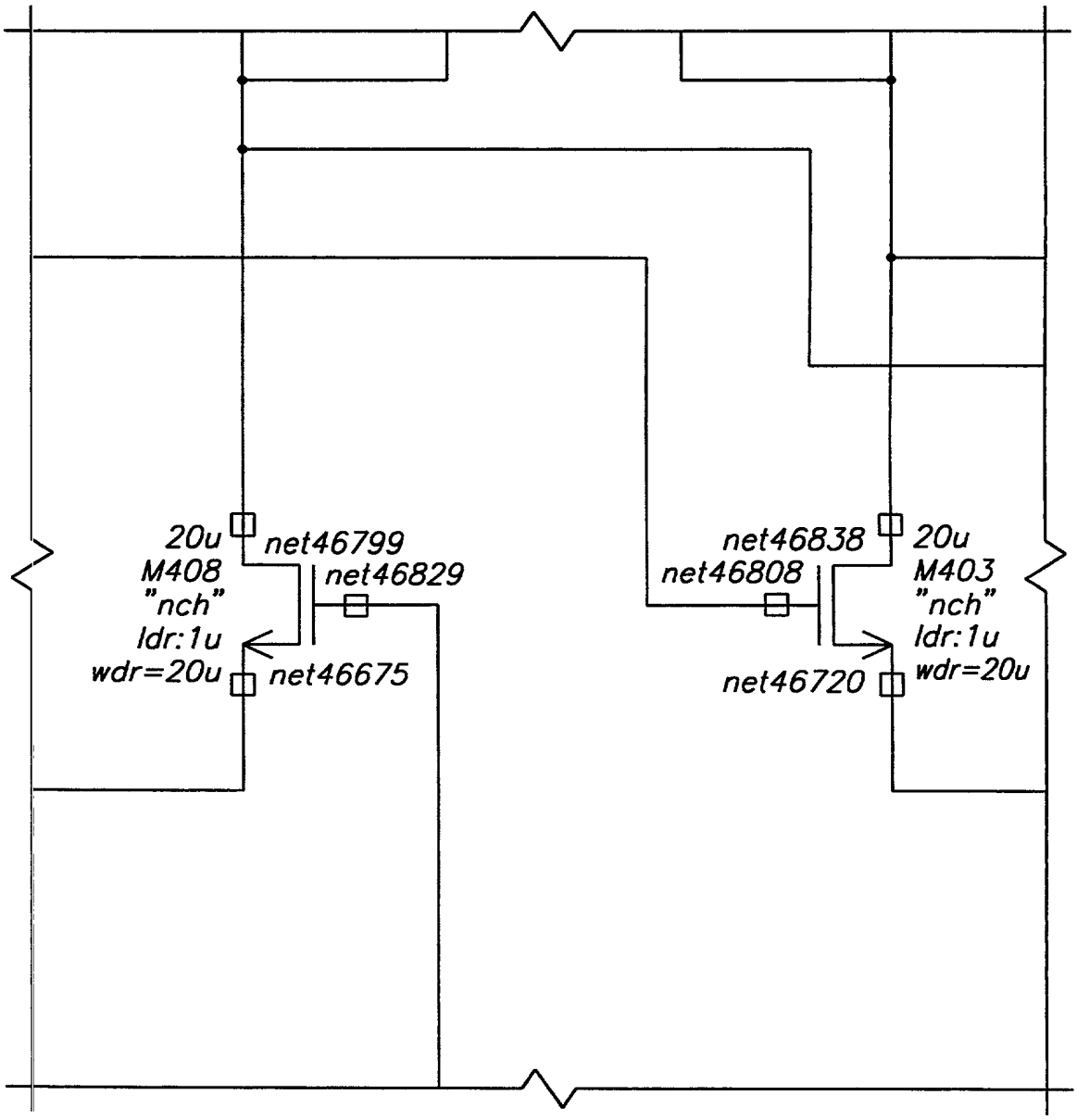


Fig 8.050506



P05/2005 - 1054 - 1054

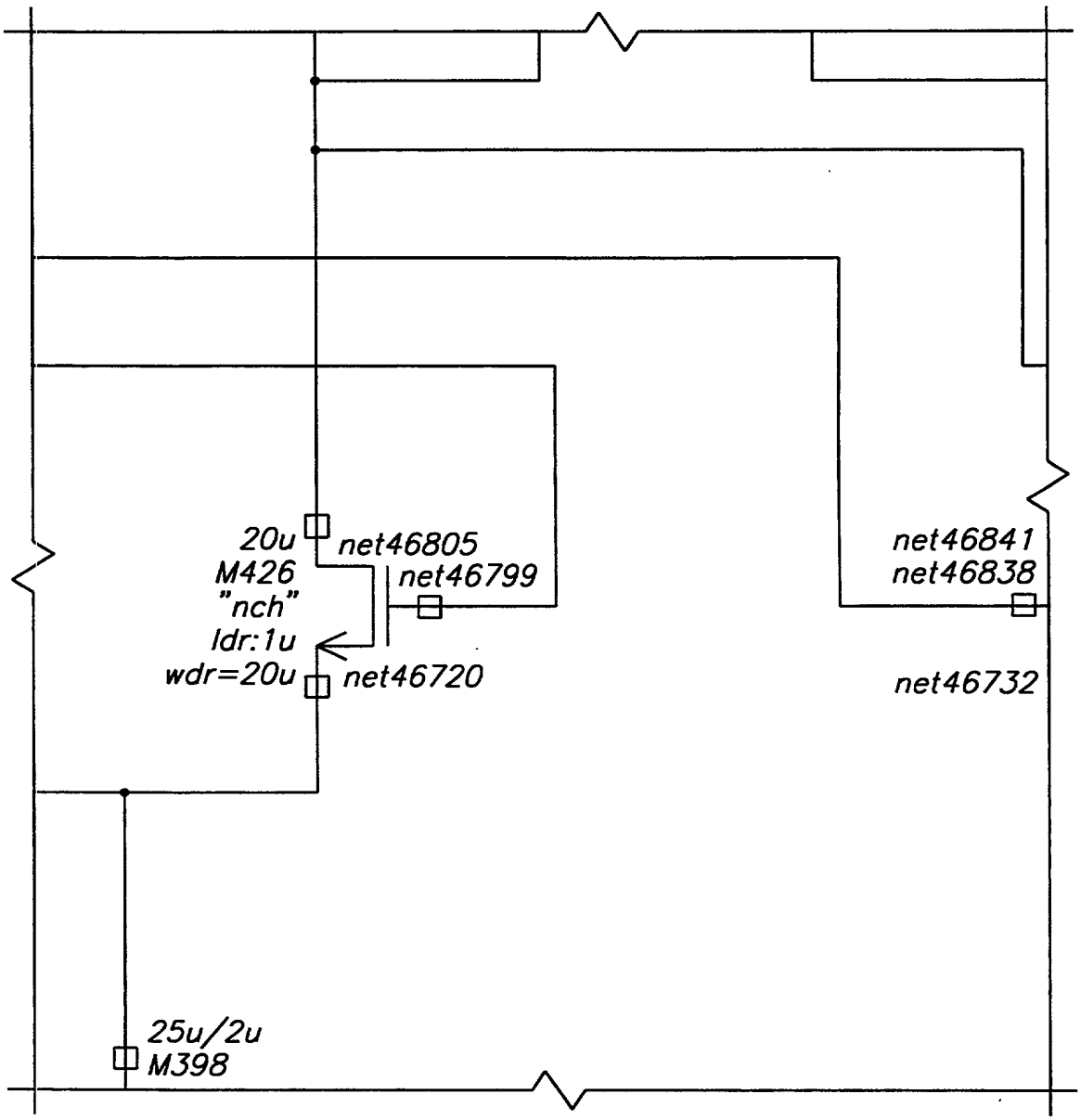

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Fig 8.0505CI

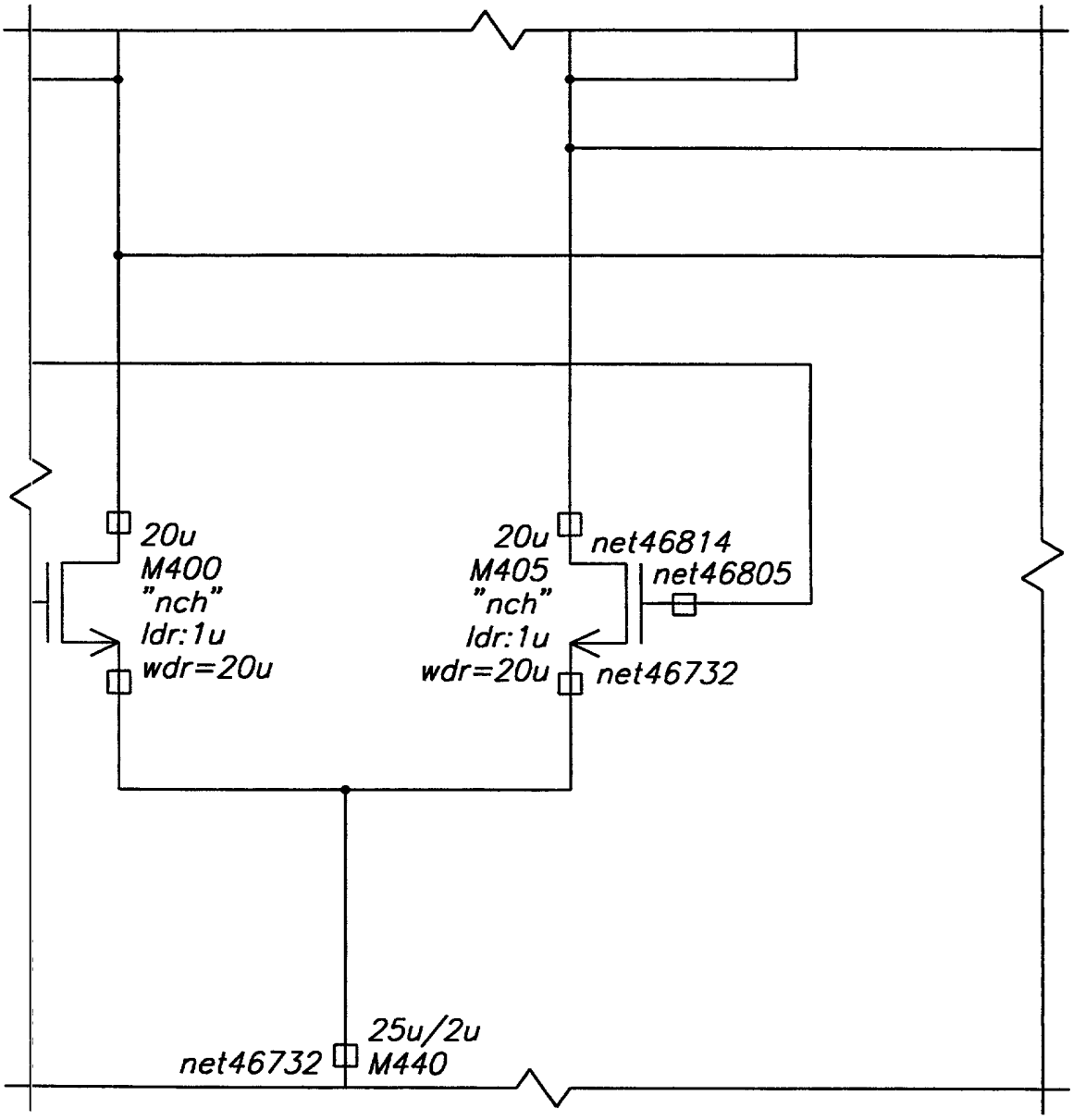
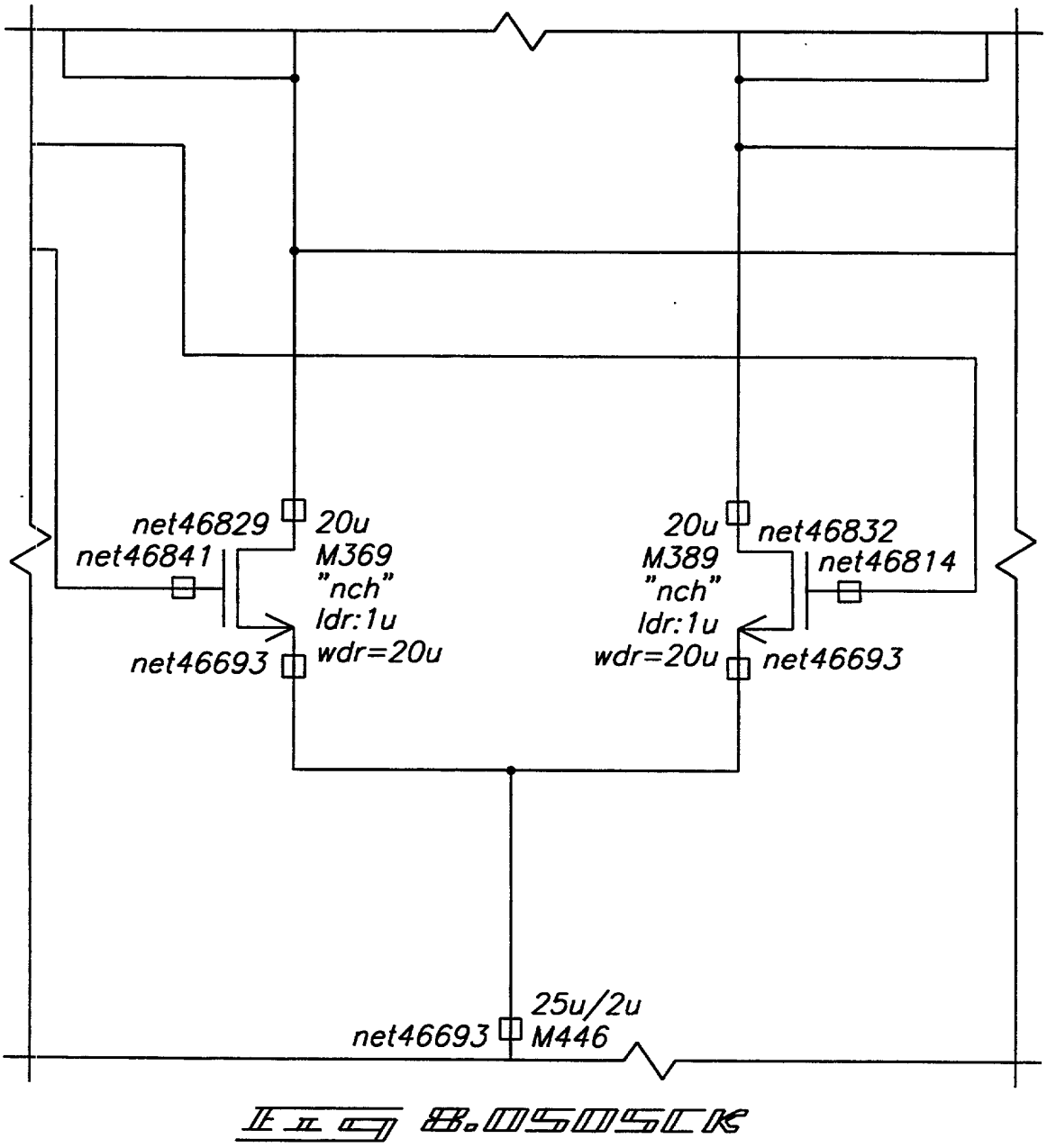
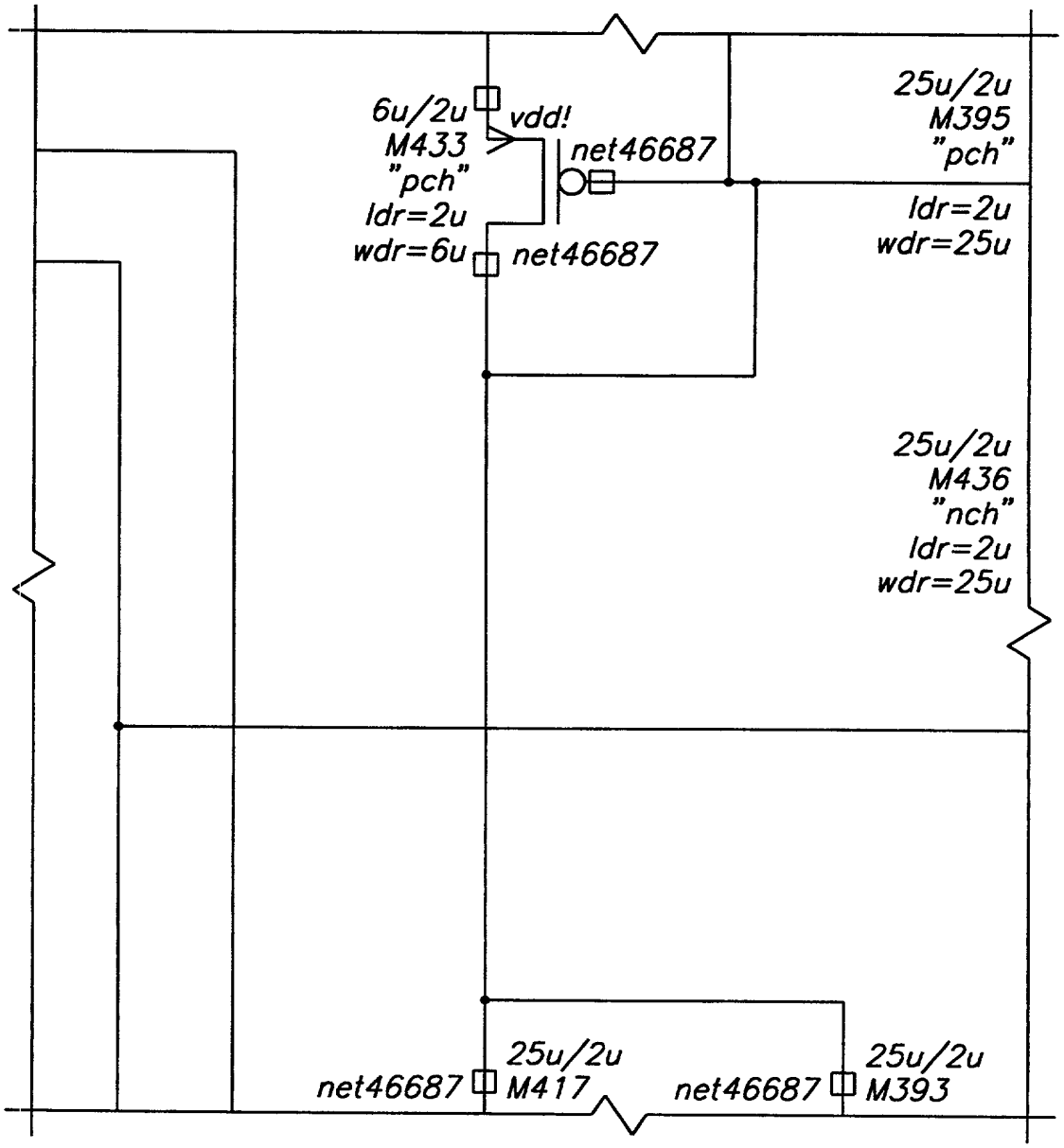

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Fig 8.0505(a)



Подписано в печать



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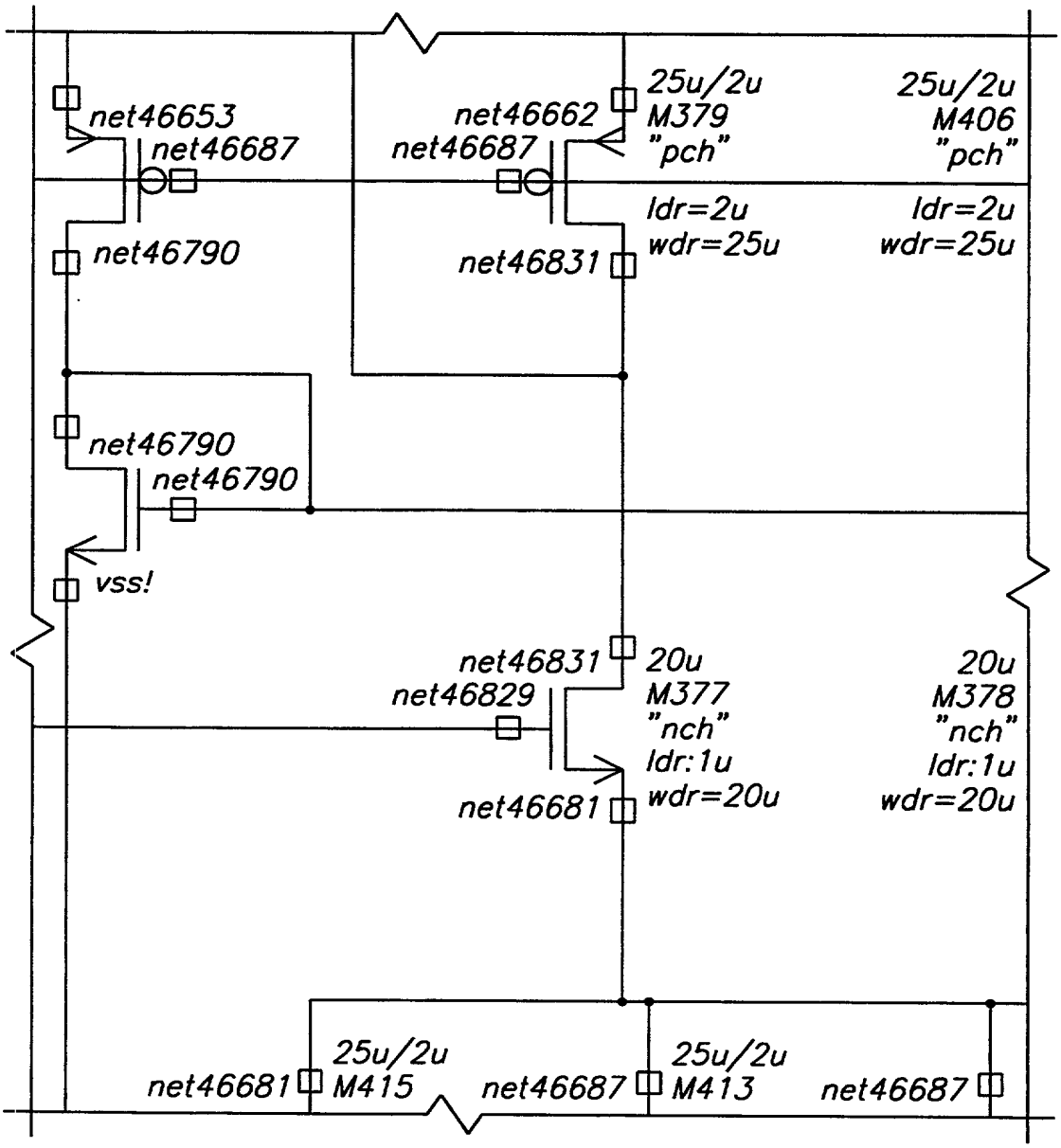


Fig 8.0505CM

05621504

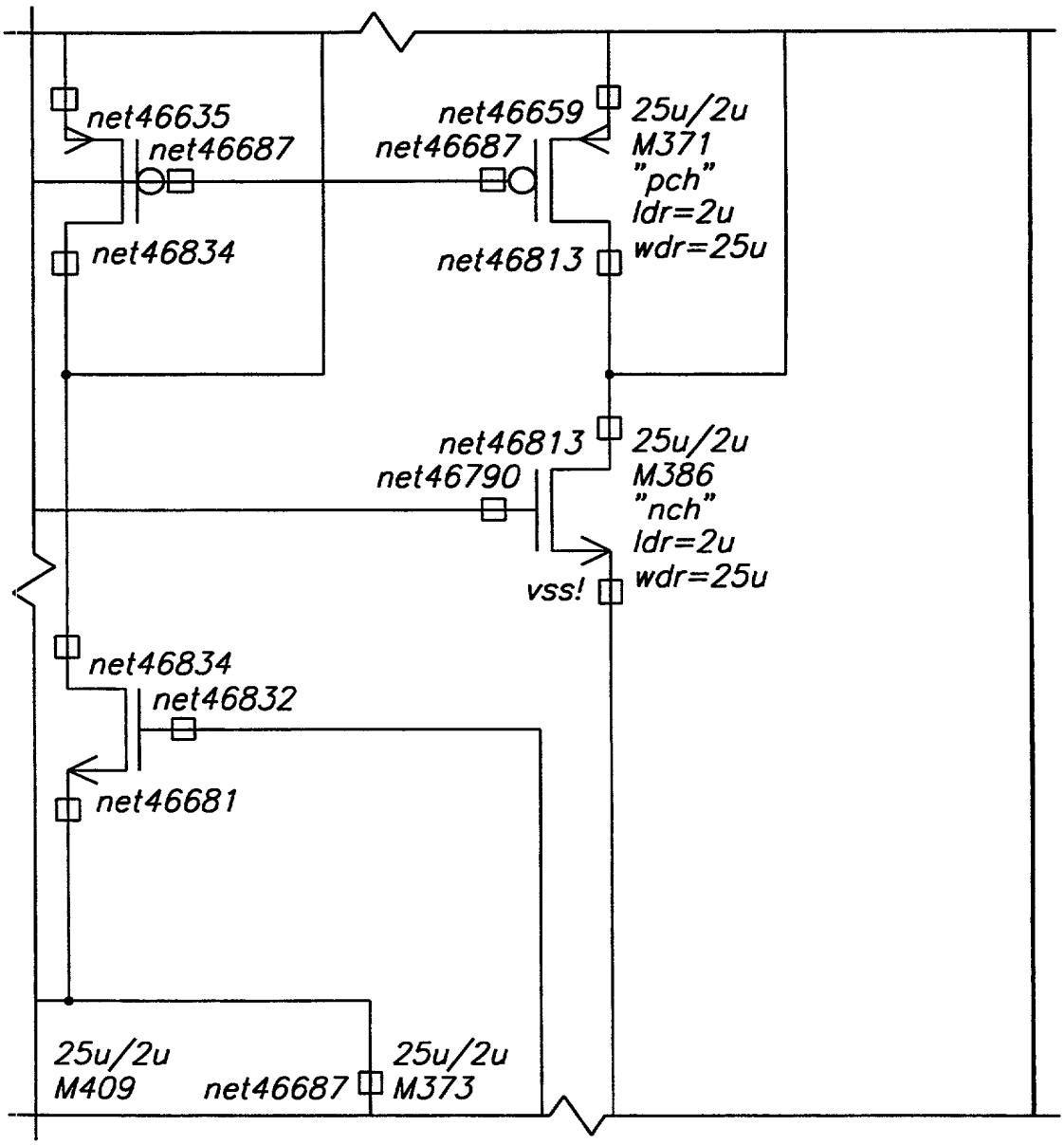


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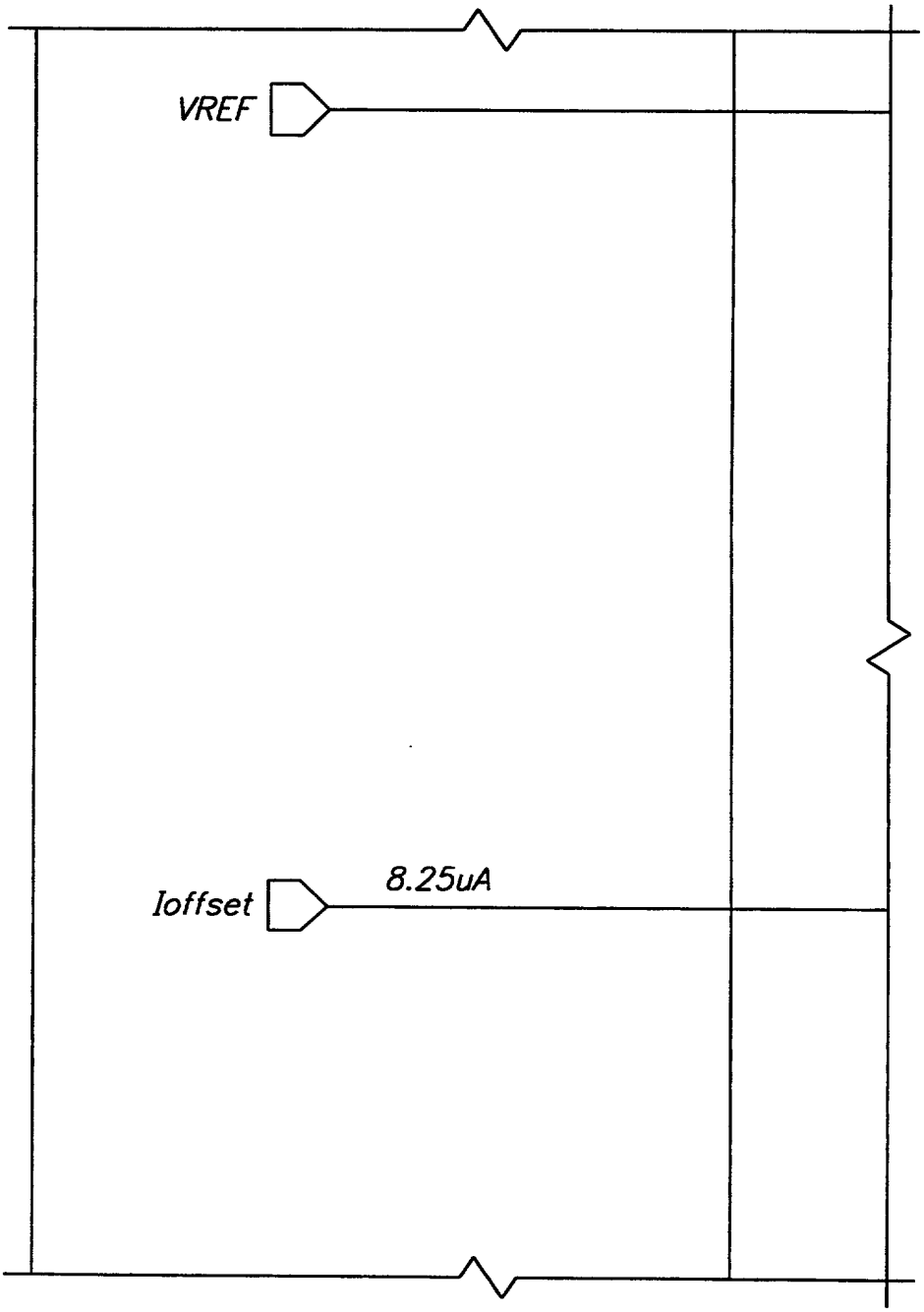
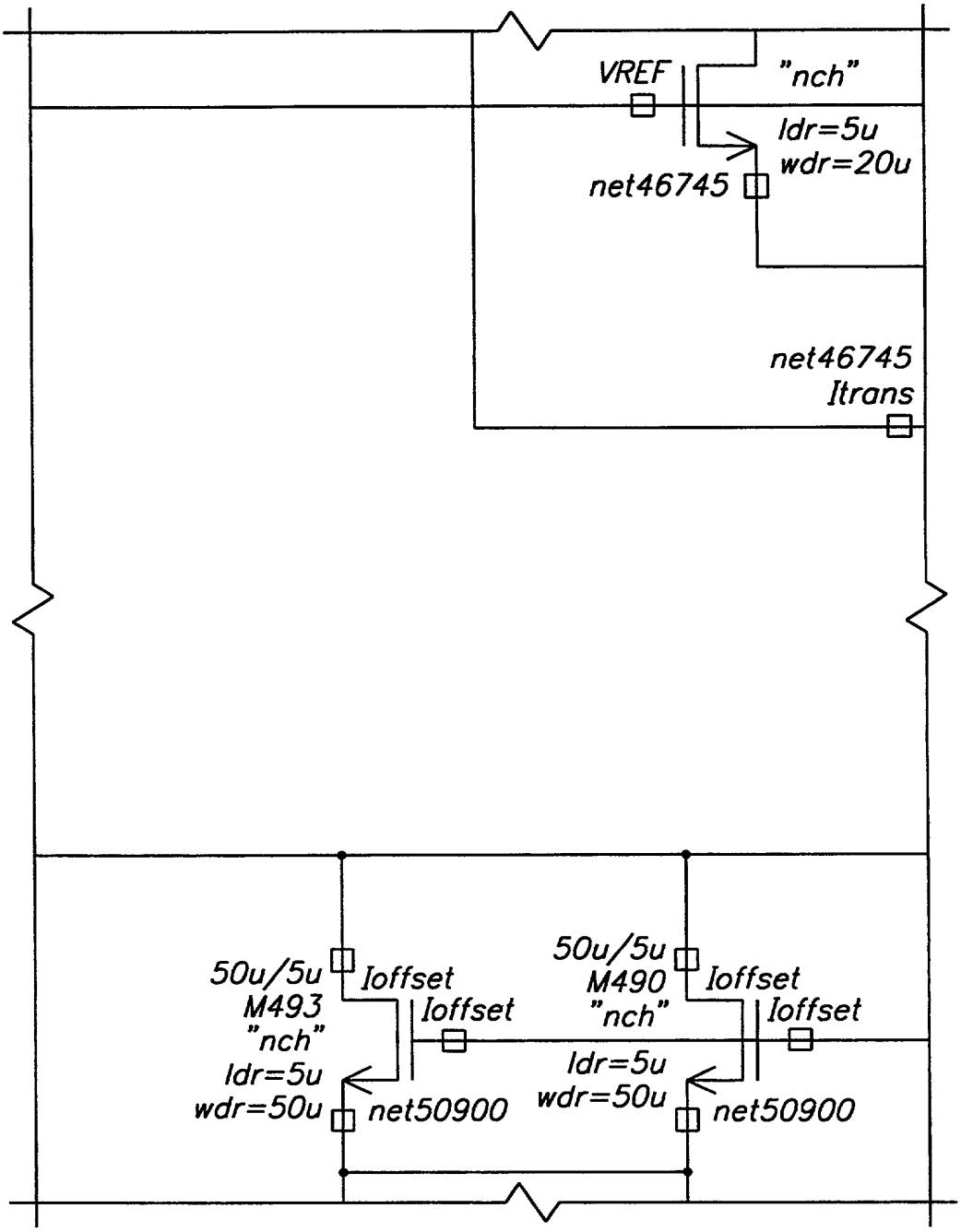


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Лл 8.050508

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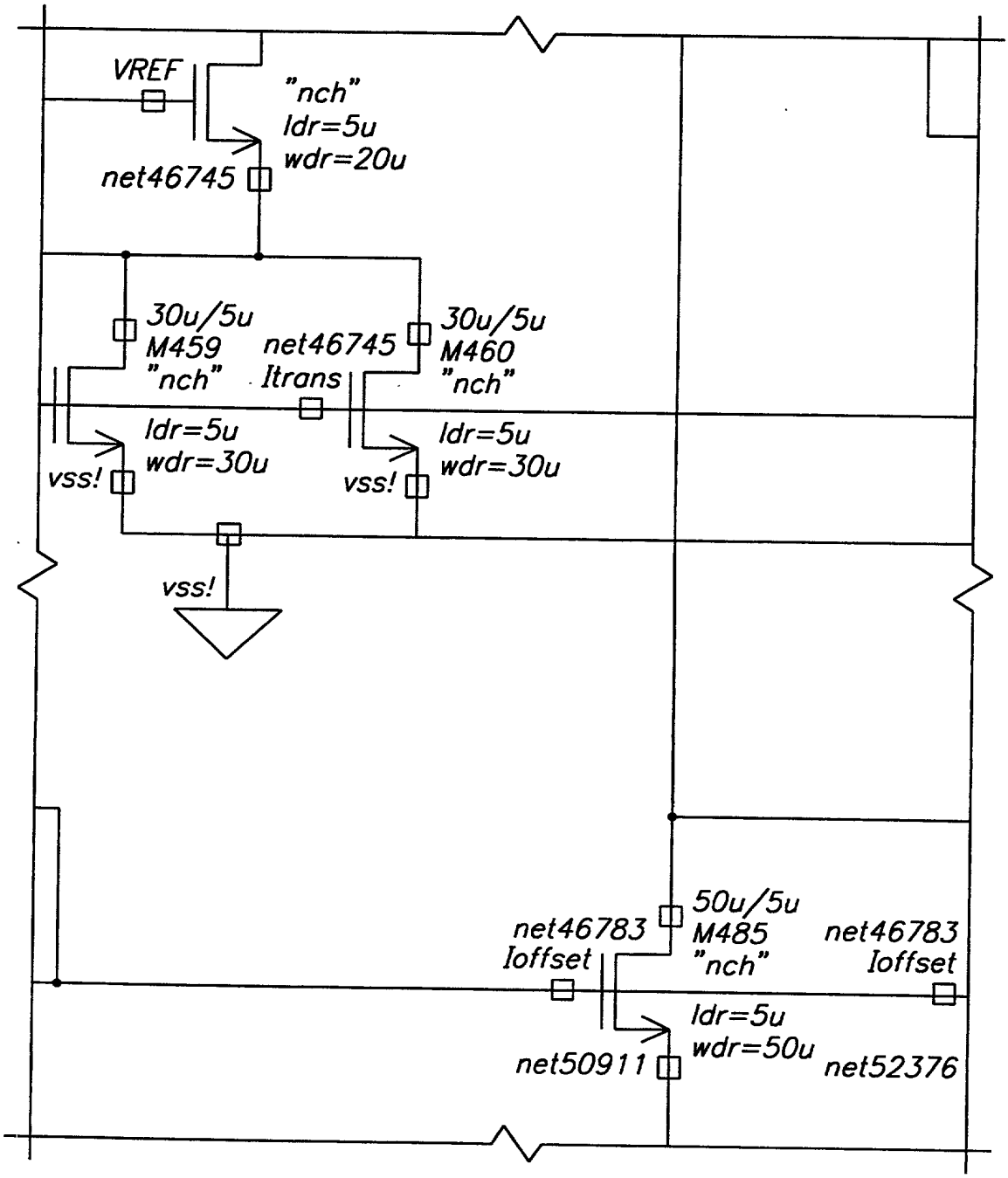

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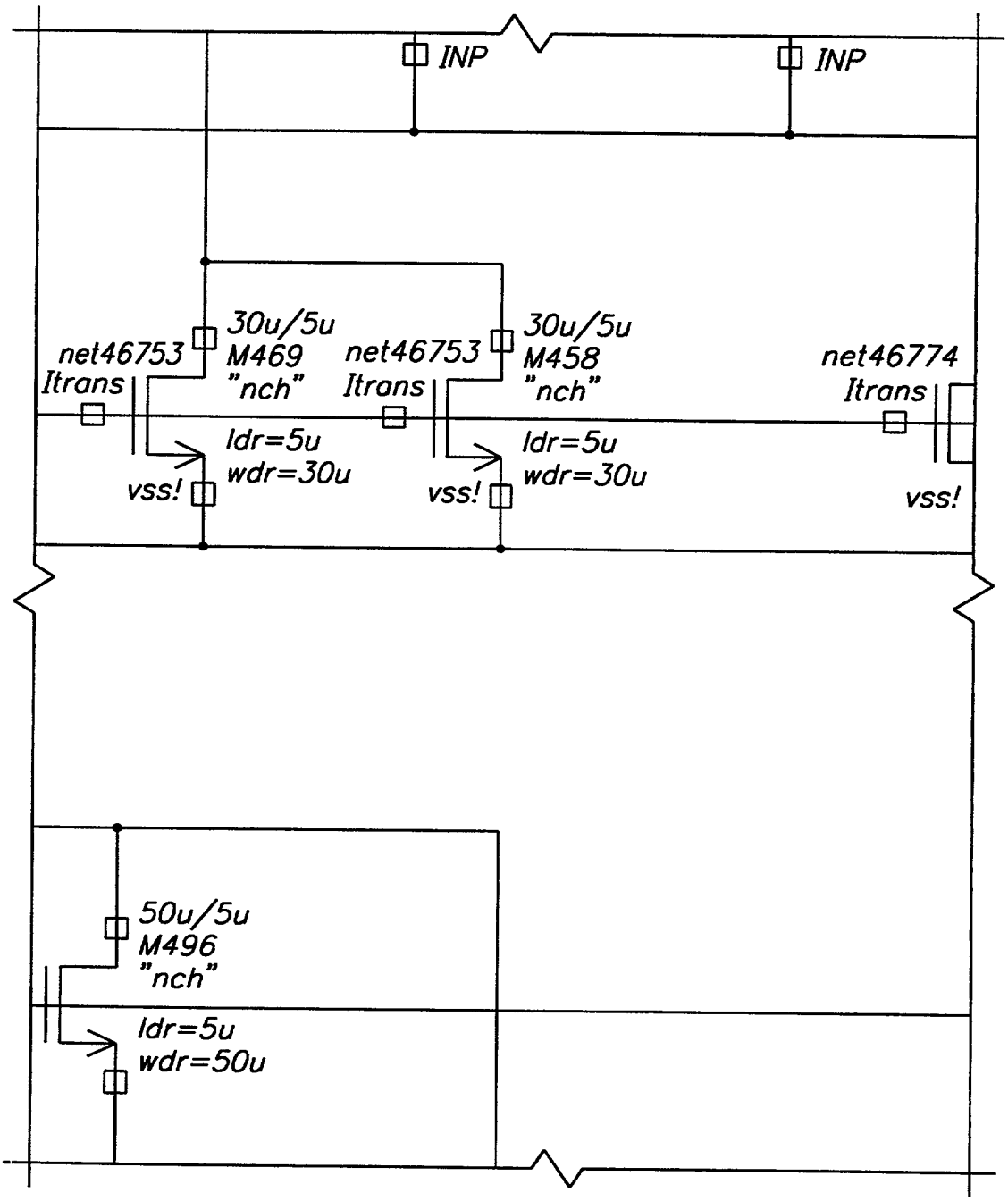

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Fig 8.050500

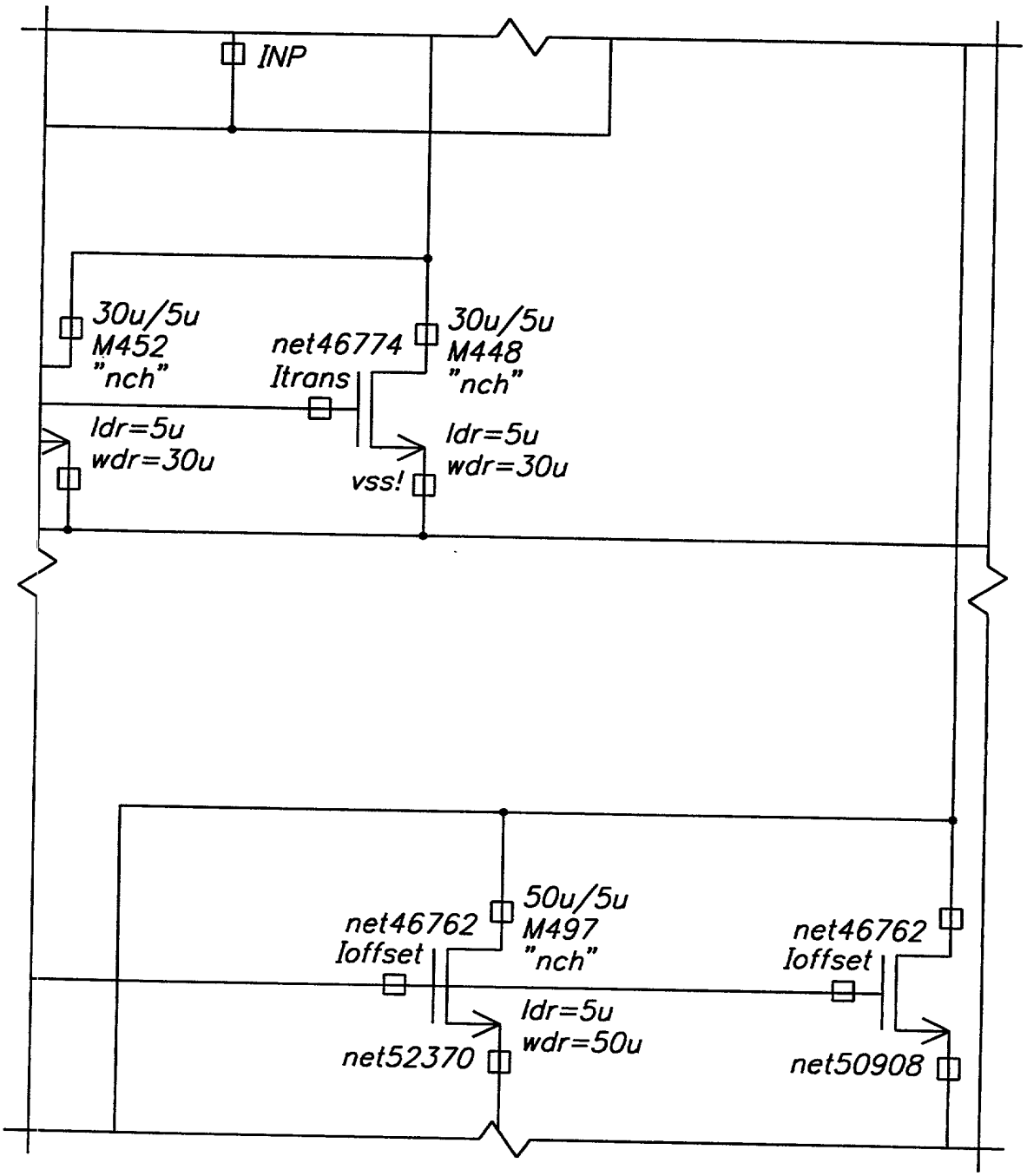


Fig 8.0505DE

Document - 0505DE

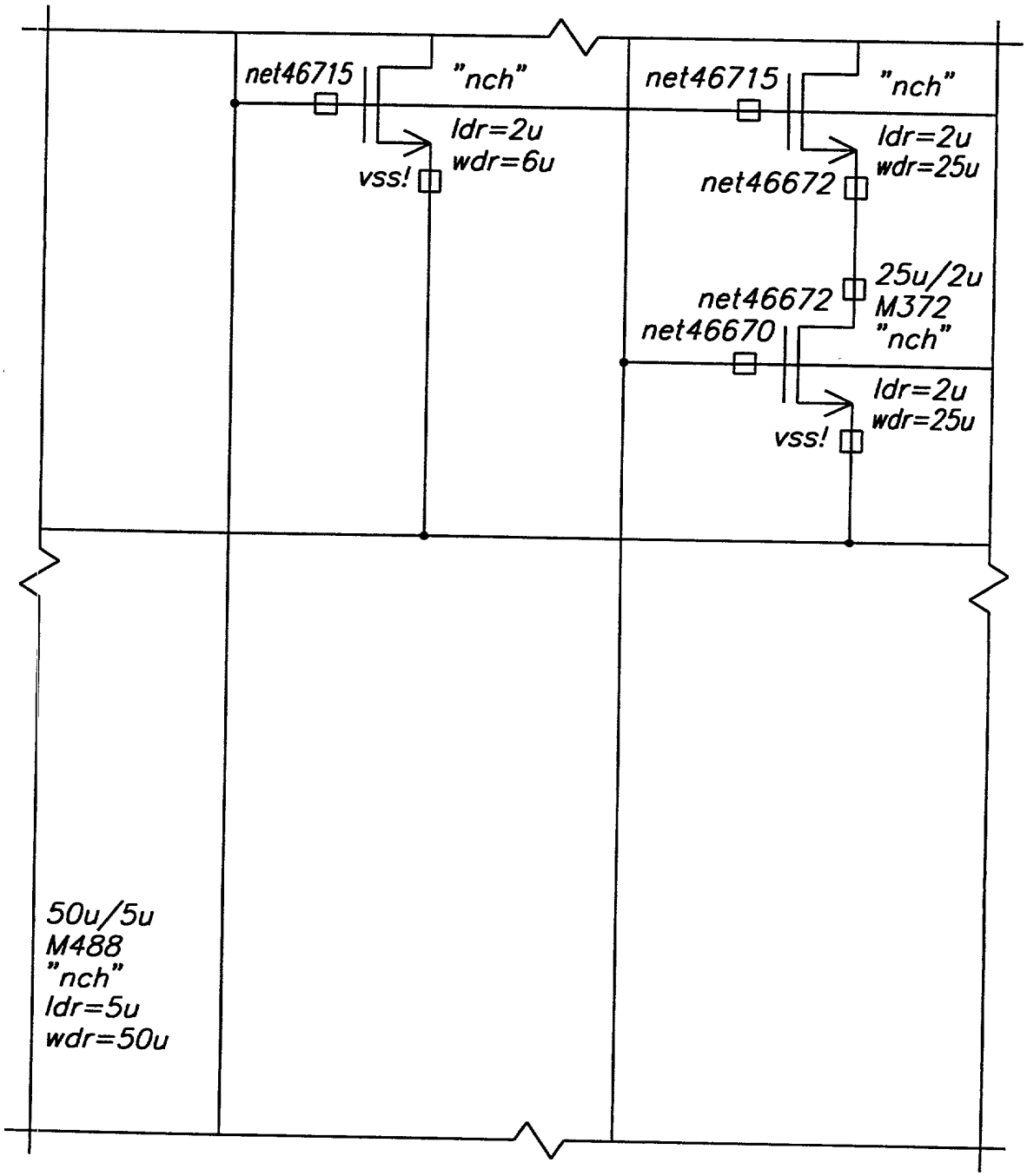


Fig 8.0505DF

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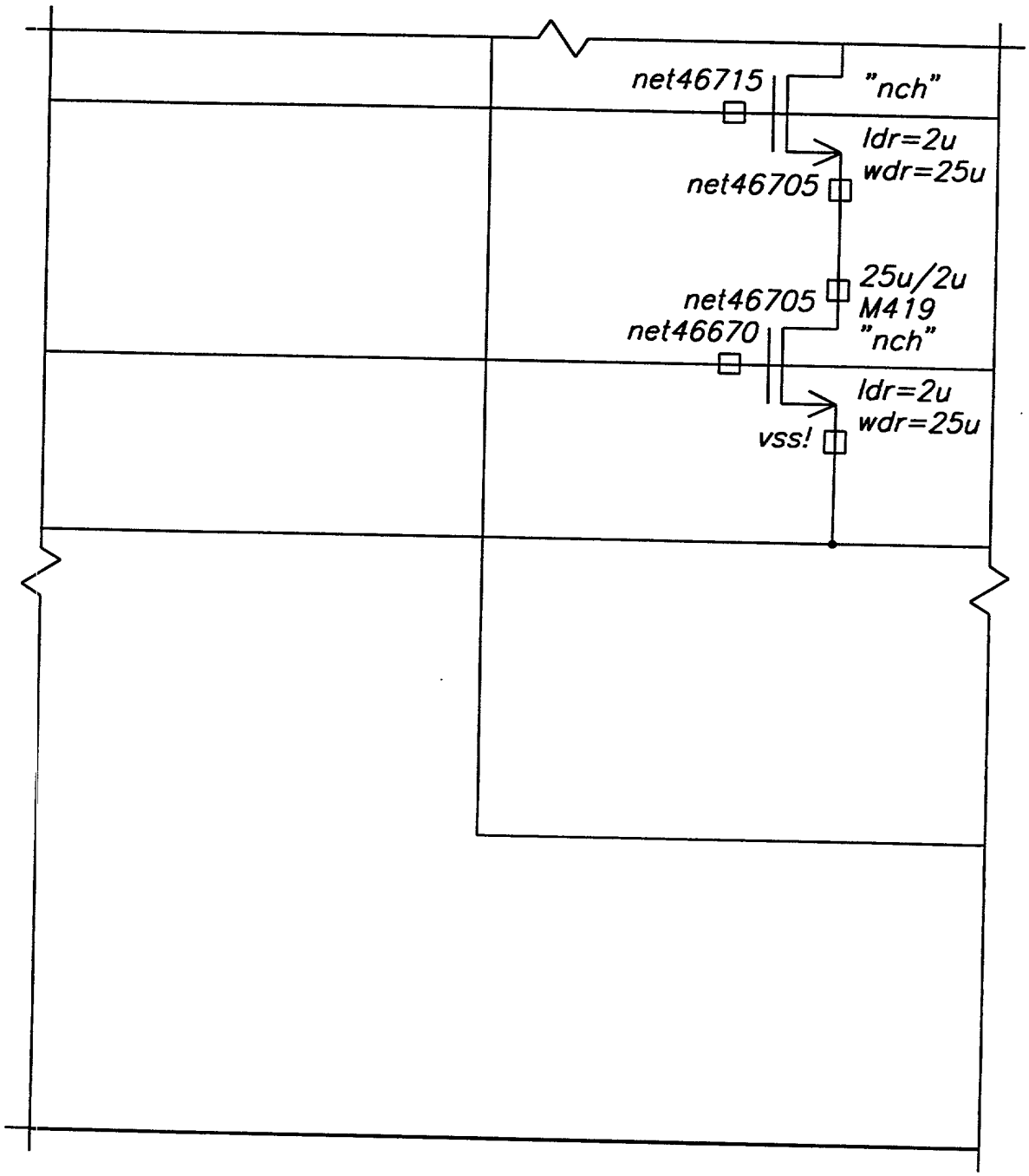


Fig 8.0505D6

5962-9563405MXA

1806/3273

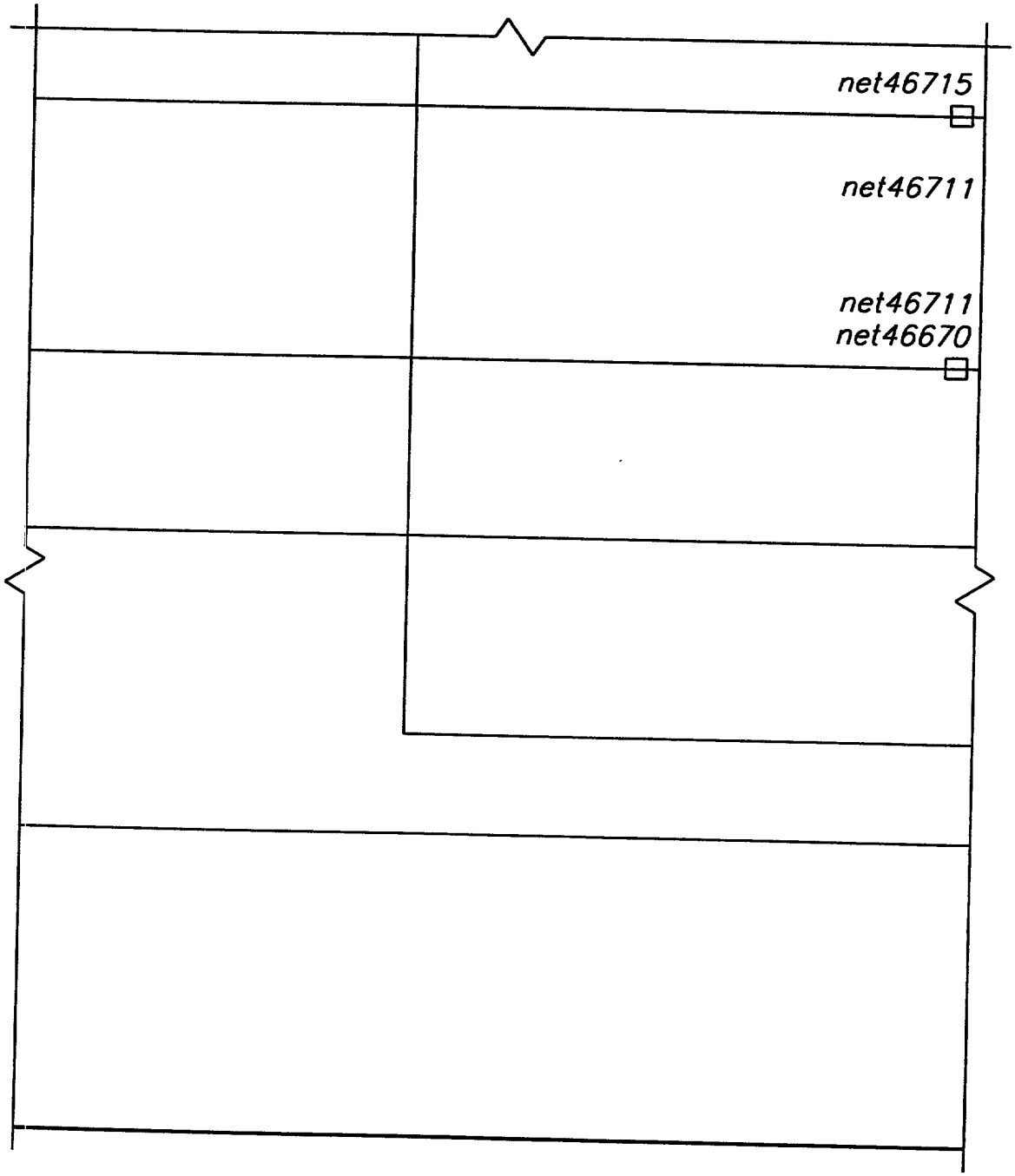


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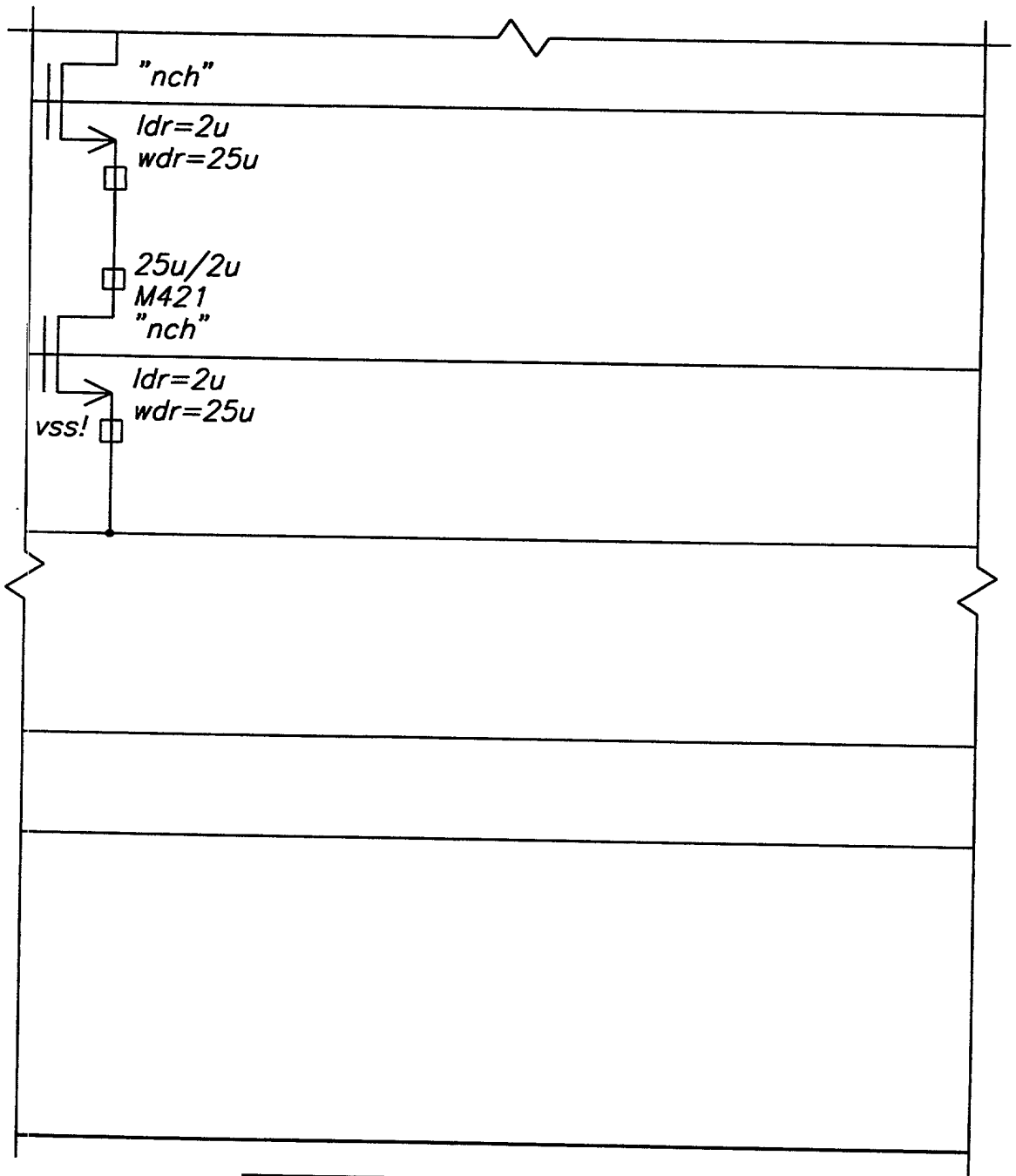


Fig 8.0505D1

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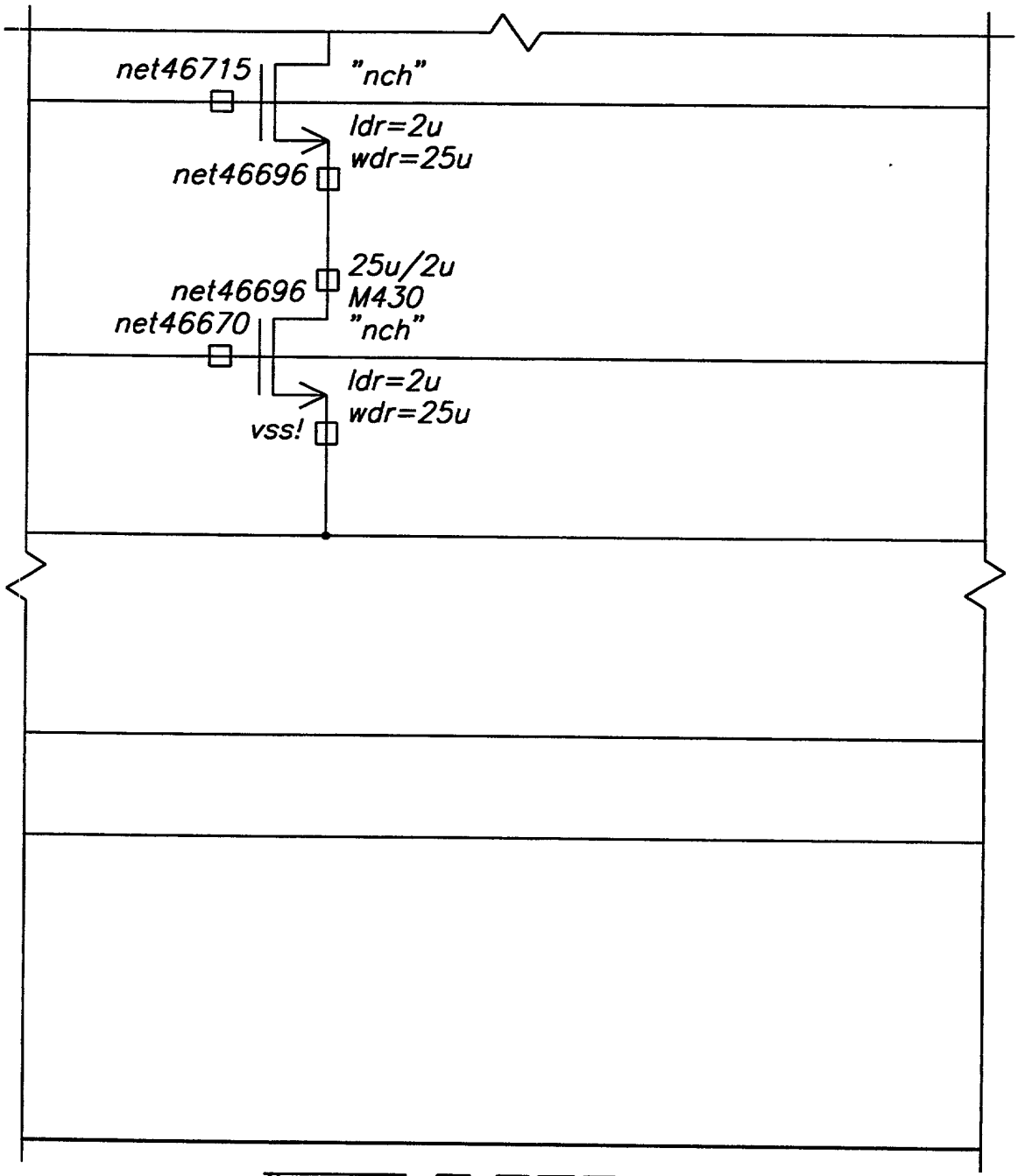


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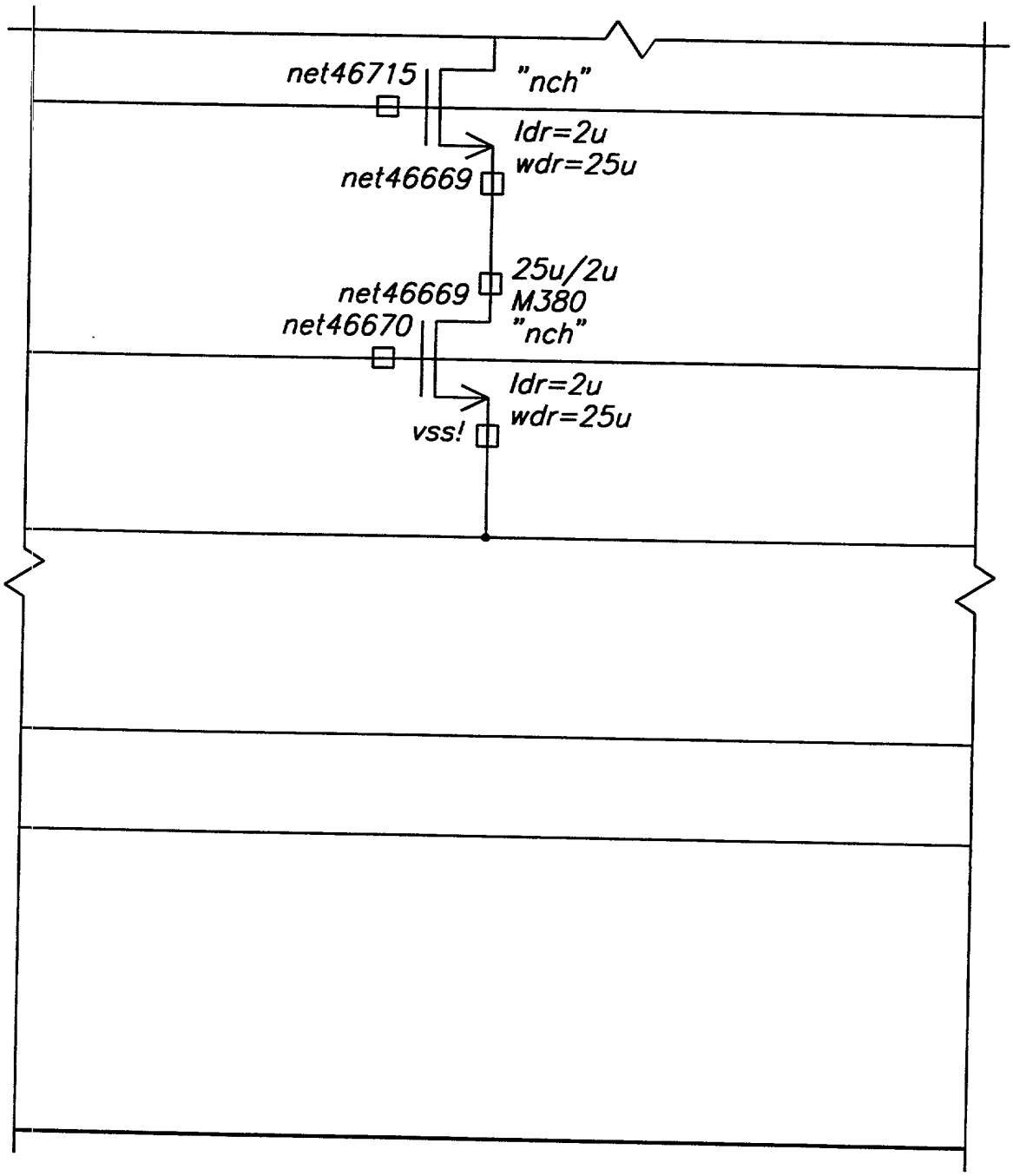

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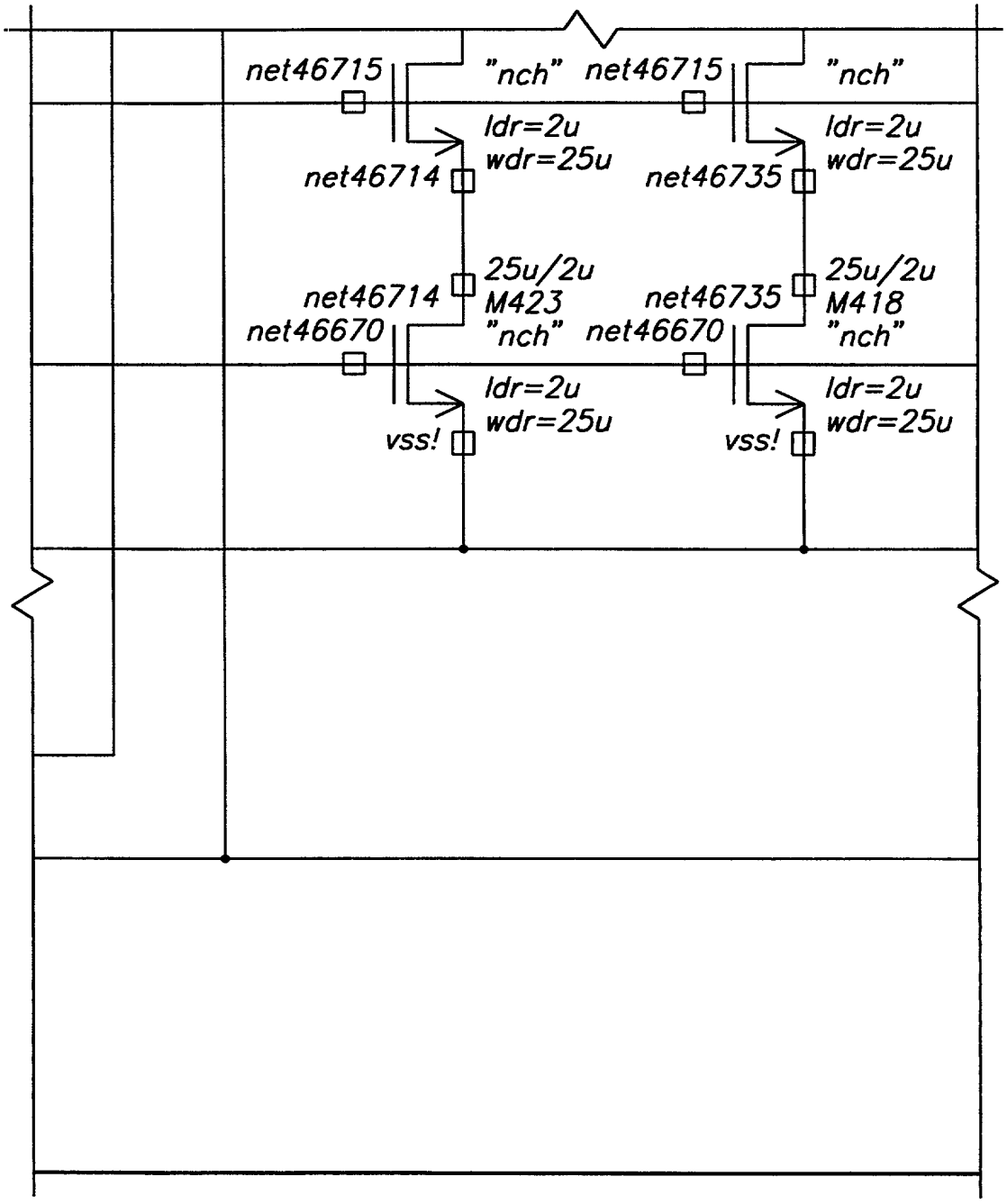


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US6252465 - 06-26-2001

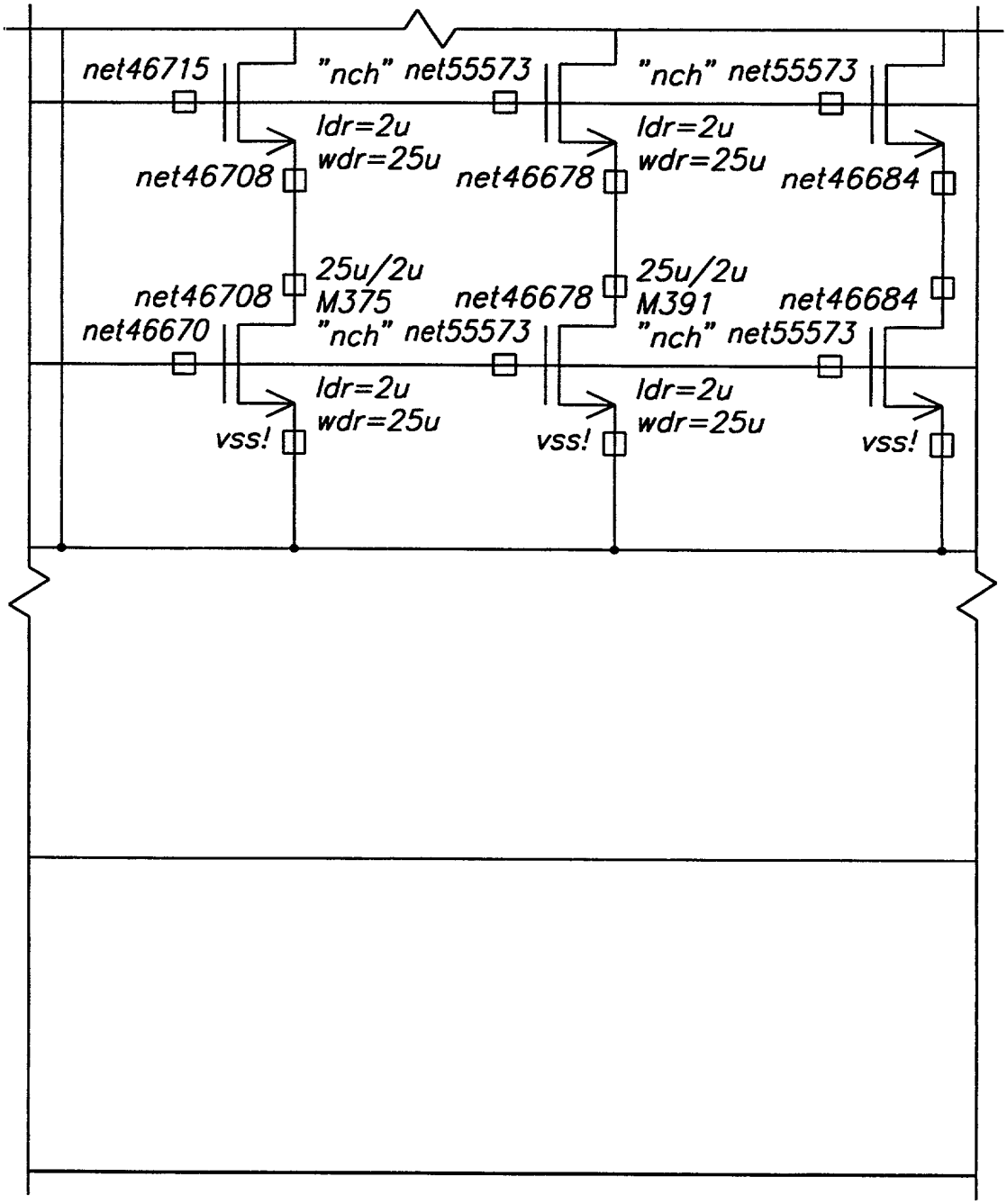

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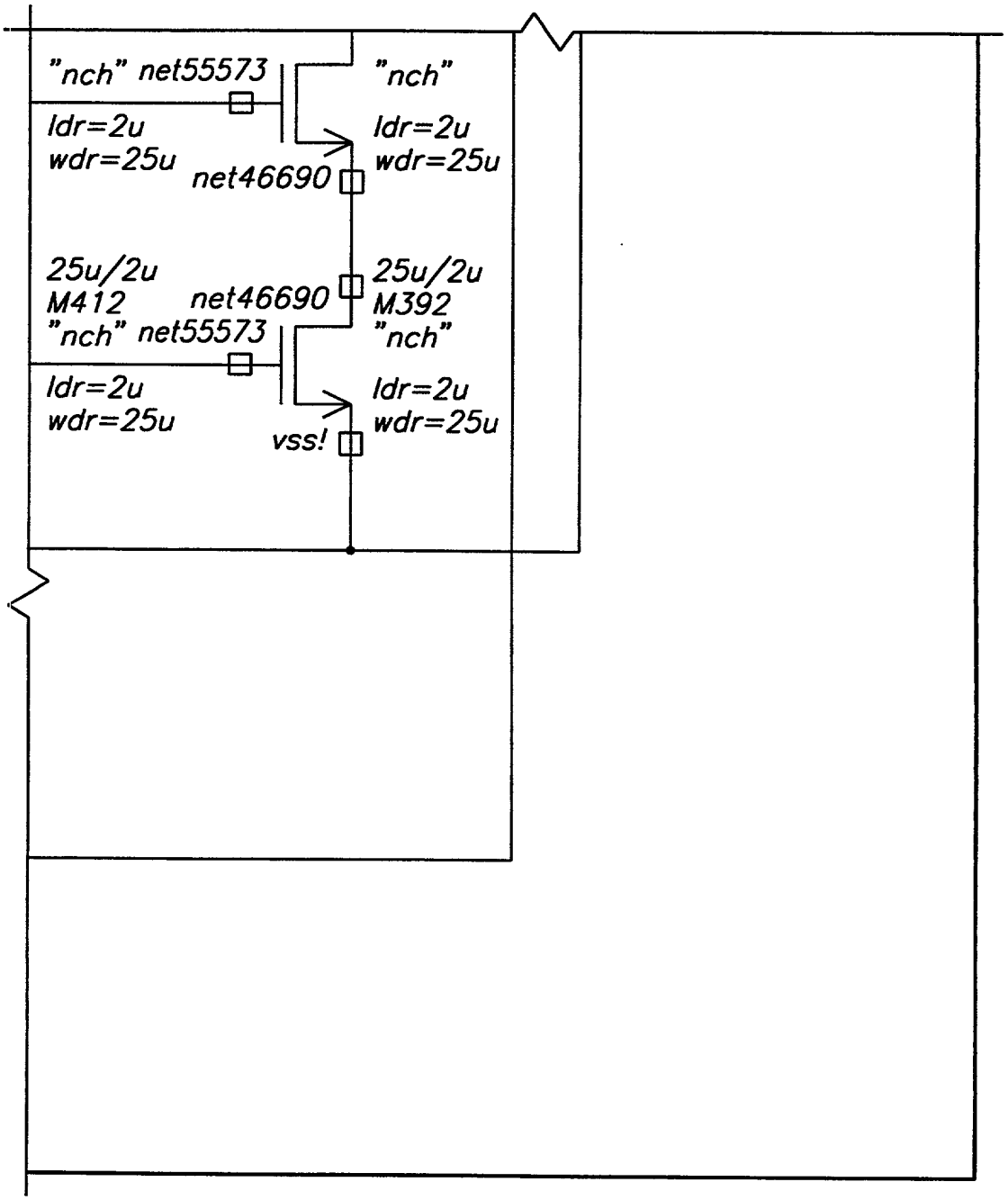
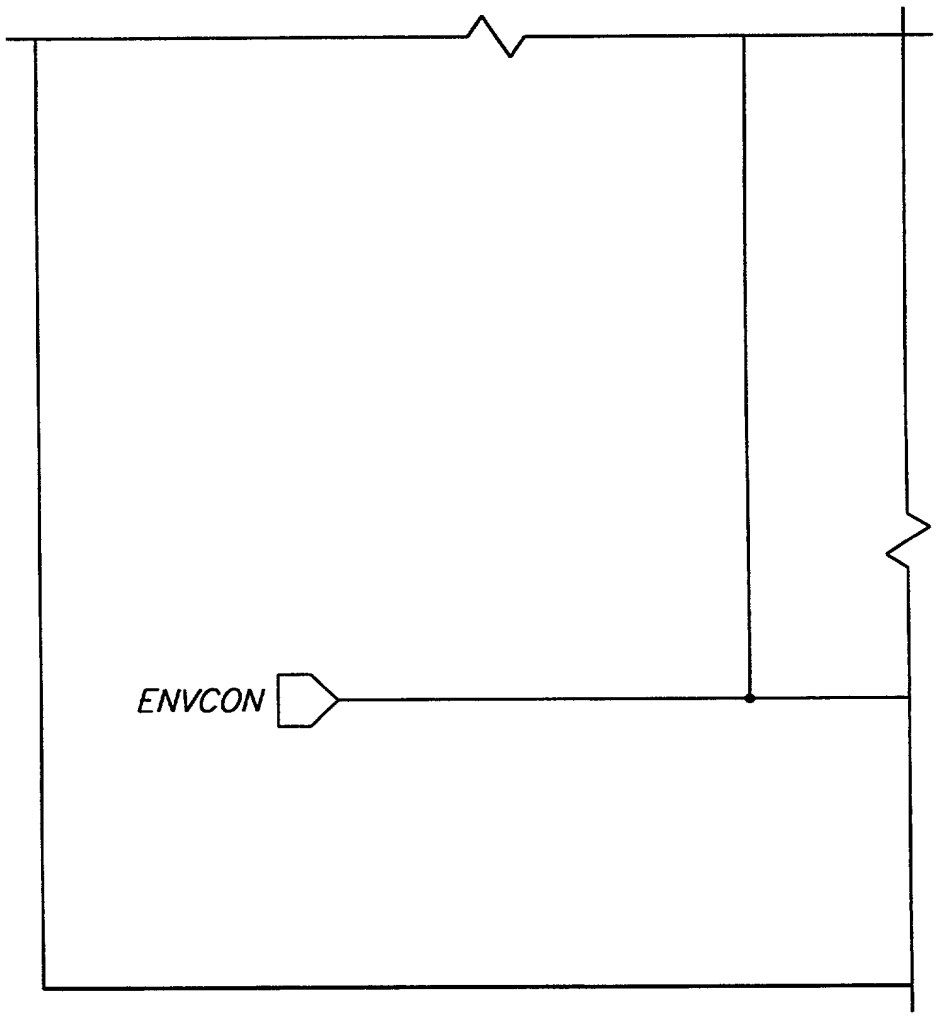


Fig 8.0505DN

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Esso 8.0SOSEA

Esso 8.0SOSEA

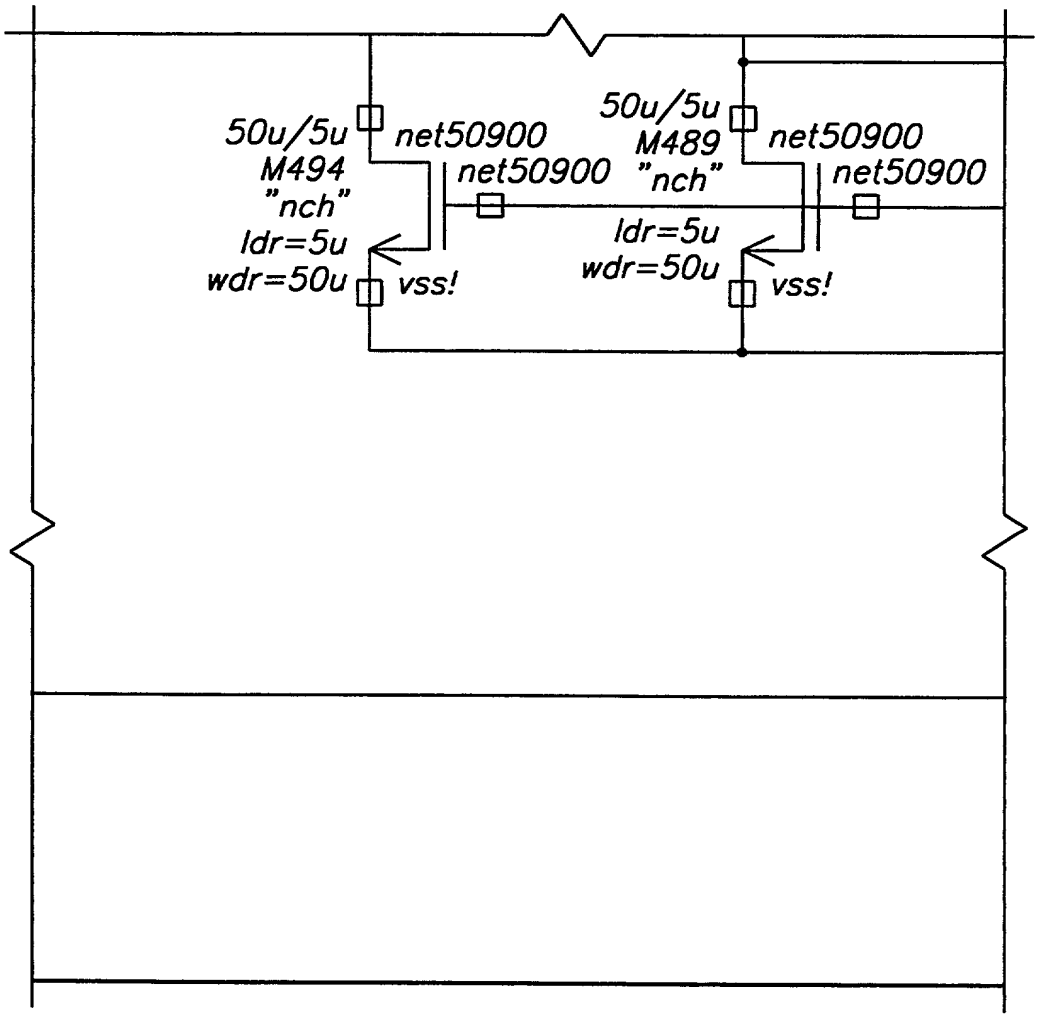


Fig 8.0505EB

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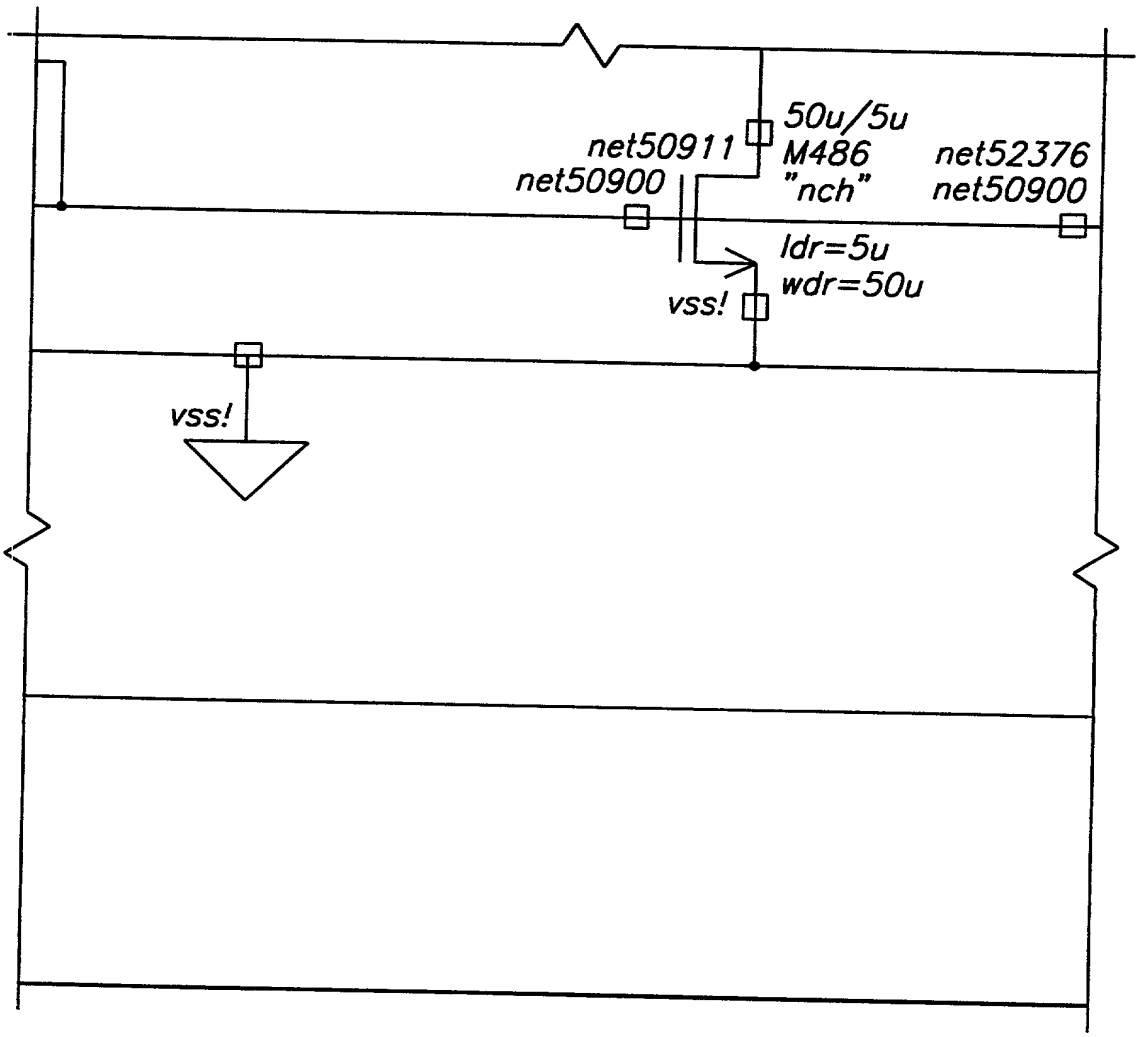

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vss!

Fig 8.0505EC

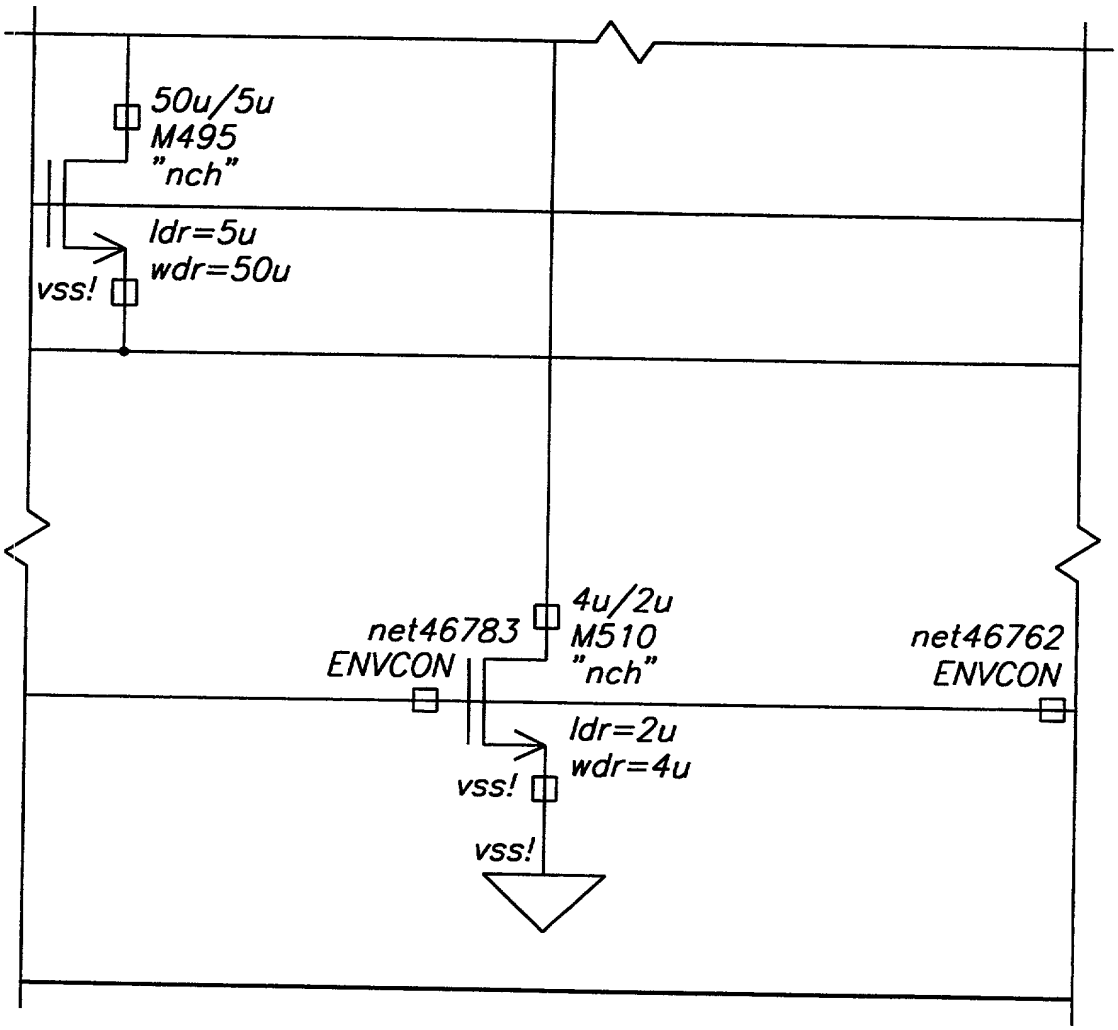

50u/5u
M495
"nch"
ldr=5u
wdr=50u
vss!
4u/2u
M510
"nch"
net46783
ENVCON
net46762
ENVCON
ldr=2u
wdr=4u
vss!
vss!

Fig 8.0505ED

US005905285A

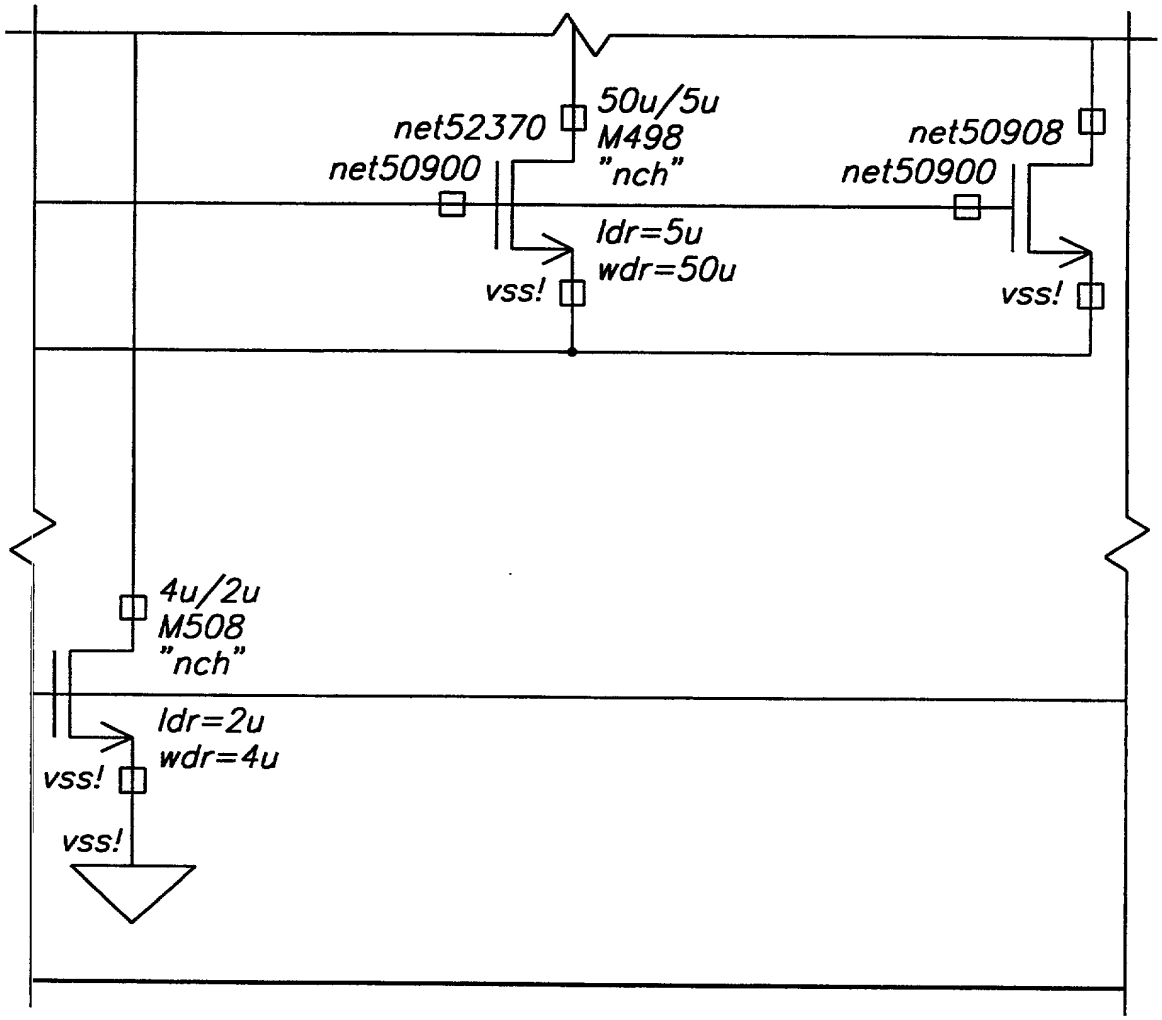


Fig 8.0505EE

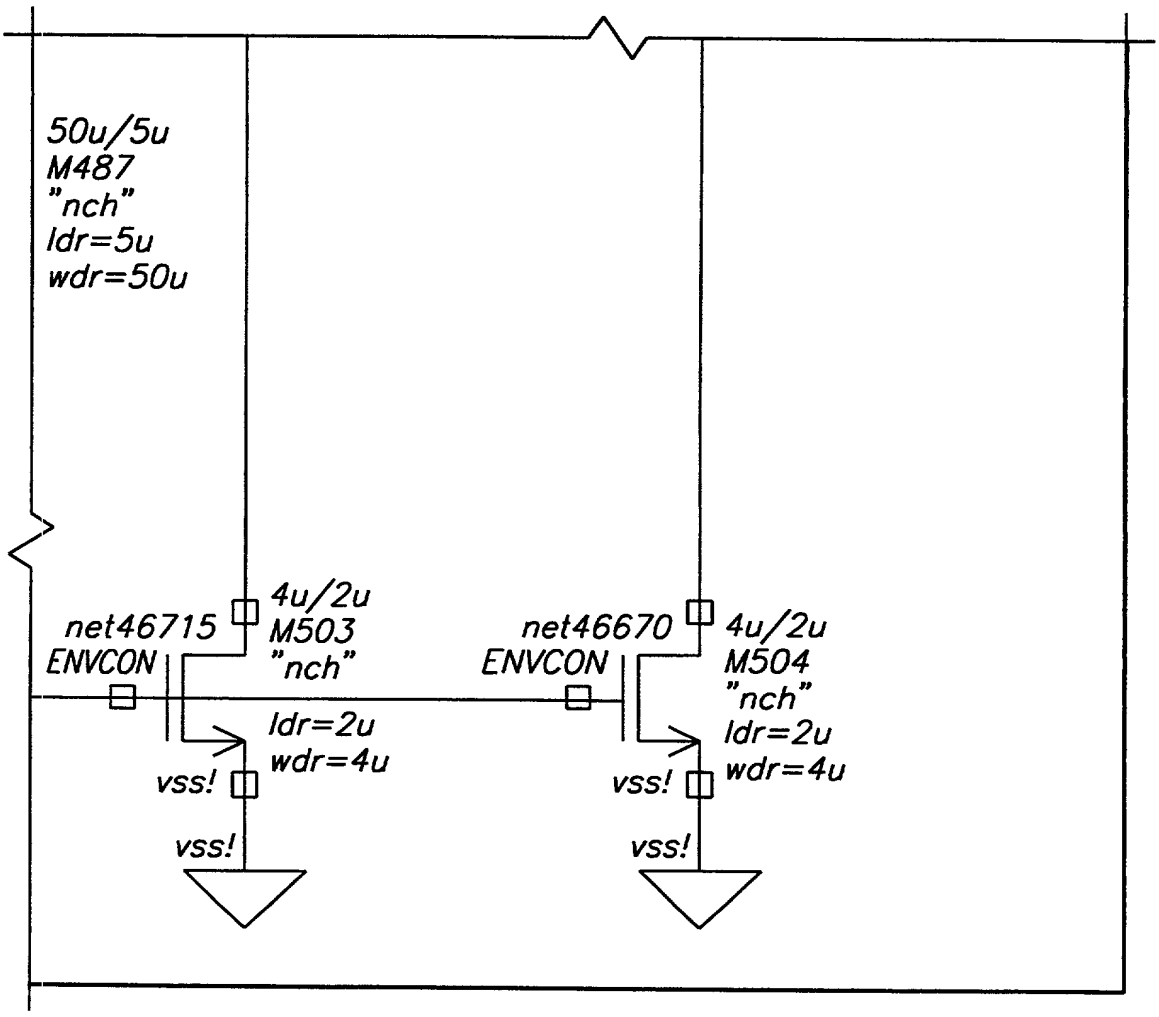
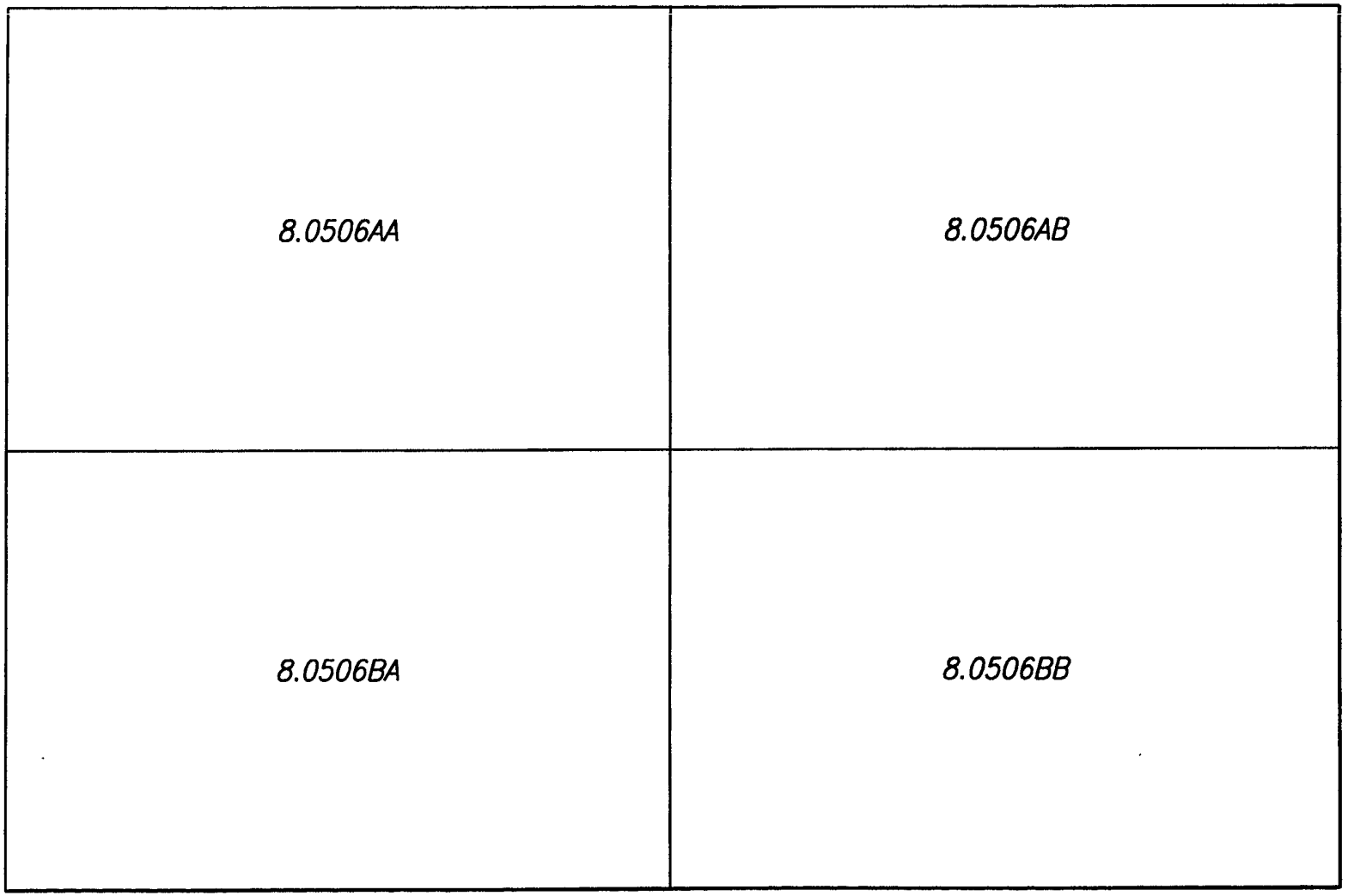

50u/5u
M487
"nch"
ldr=5u
wdr=50u
net46715
ENVCON
4u/2u
M503
"nch"
ldr=2u
wdr=4u
vss!
vss!
net46670
ENVCON
4u/2u
M504
"nch"
ldr=2u
wdr=4u
vss!
vss!

Fig 8.005EF

ГОТТЭП "ЭЛЬЗЭВЕР"



Лист 8.0506

1819/3273

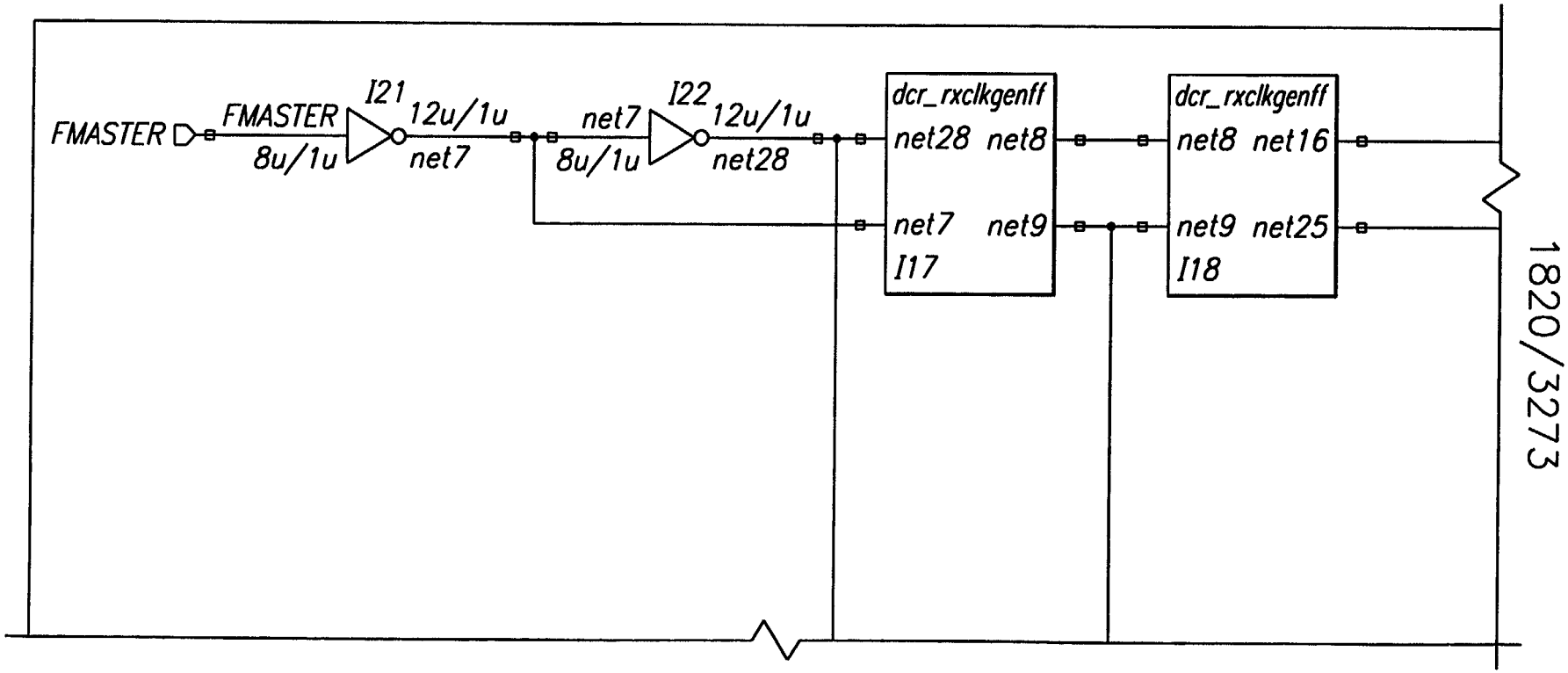

FMASTER
FMASTER
8u/1u
I21
12u/1u
net7
net7
8u/1u
I22
12u/1u
net28
dcr_rxclkgenff
net28 net8
net7 net9
I17
dcr_rxclkgenff
net8 net16
net9 net25
I18

Fig 8.0506AA

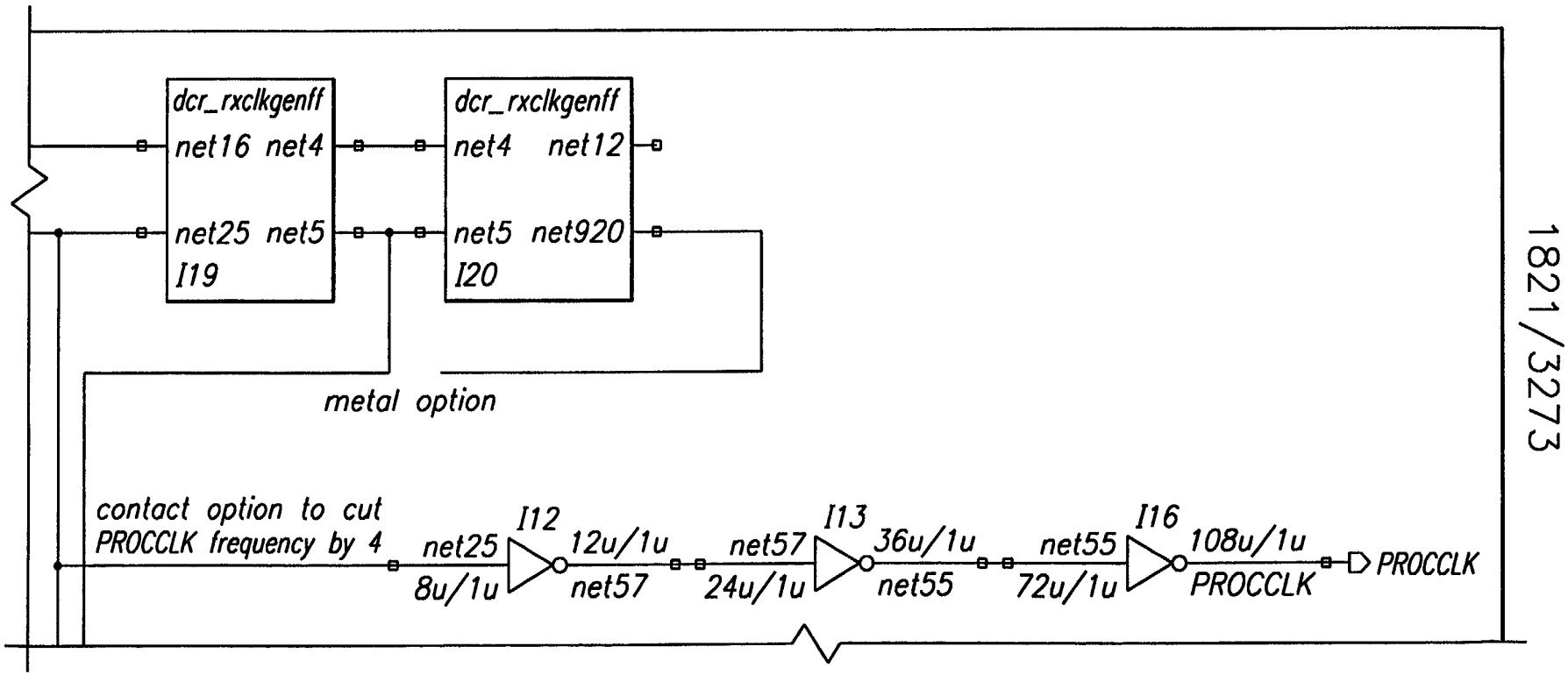

dcr_rxclkgenff
net16 net4
net25 net5
I19
dcr_rxclkgenff
net4 net12
net5 net920
I20
metal option
contact option to cut
PROCCLK frequency by 4
net25
8u/1u
I12
12u/1u
net57
net57
24u/1u
I13
36u/1u
net55
net55
72u/1u
I16
108u/1u
PROCCLK
PROCCLK
1821/3273

Fig 8.0506AB

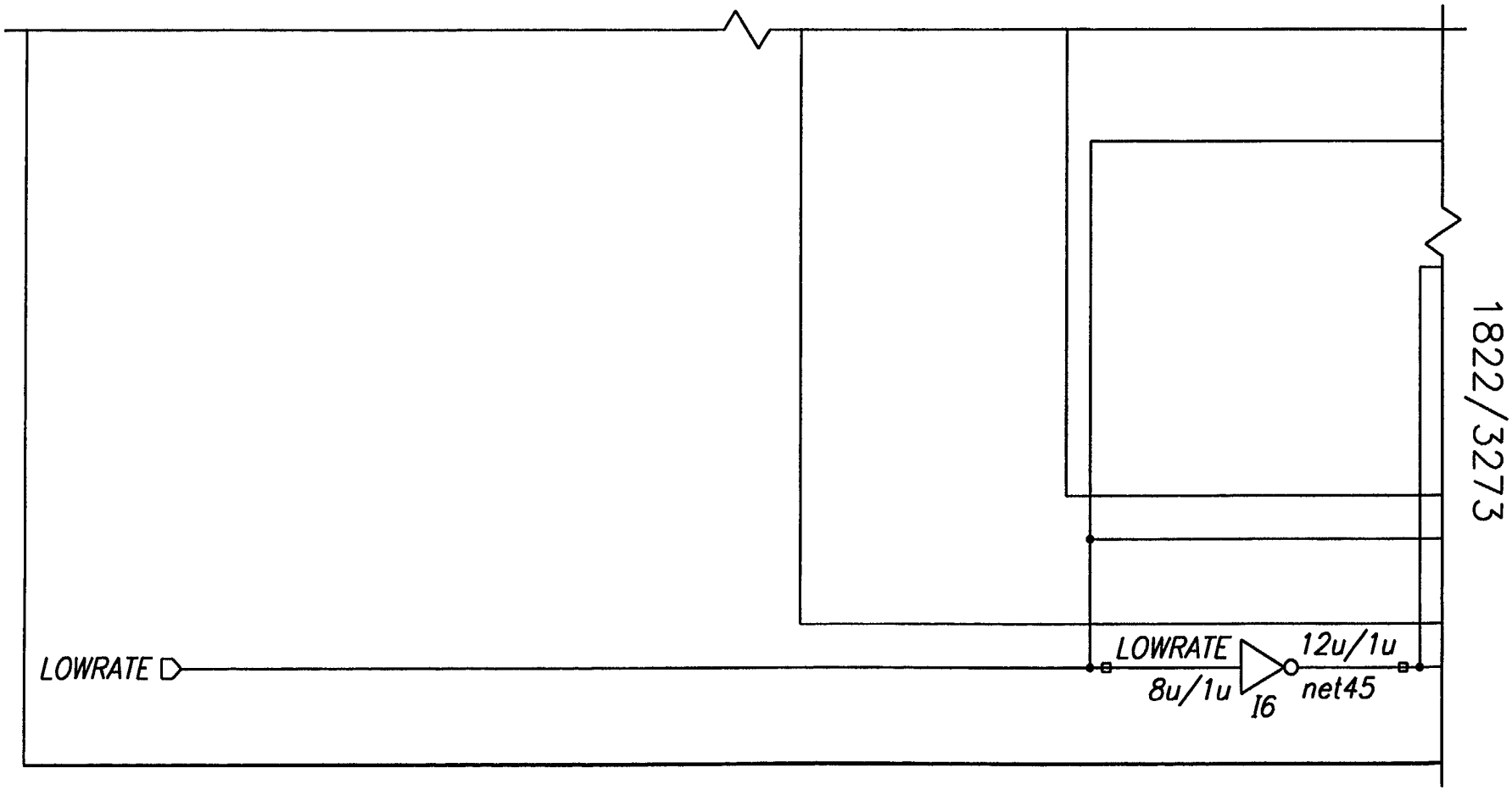


Fig 8.0506BA

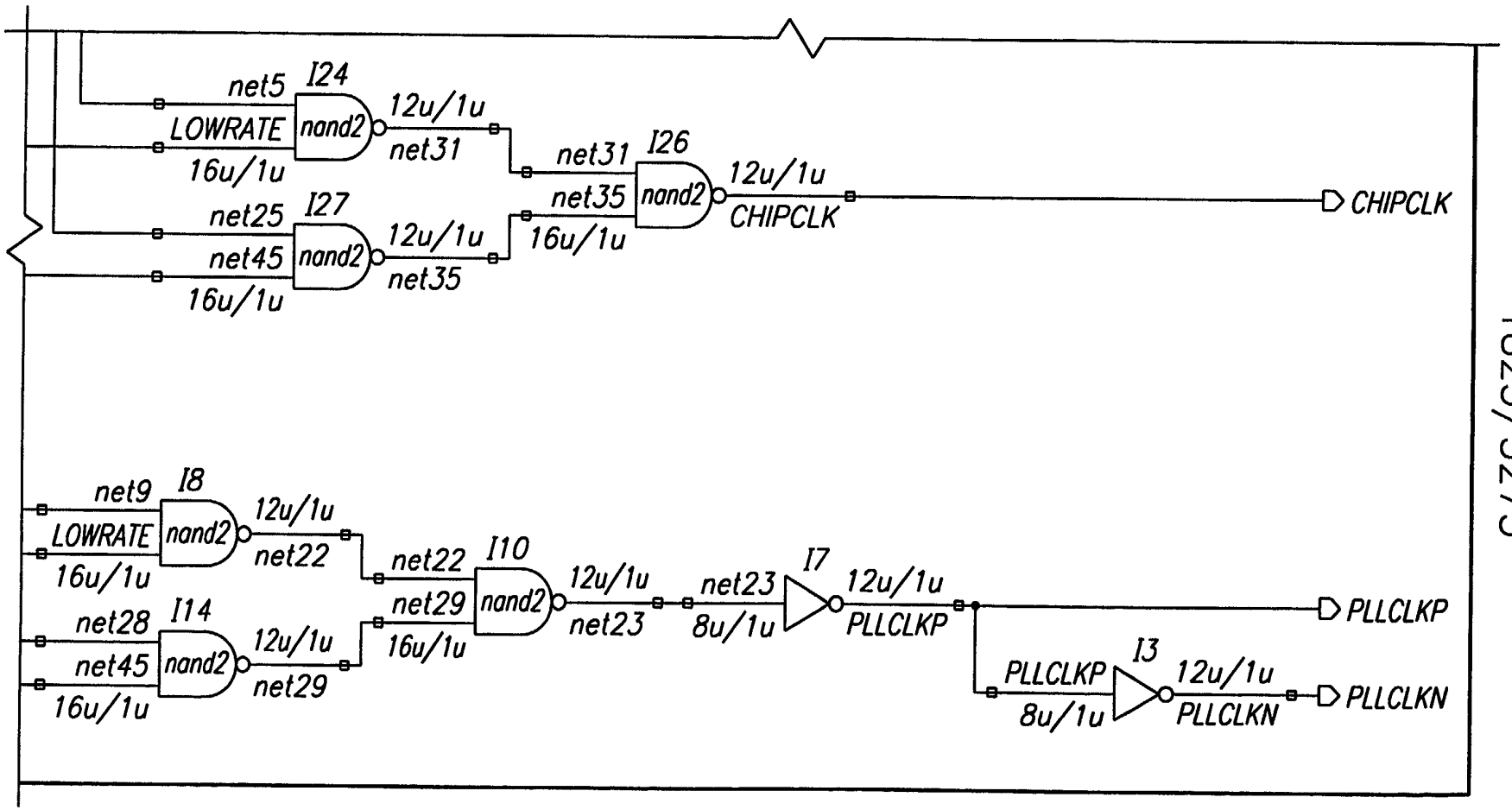
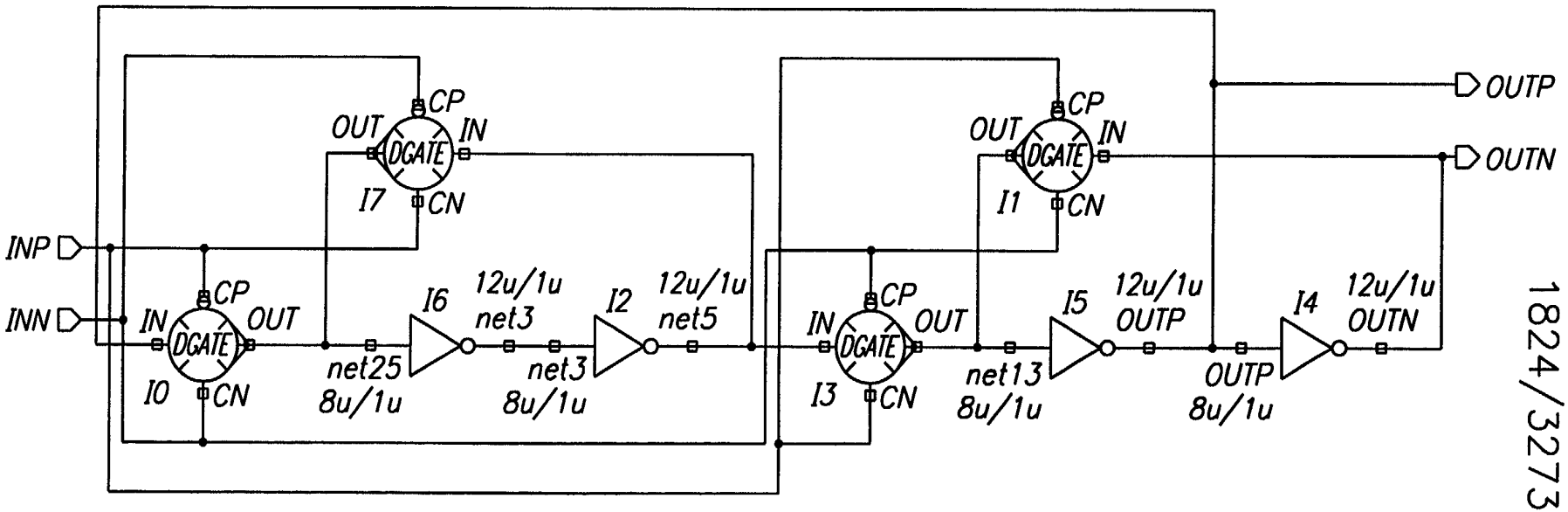

net5
I24
nand2
12u/1u
LOWRATE
net31
16u/1u
net31
I26
nand2
12u/1u
net35
CHIPCLK
16u/1u
CHIPCLK
net25
I27
nand2
12u/1u
net45
net35
16u/1u
net9
I8
nand2
12u/1u
LOWRATE
net22
16u/1u
net22
I10
nand2
12u/1u
net29
net23
16u/1u
net23
I7
12u/1u
8u/1u
PLLCLKP
PLLCLKP
net28
I14
nand2
12u/1u
net45
net29
16u/1u
PLLCLKP
I3
12u/1u
8u/1u
PLLCLKN
PLLCLKN

Fig 8.0506BB



1824/3273

Fig 8.050601

DOCTOR'S 90228860

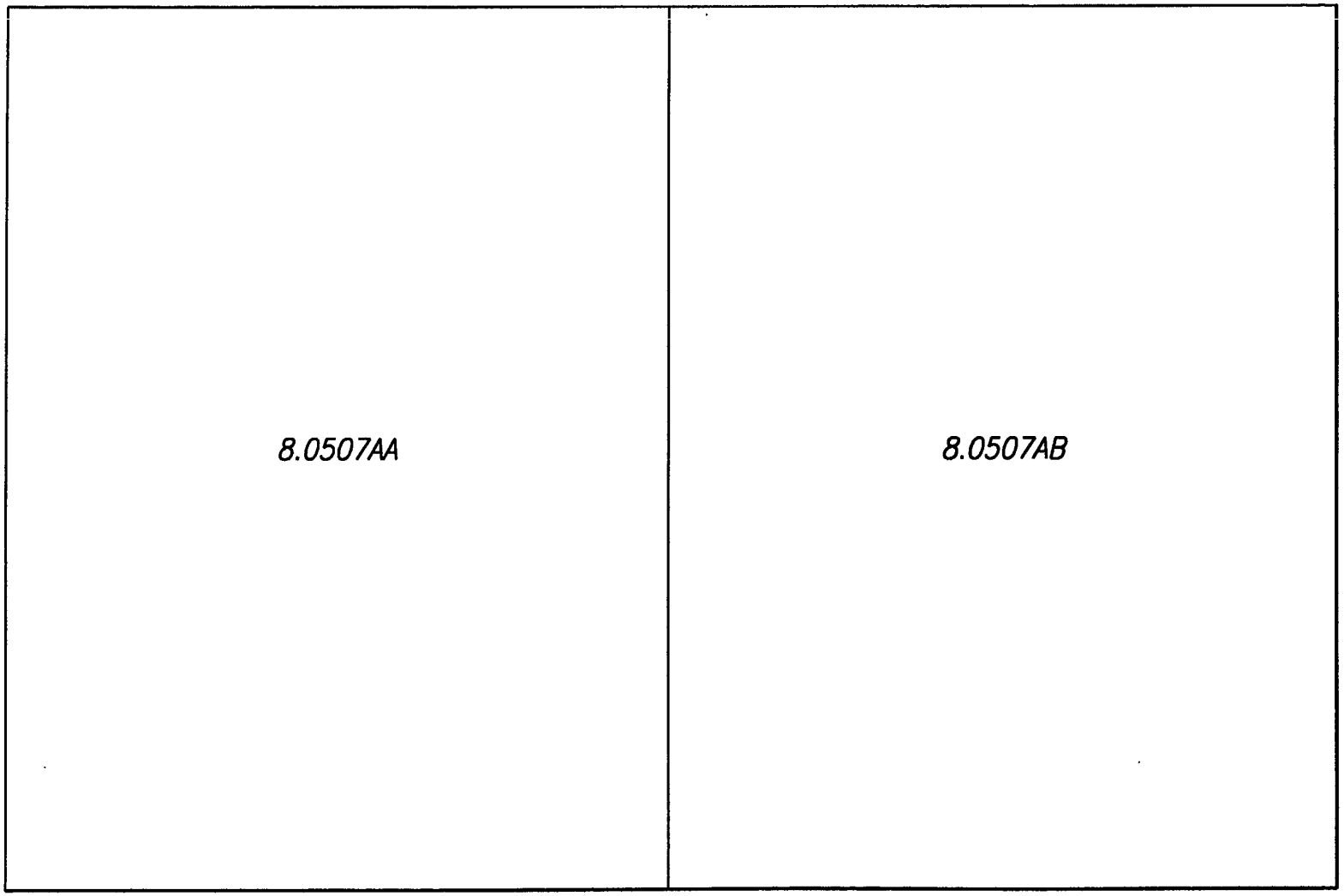


Fig 8.0507

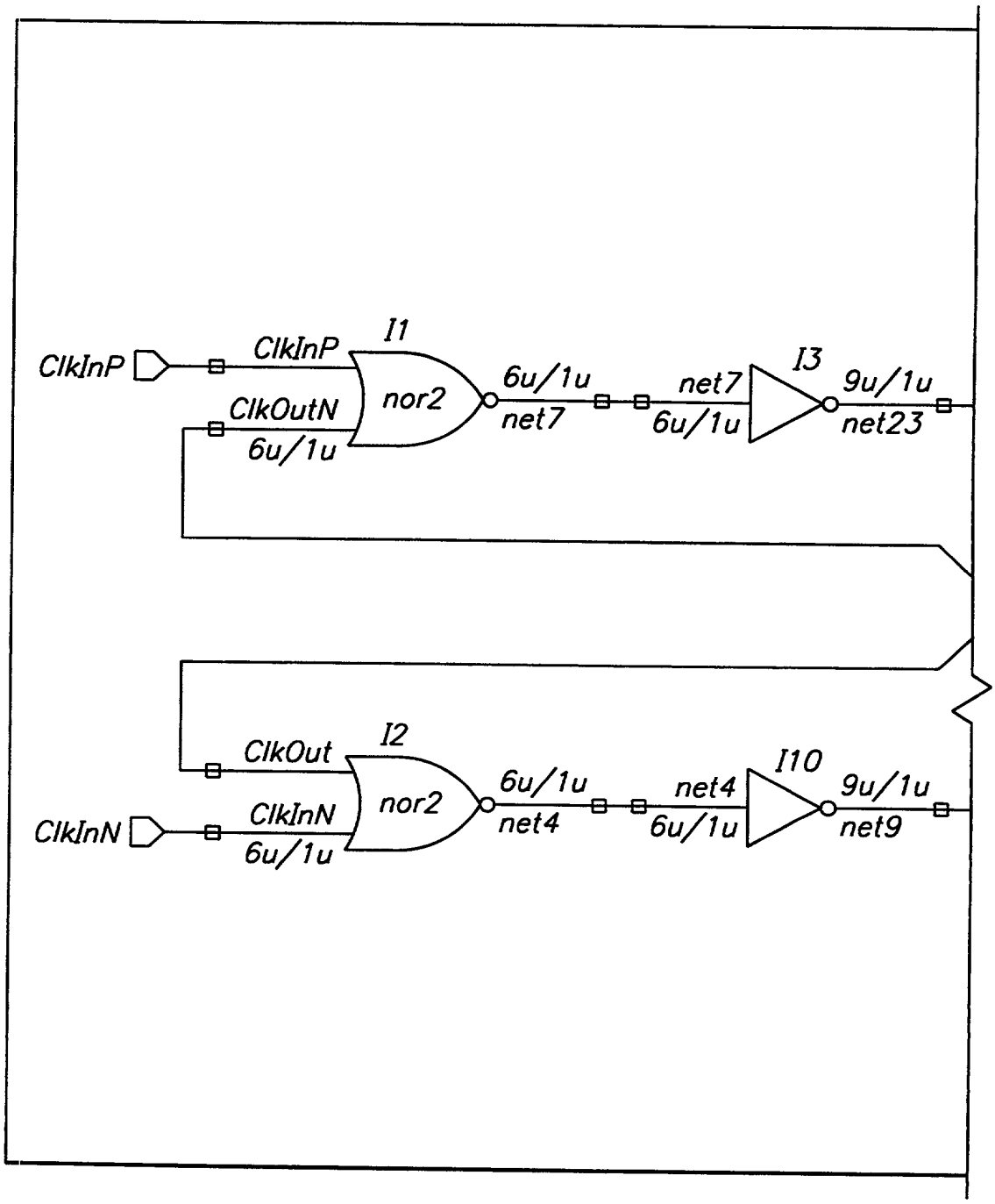

ClkInP
ClkInP
I1
ClkOutN
6u/1u
nor2
6u/1u
net7
net7
6u/1u
I3
9u/1u
net23
ClkOut
I2
ClkInN
6u/1u
nor2
6u/1u
net4
net4
6u/1u
I10
9u/1u
net9
ClkInN

Fig 8.0501AA

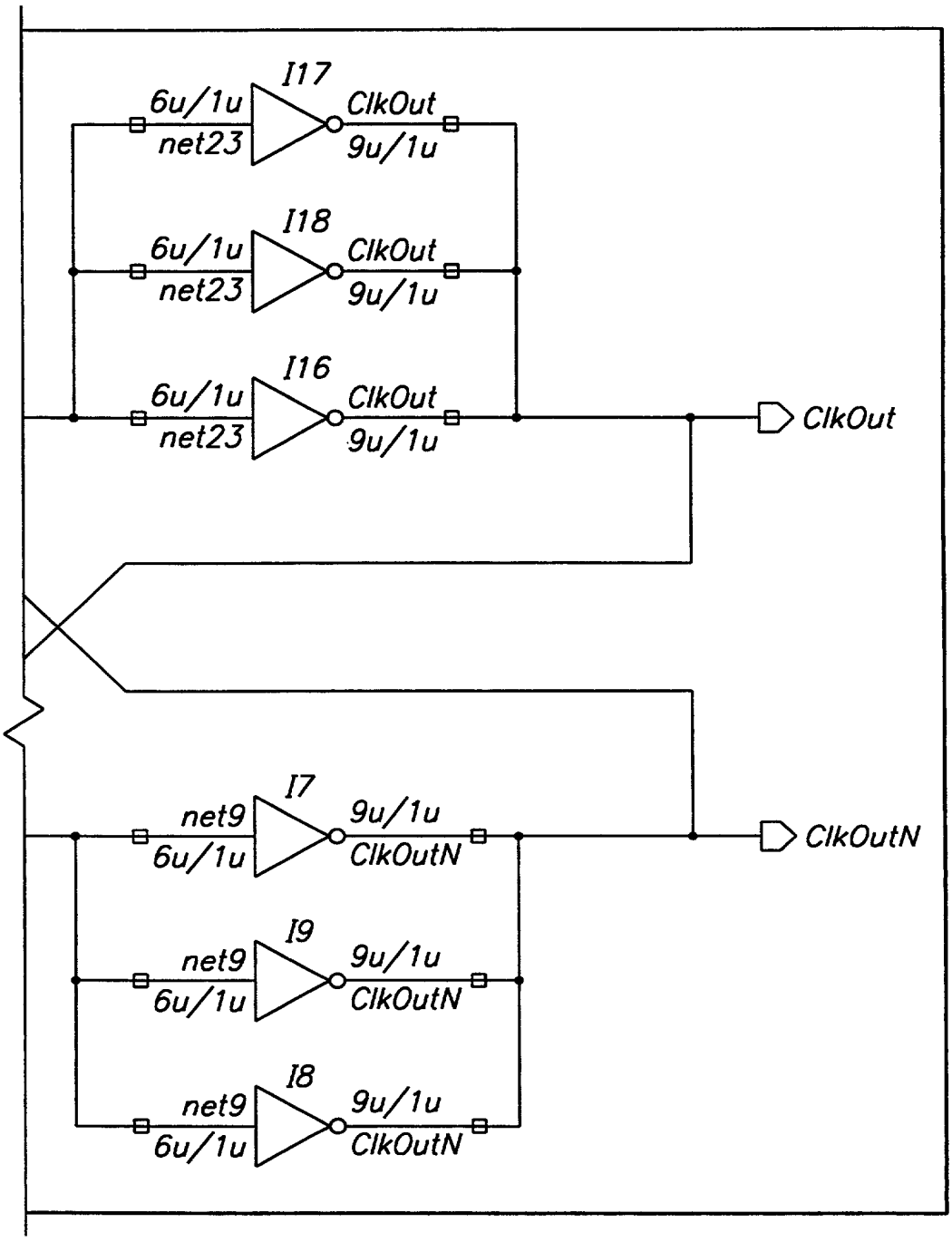

I17
6u/1u
net23
ClkOut
9u/1u
I18
6u/1u
net23
ClkOut
9u/1u
I16
6u/1u
net23
ClkOut
9u/1u
ClkOut
I7
net9
6u/1u
9u/1u
ClkOutN
ClkOutN
I9
net9
6u/1u
9u/1u
ClkOutN
I8
net9
6u/1u
9u/1u
ClkOutN

Fig 8.0501AB

EDIT90" E90228860

8.06AA	8.06AB	8.06AC	8.06AD
8.06BA	8.06BB	8.06BC	8.06BD
8.06CA	8.06CB	8.06CC	8.06CD
8.06DA	8.06DB	8.06DC	8.06DD
8.06EA	8.06EB	8.06EC	8.06ED

Лист 8.006

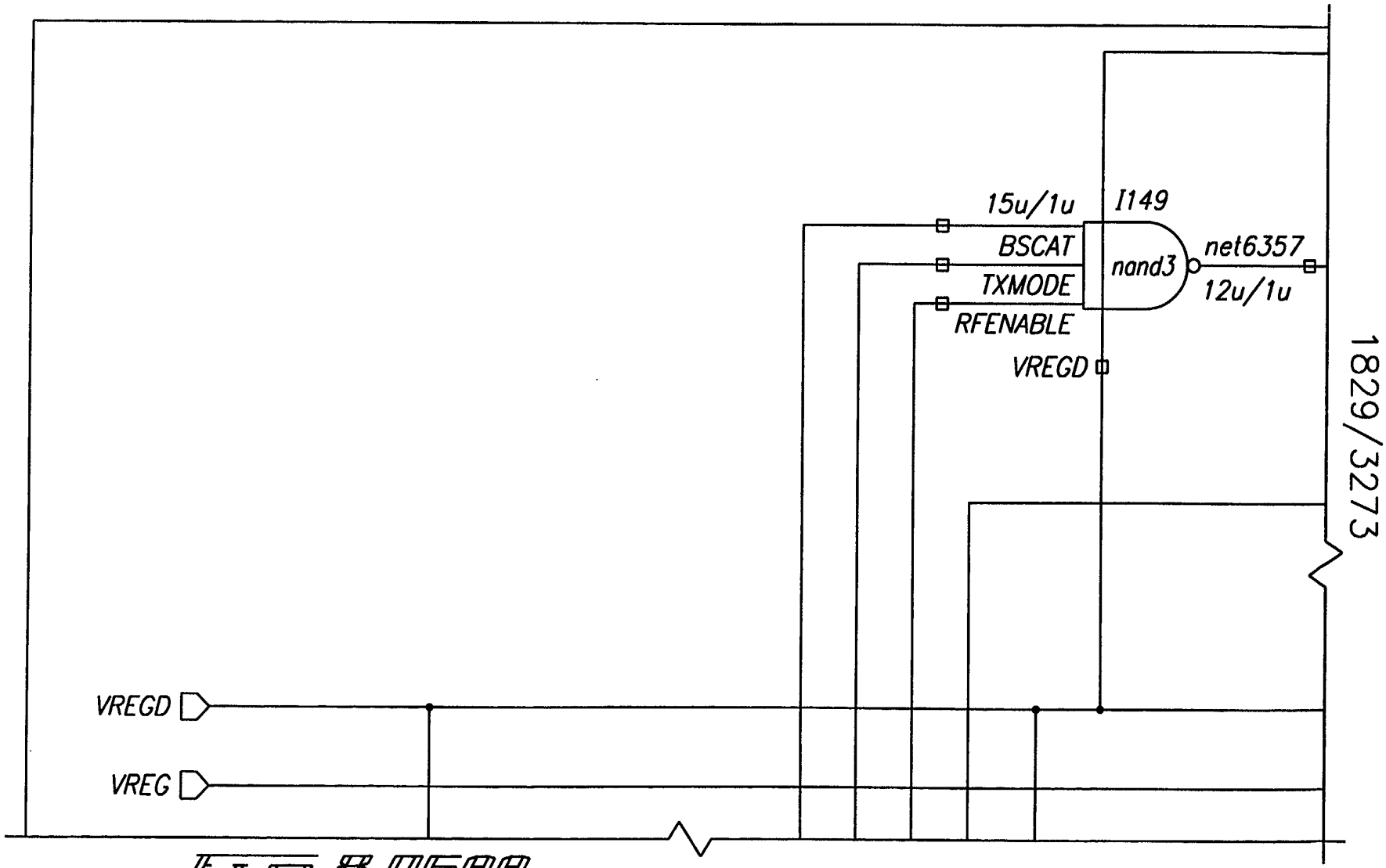
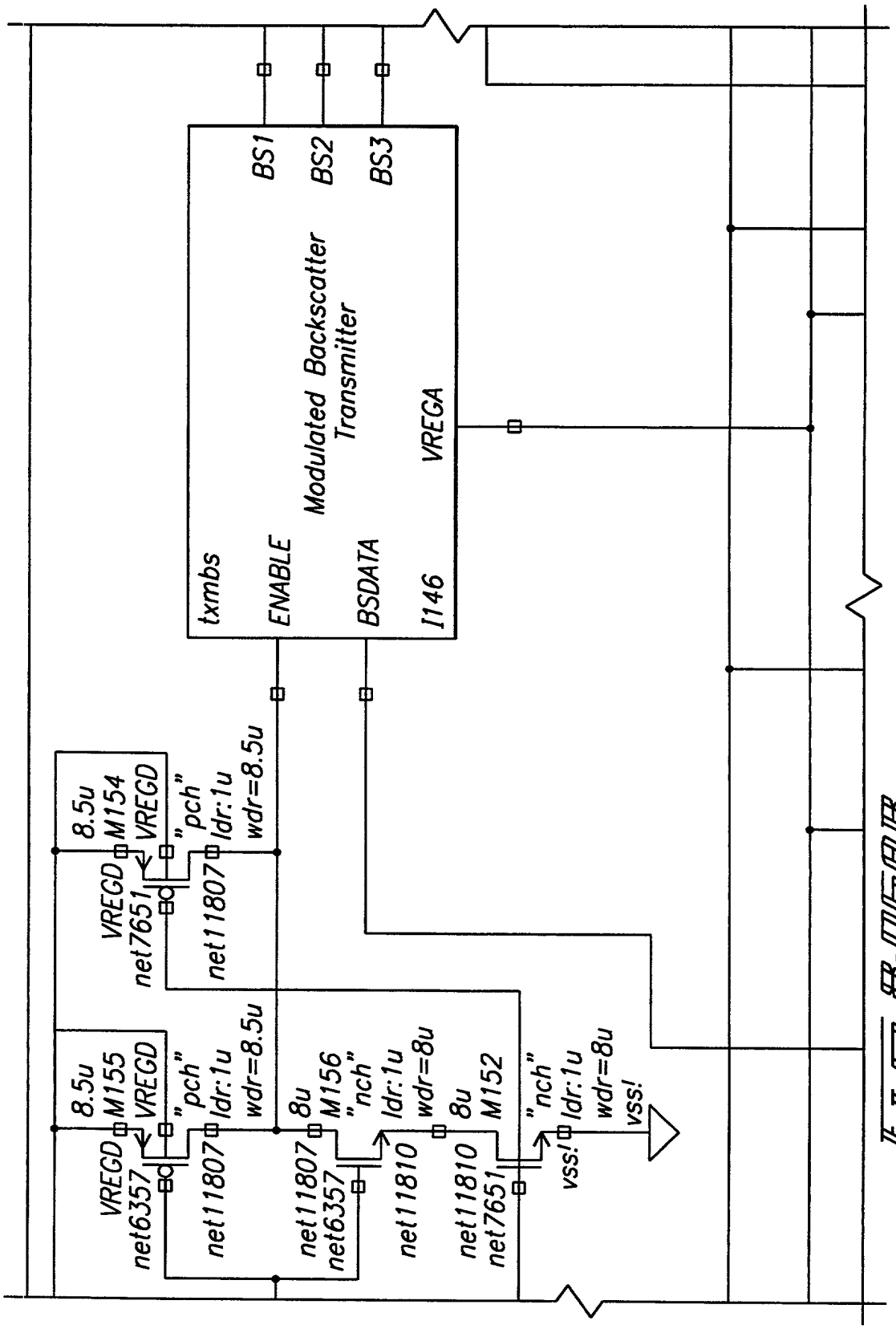
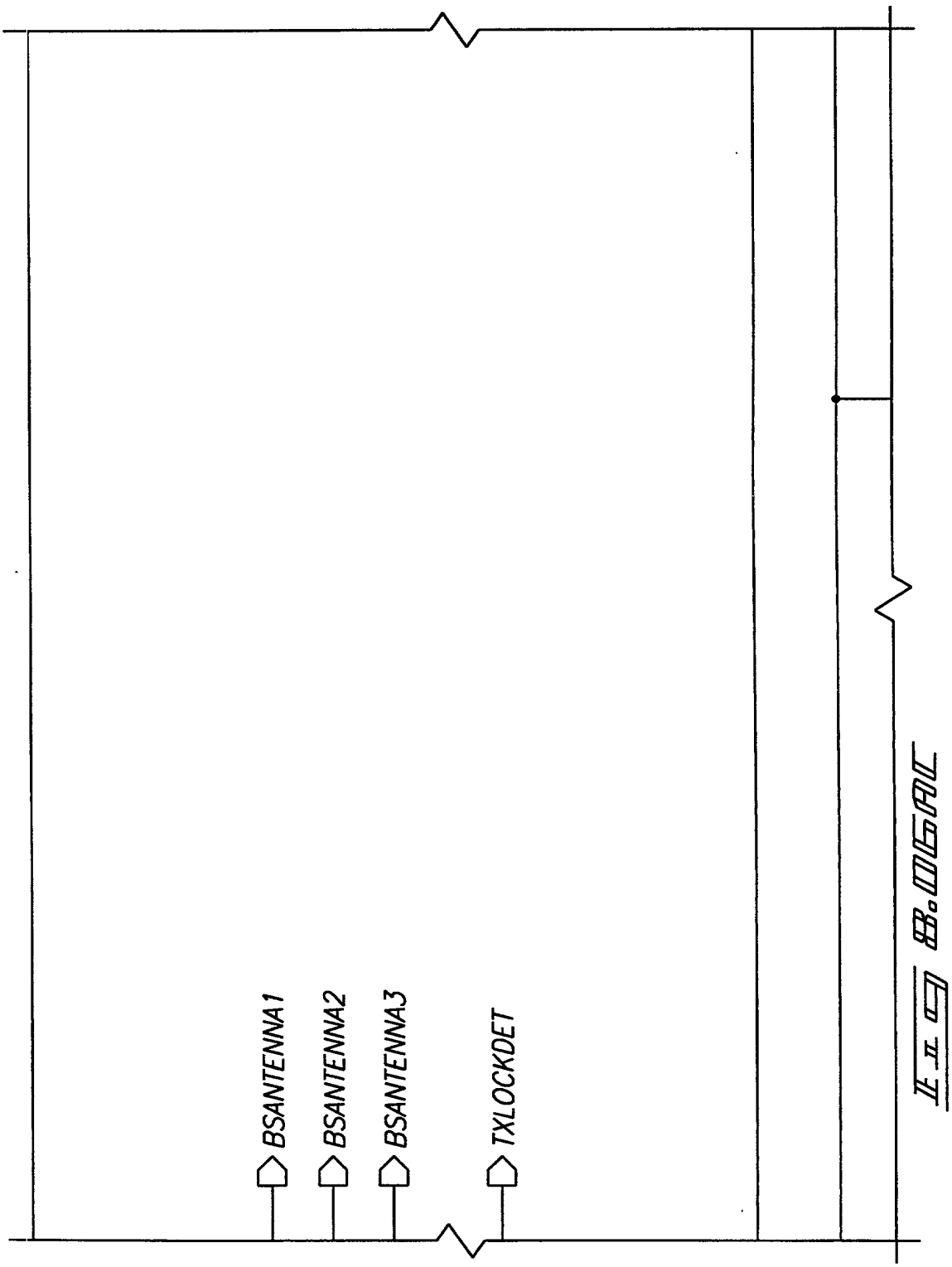

15u/1u
I149
BSCAT
nand3
net6357
TXMODE
12u/1u
RFENABLE
VREGD
1829/3273
VREGD
VREG

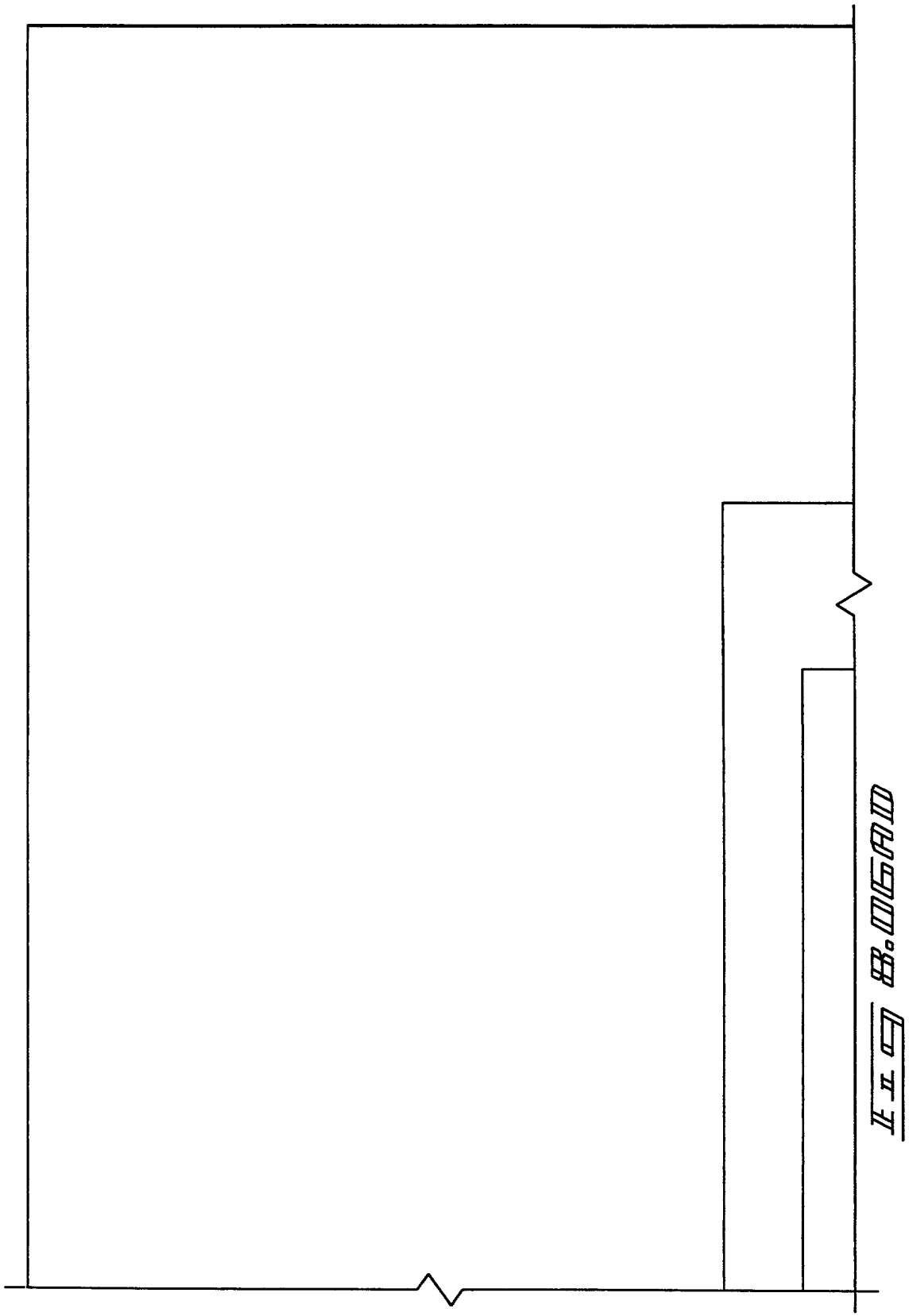
Fig 8.06AA


txmbs
ENABLE
BSDATA
I146
Modulated Backscatter Transmitter
BS1
BS2
BS3
VREGA
8.5u M154 VREGD "pch" ldr:1u wdr=8.5u
VREGD net7651
net11807
8.5u M155 VREGD "pch" ldr:1u wdr=8.5u
VREGD net6357
net11807
8u M156 "nch" ldr:1u wdr=8u
net11807 net6357
net11810
8u M152 "nch" ldr:1u wdr=8u
net11810 net7651
vss!
vss!
Fig 8.05AB



4017962950265

1832/3273



0562205 - 0562295

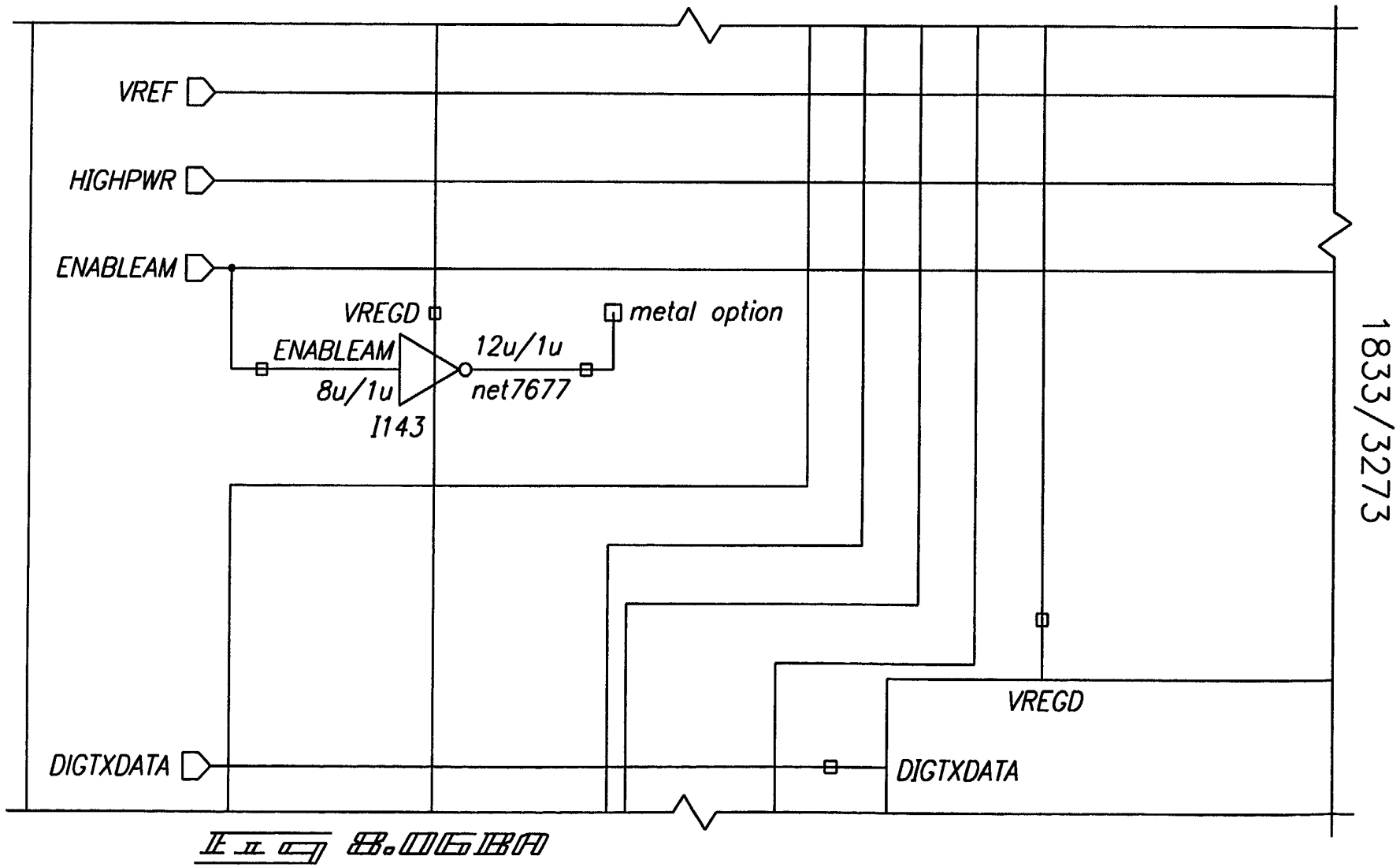
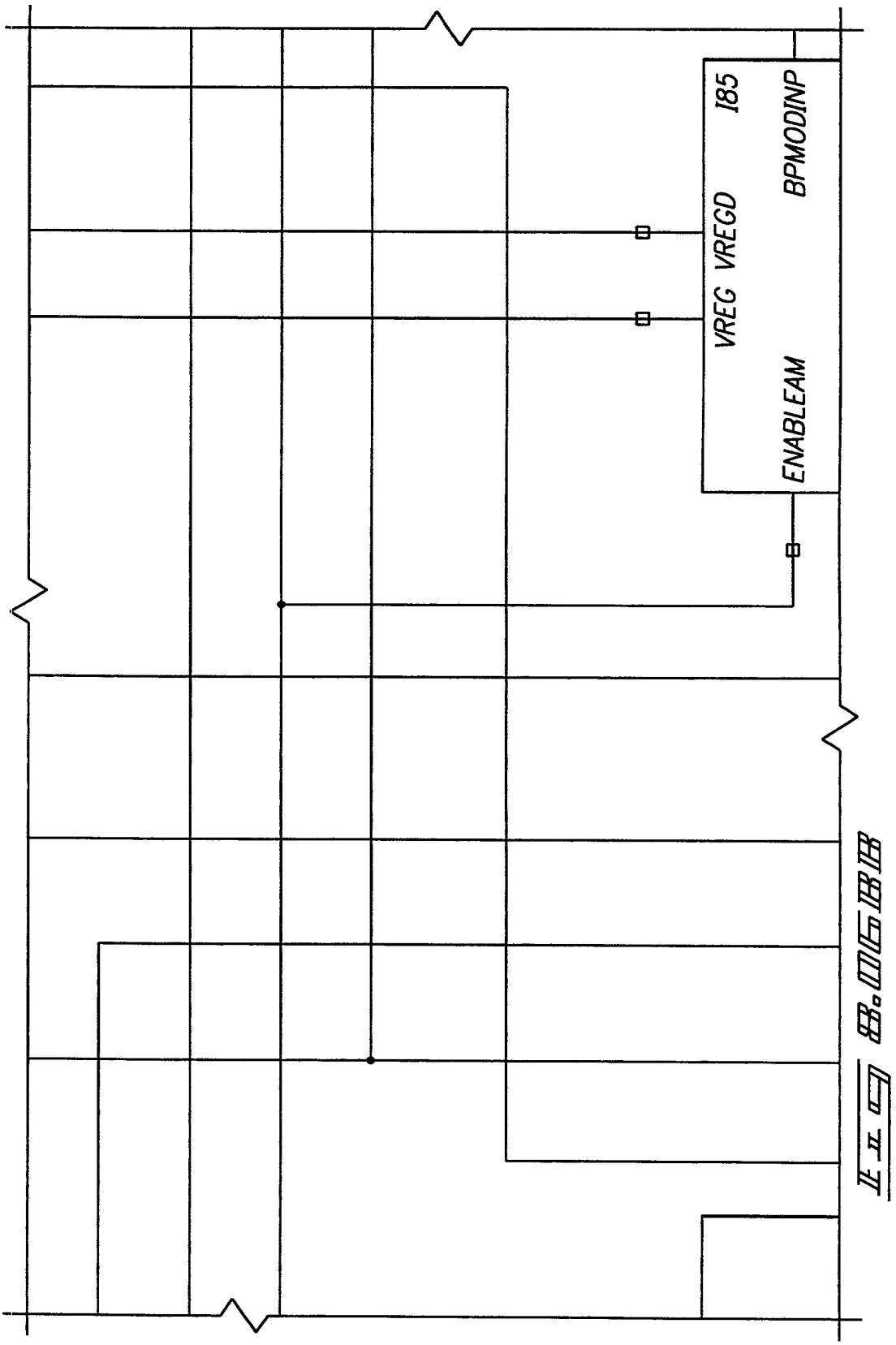
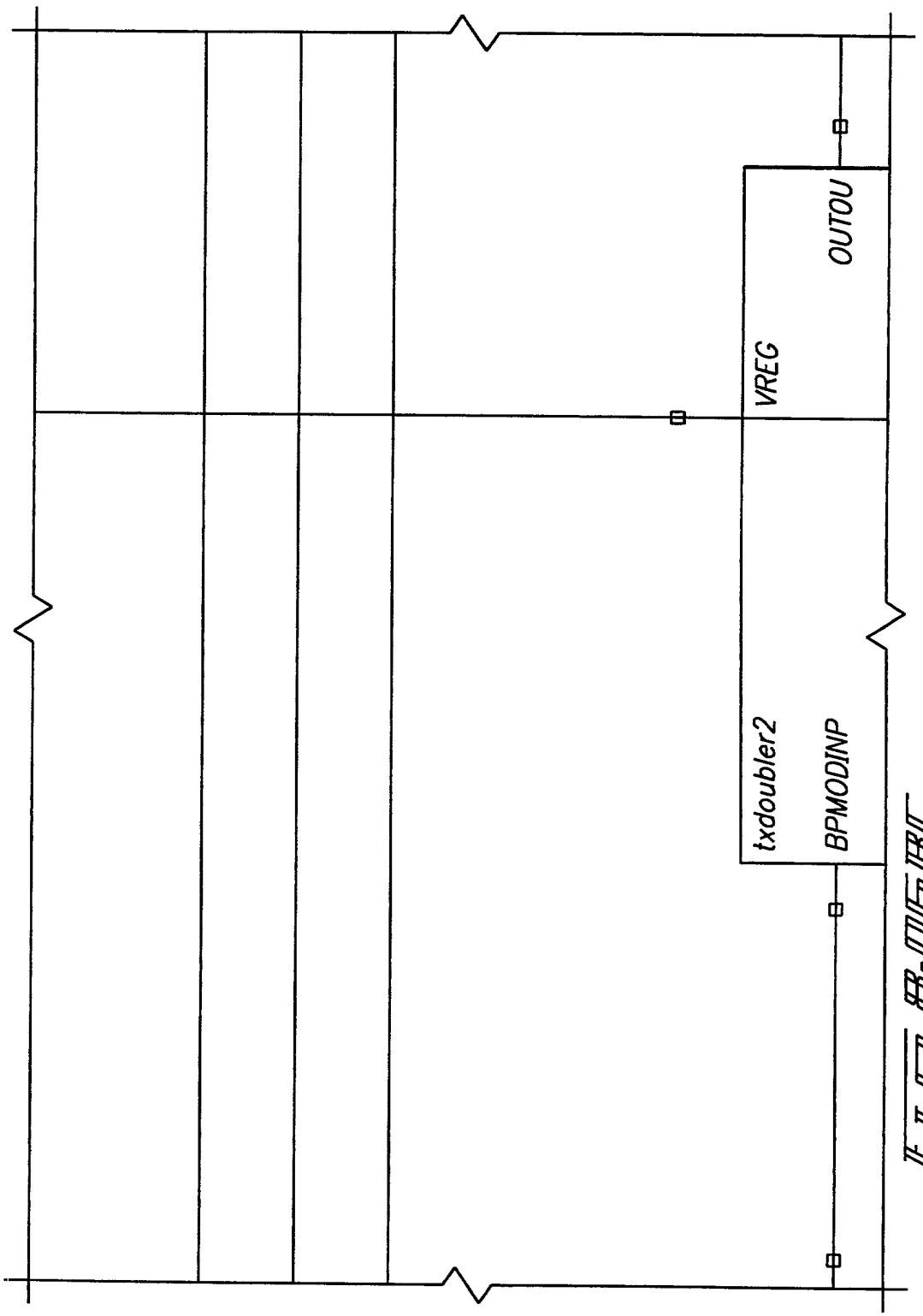

VREF
HIGHPWR
ENABLEAM
VREGD
metal option
ENABLEAM
12u/1u
8u/1u
net7677
I143
1833/3273
VREGD
DIGTXDATA
DIGTXDATA

Fig 8.0638A



Document - 05/14/05



US 6,922,560 B2

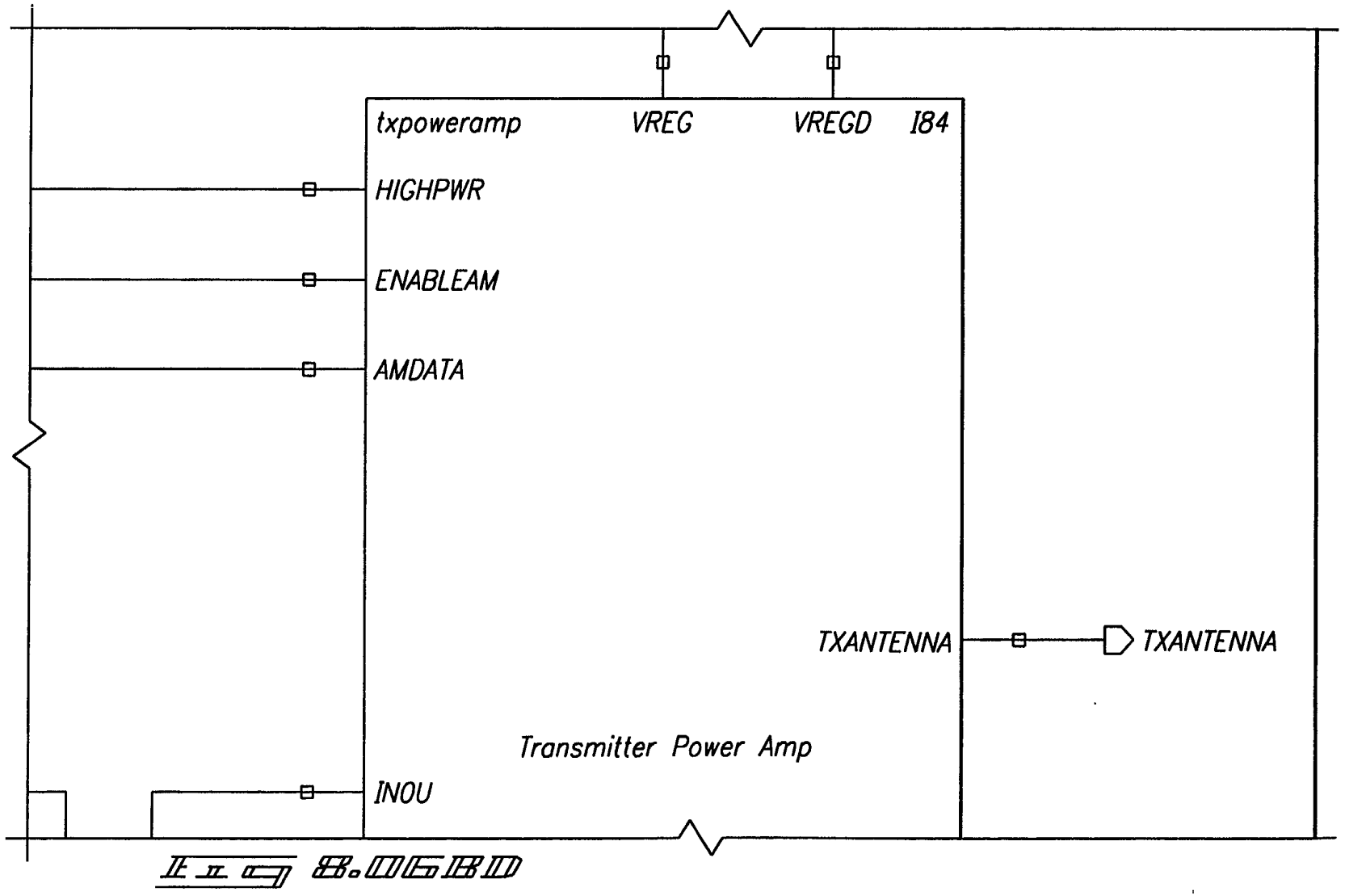
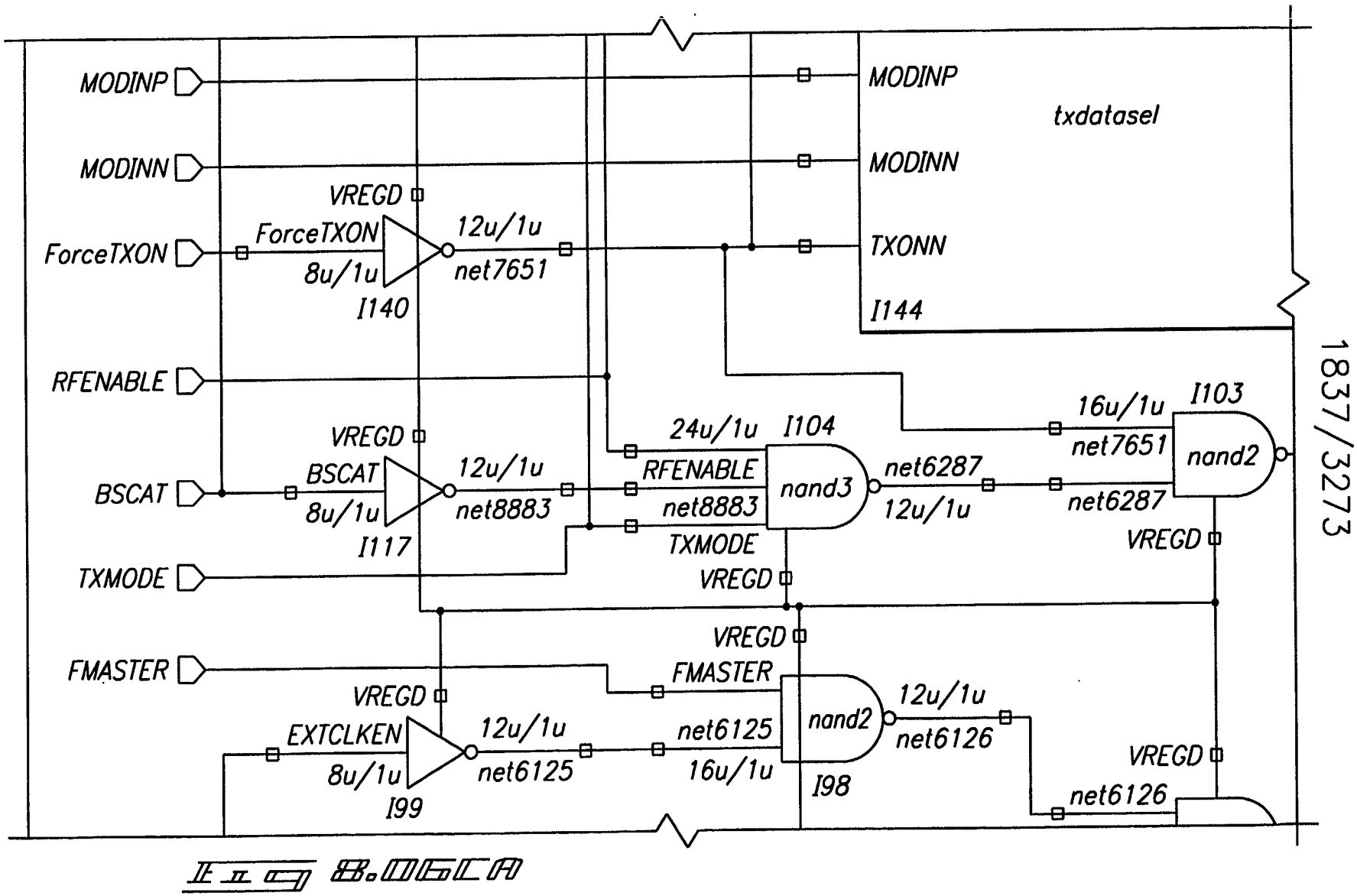
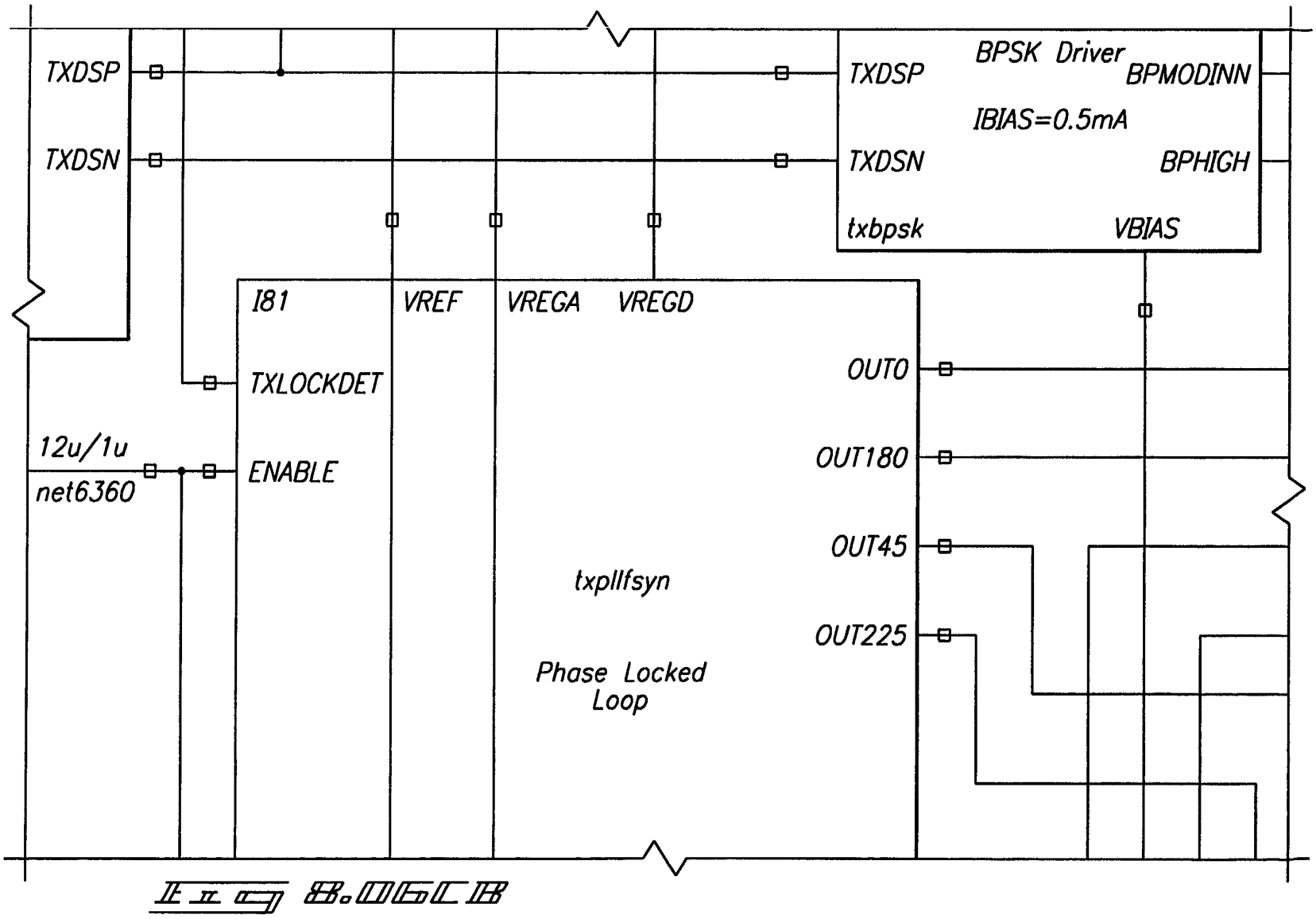


Fig 8.0638D

1836/3273


MODINP
MODINN
ForceTXON
RFENABLE
BSCAT
TXMODE
FMASTER
EXTCLKEN
VREGD
ForceTXON
8u/1u
I140
12u/1u
net7651
BSCAT
8u/1u
I117
12u/1u
net8883
EXTCLKEN
8u/1u
I99
12u/1u
net6125
MODINP
MODINN
TXONN
I144
txdatasel
24u/1u
I104
RFENABLE
net8883
TXMODE
VREGD
nand3
net6287
12u/1u
16u/1u
I103
net7651
nand2
net6287
VREGD
FMASTER
net6125
16u/1u
nand2
I98
12u/1u
net6126
VREGD
net6126
1837/3273

T0TT90" E90Z2360



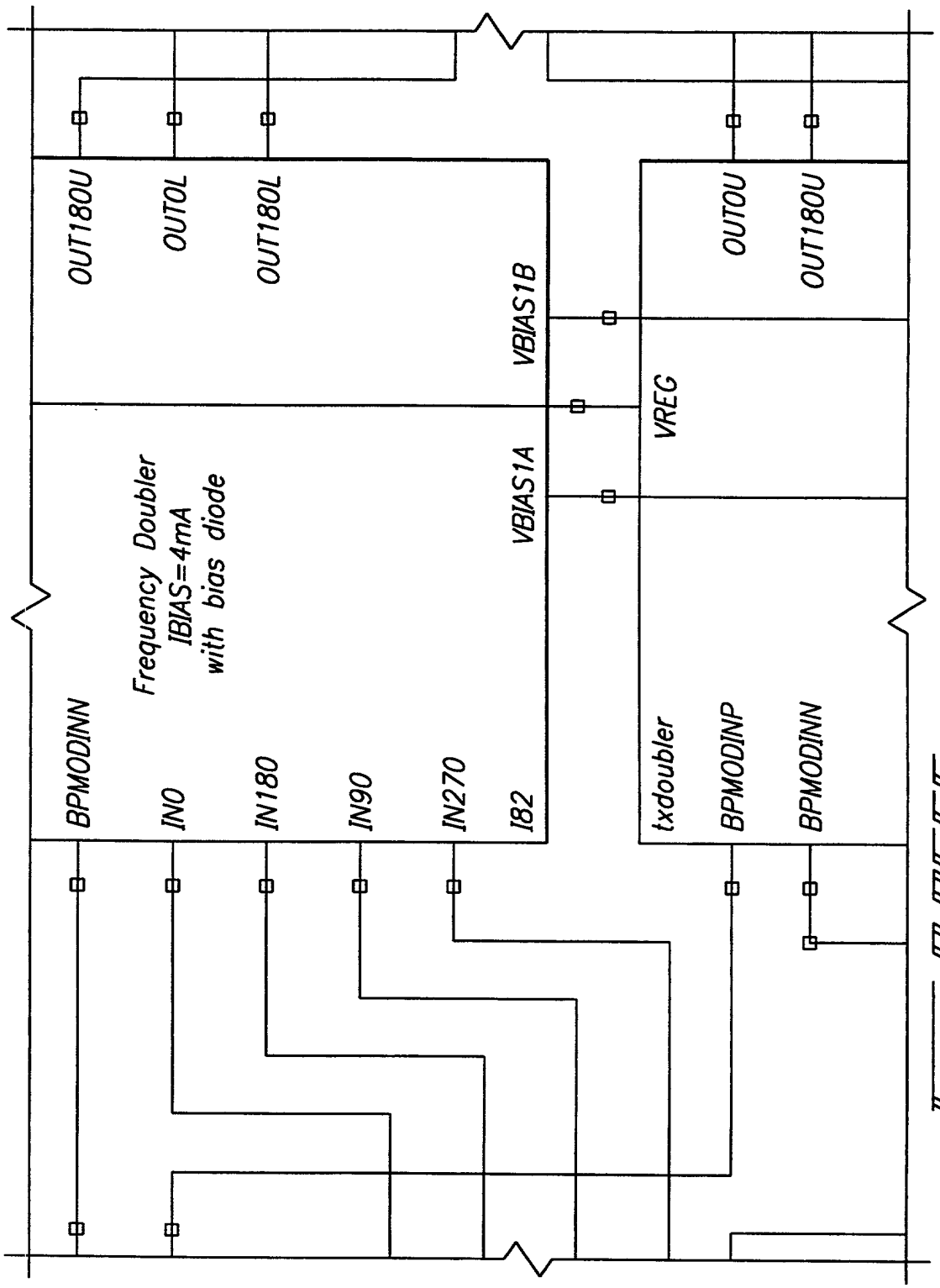

OUT180U
OUT0L
OUT180L
VBIAS1B
OUT0U
OUT180U
Frequency Doubler
IBIAS=4mA
with bias diode
VBIAS1A
VREG
BPMODINN
IN0
IN180
IN90
IN270
I82
txdoubler
BPMODINP
BPMODINN

Fig 8.00E+31

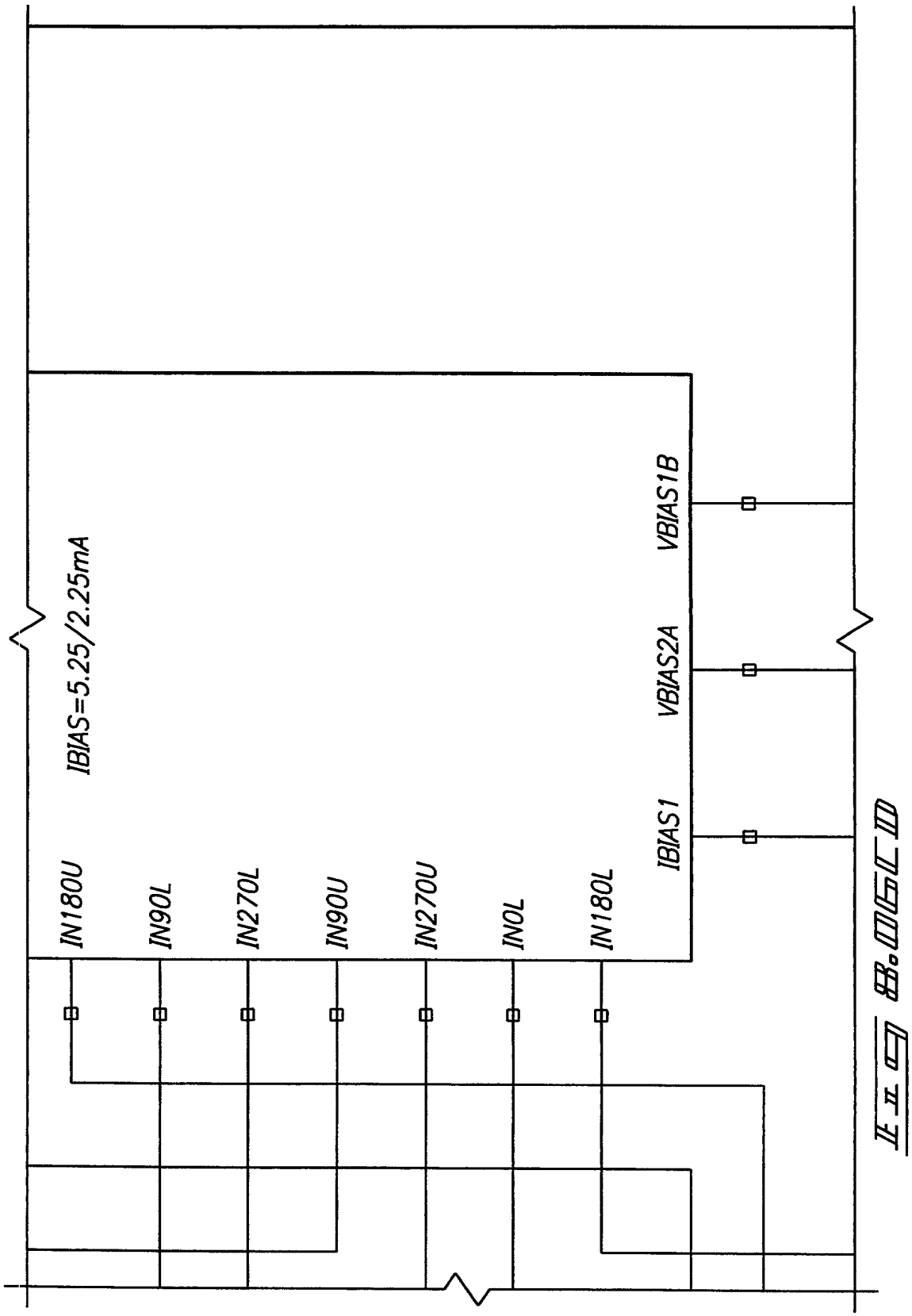


Fig 88.0SCID

PCT/US01/22840

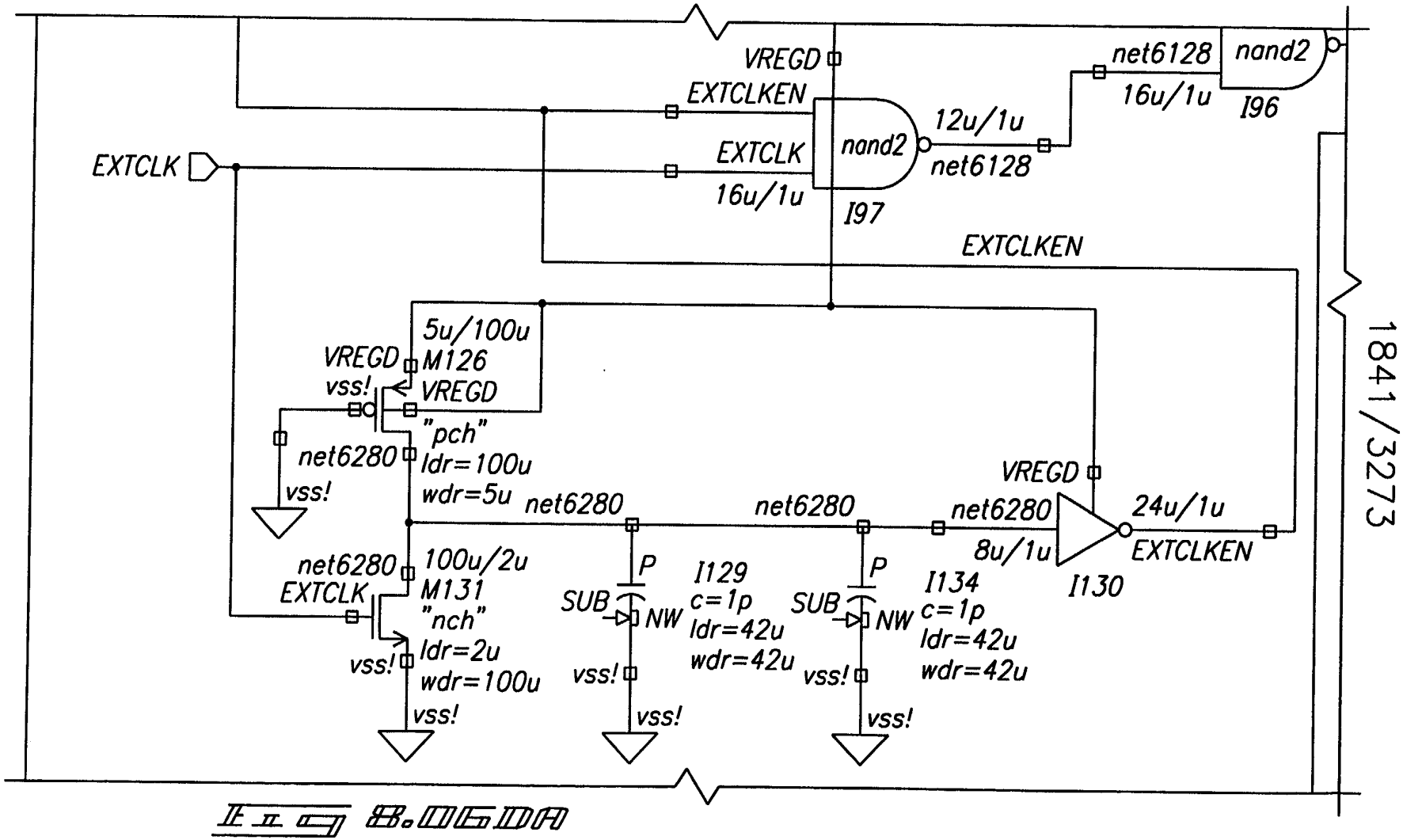
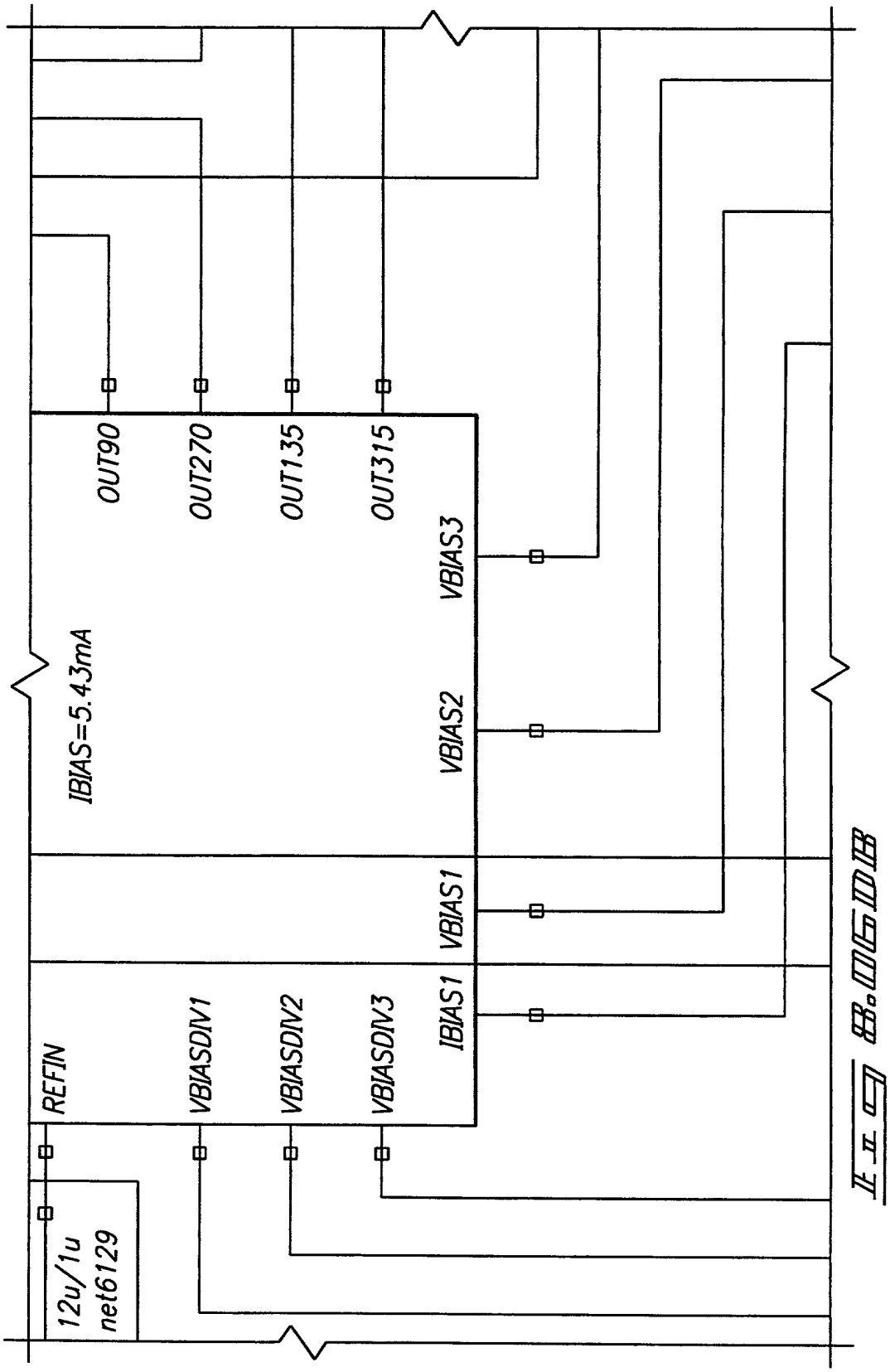

VREGD
EXTCLKEN
EXTCLK
nand2
12u/1u
net6128
16u/1u
I97
net6128
nand2
16u/1u
I96
EXTCLK
EXTCLKEN
5u/100u
VREGD
M126
vss!
VREGD
"pch"
net6280
ldr=100u
wdr=5u
vss!
net6280
net6280
net6280
VREGD
24u/1u
8u/1u
EXTCLKEN
I130
net6280
100u/2u
EXTCLK
M131
"nch"
ldr=2u
wdr=100u
vss!
vss!
P
SUB
NW
I129
c=1p
ldr=42u
wdr=42u
vss!
vss!
P
SUB
NW
I134
c=1p
ldr=42u
wdr=42u
vss!
vss!
1841/3273

Fig 8.0604A



Patent application publication

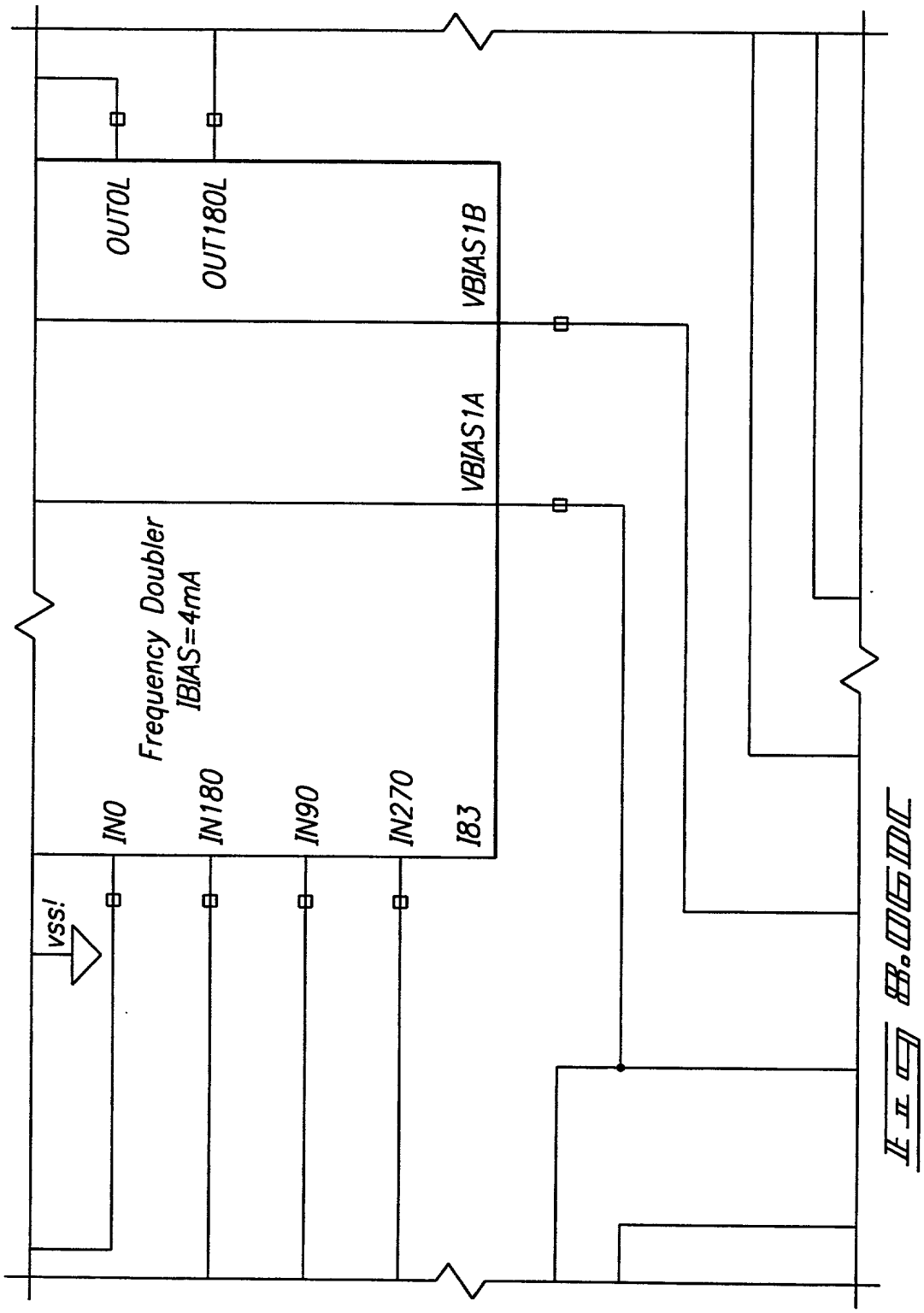
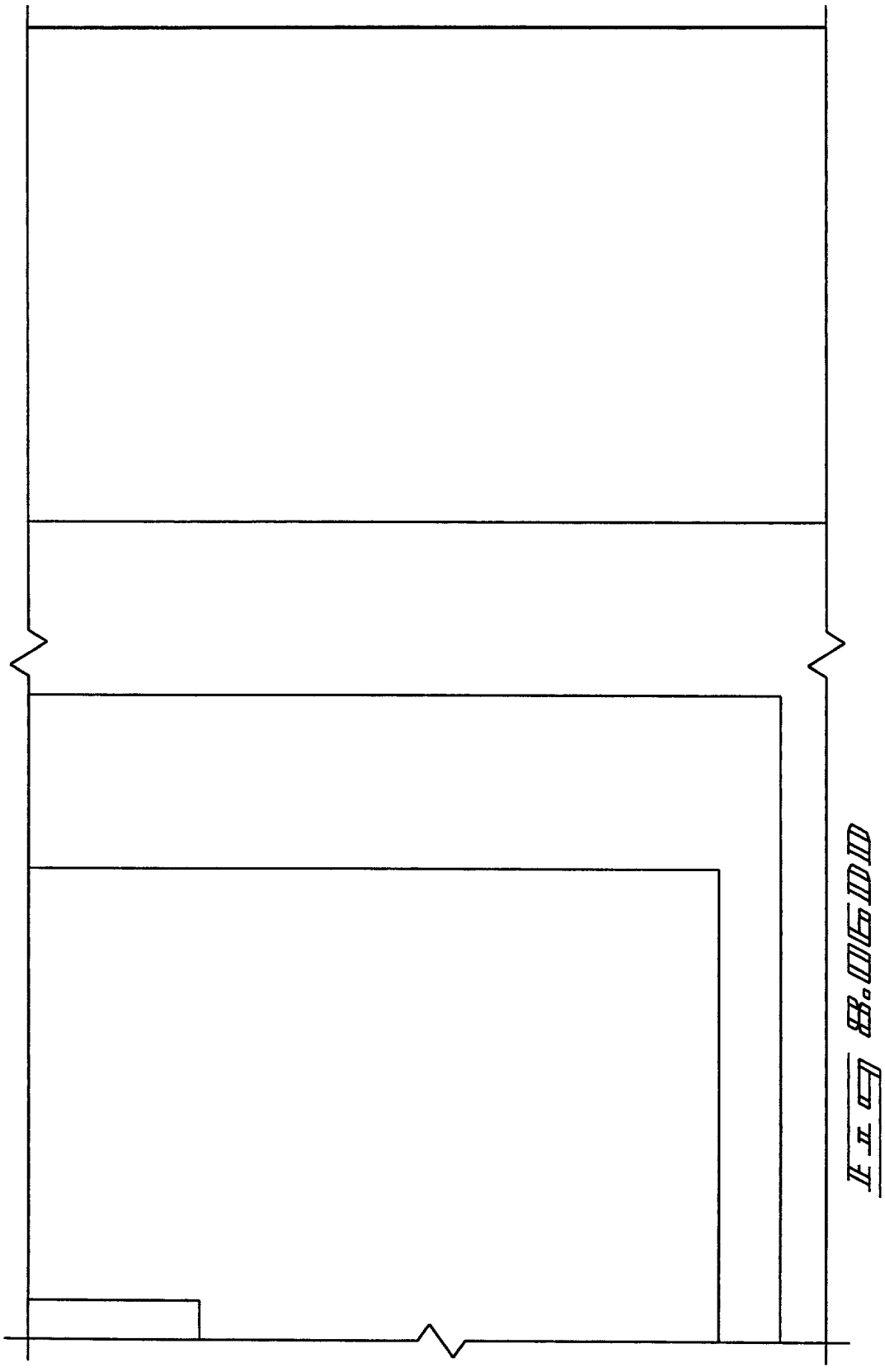

OUT0L
OUT180L
VBIAS1B
VBIAS1A
Frequency Doubler
IBIAS=4mA
IN0
IN180
IN90
IN270
I83
vss!

Fig 88.0050

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geoportal.gov.pl

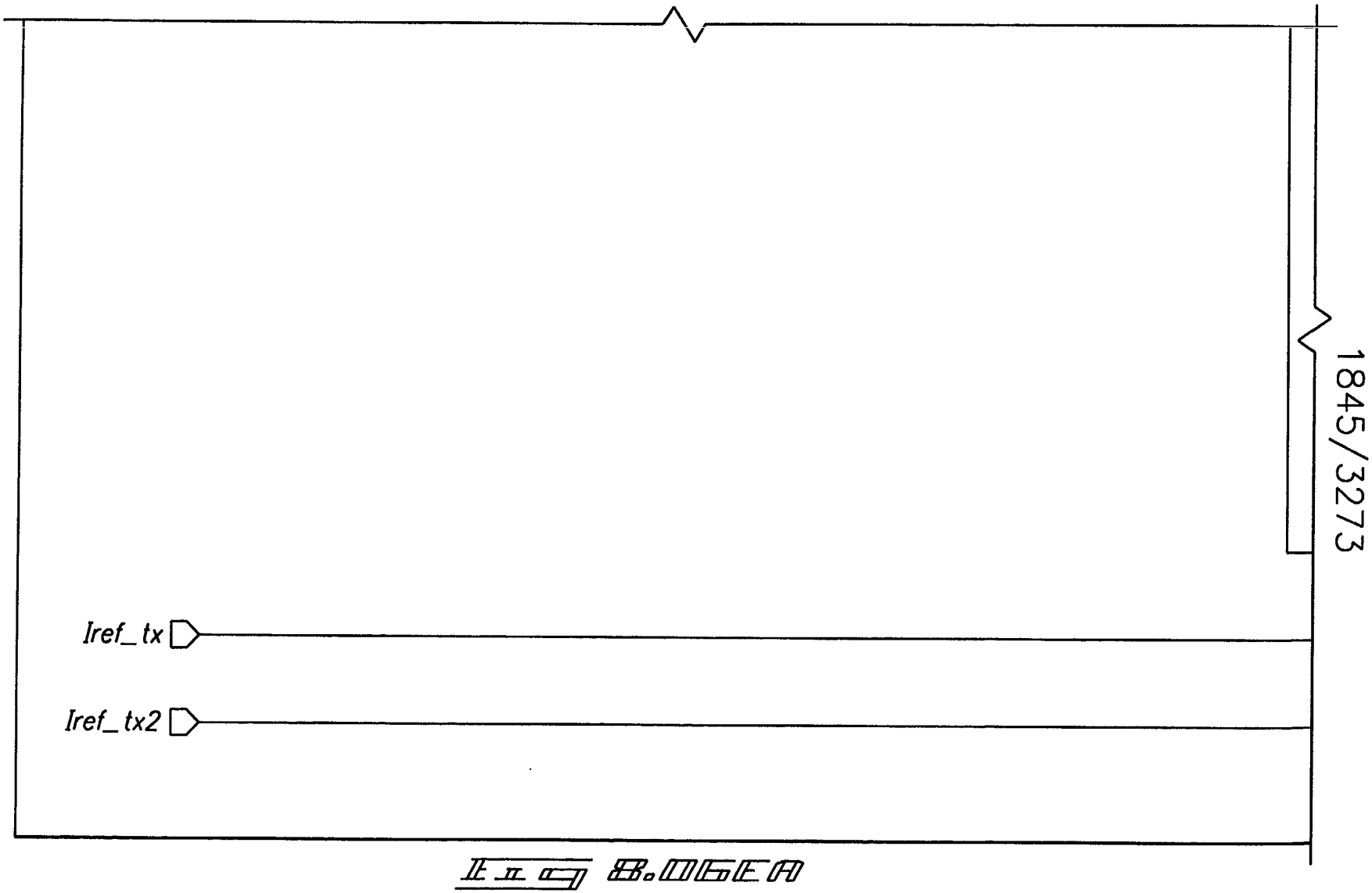


Fig 8.06EA

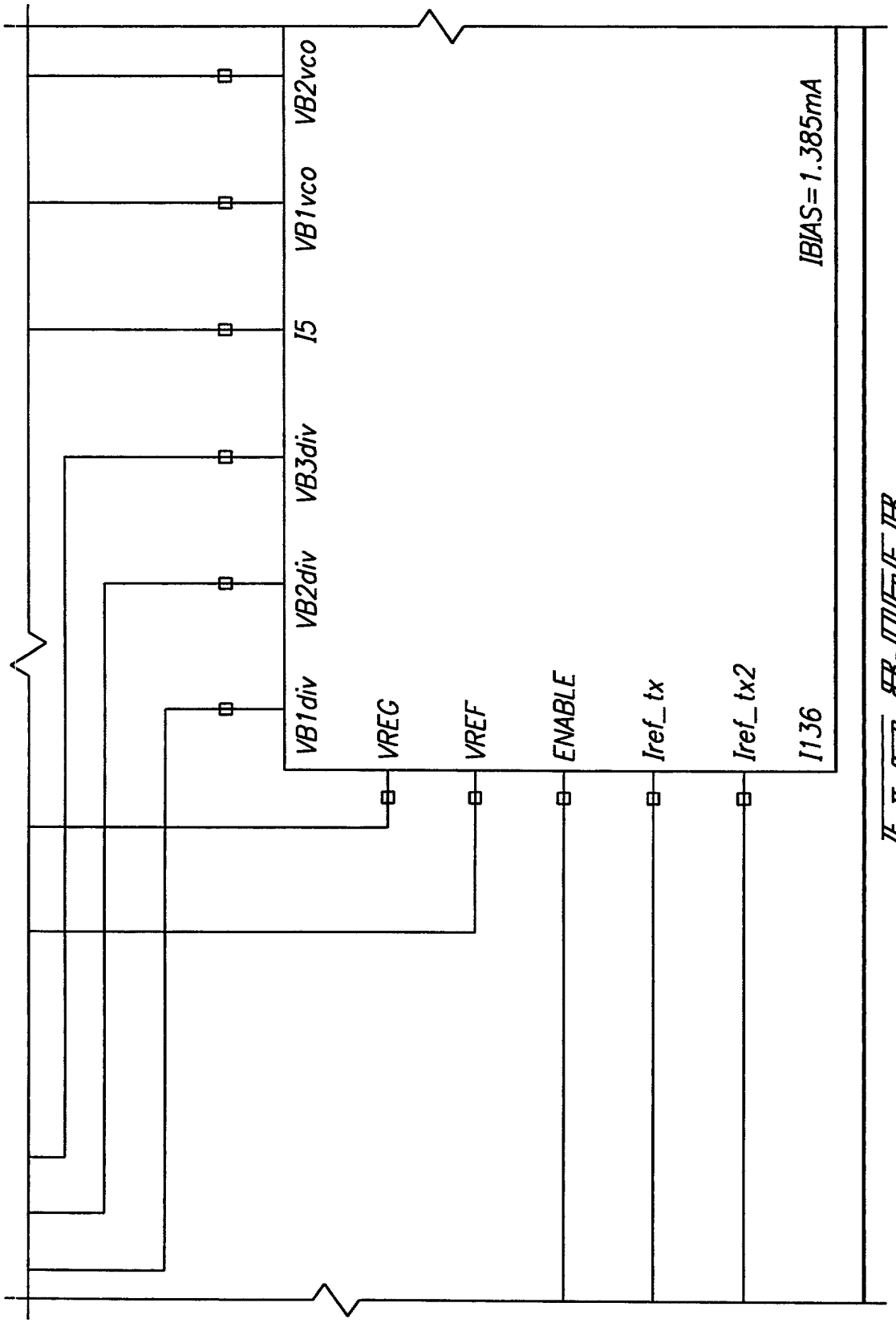
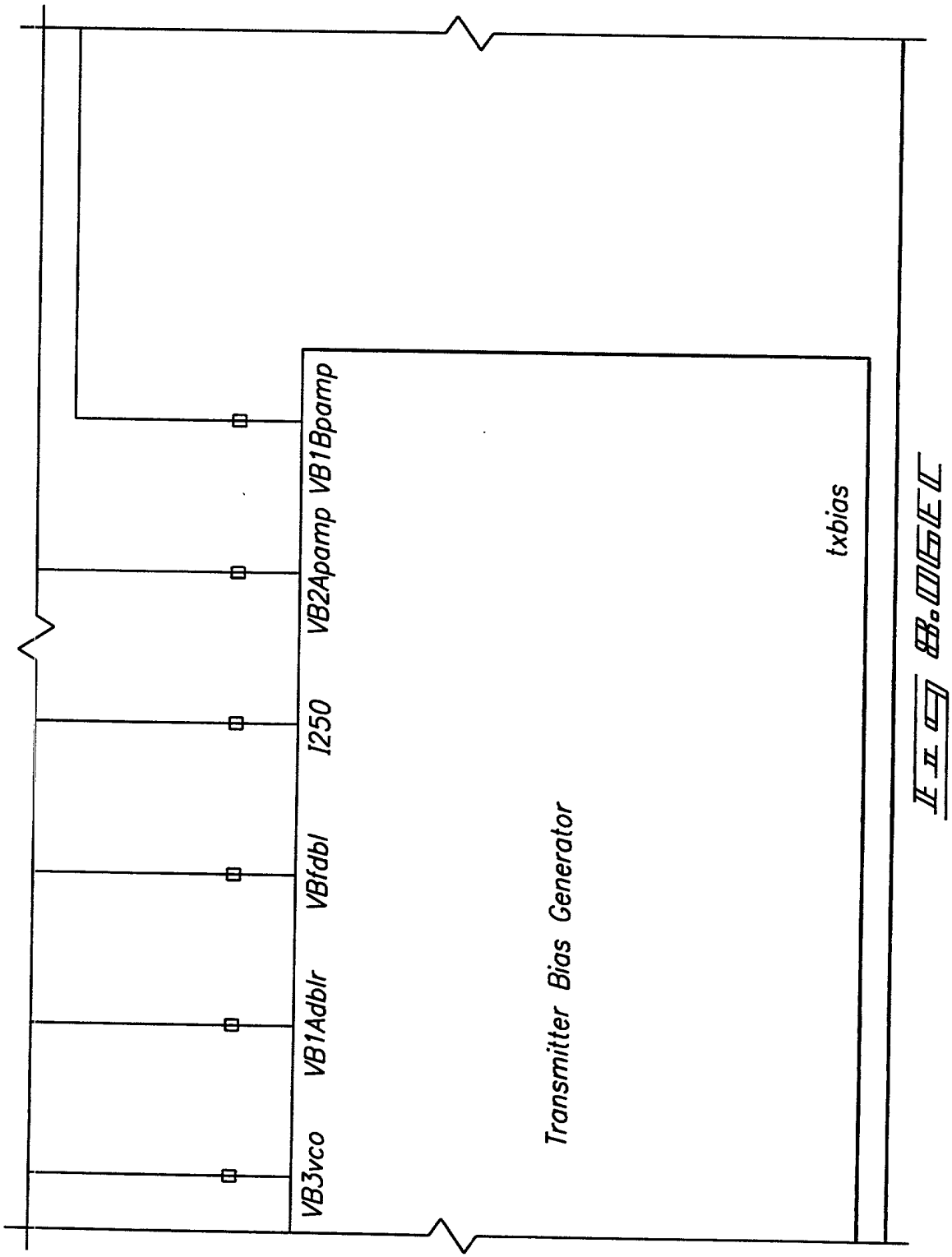
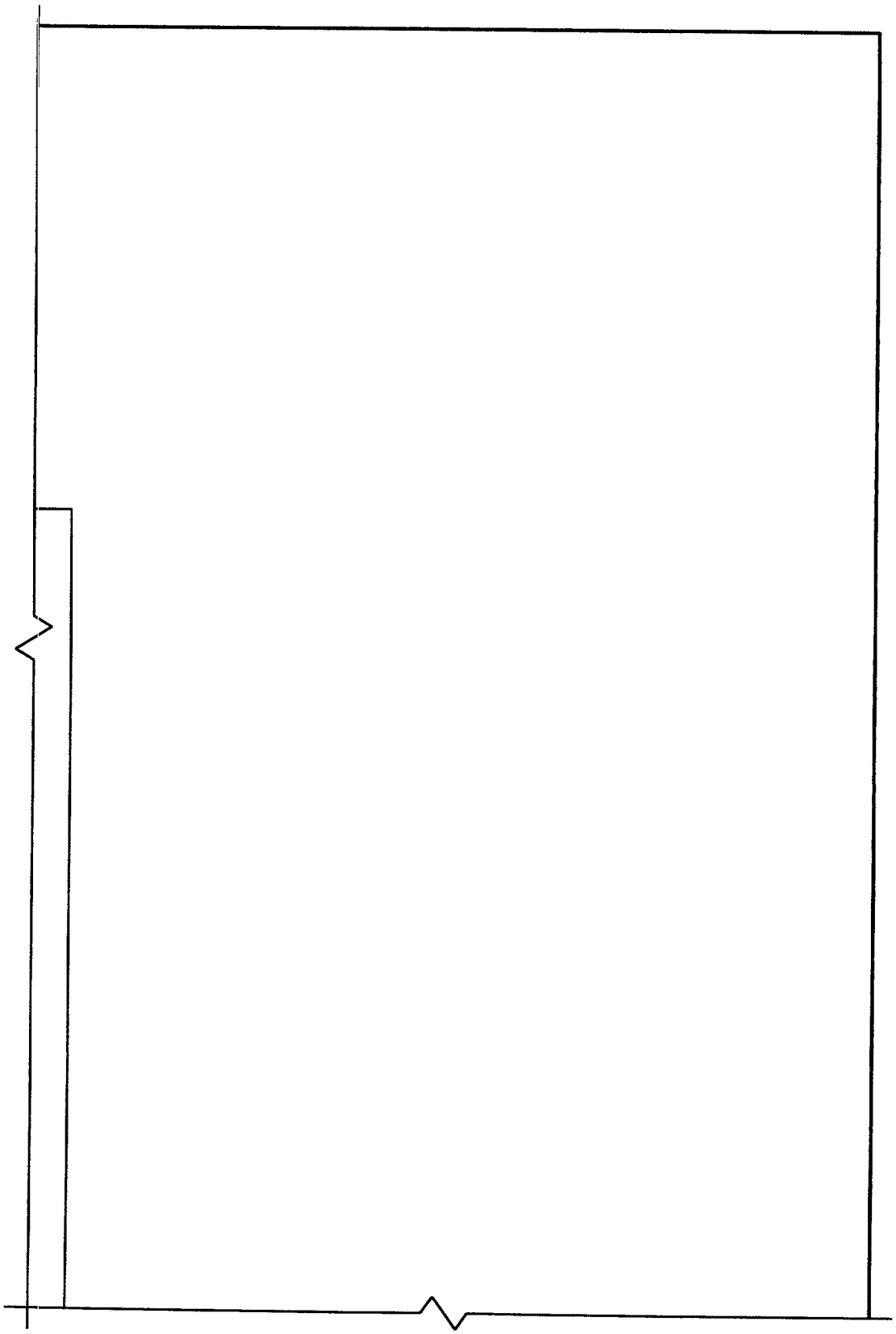


Fig. 88. Module IB

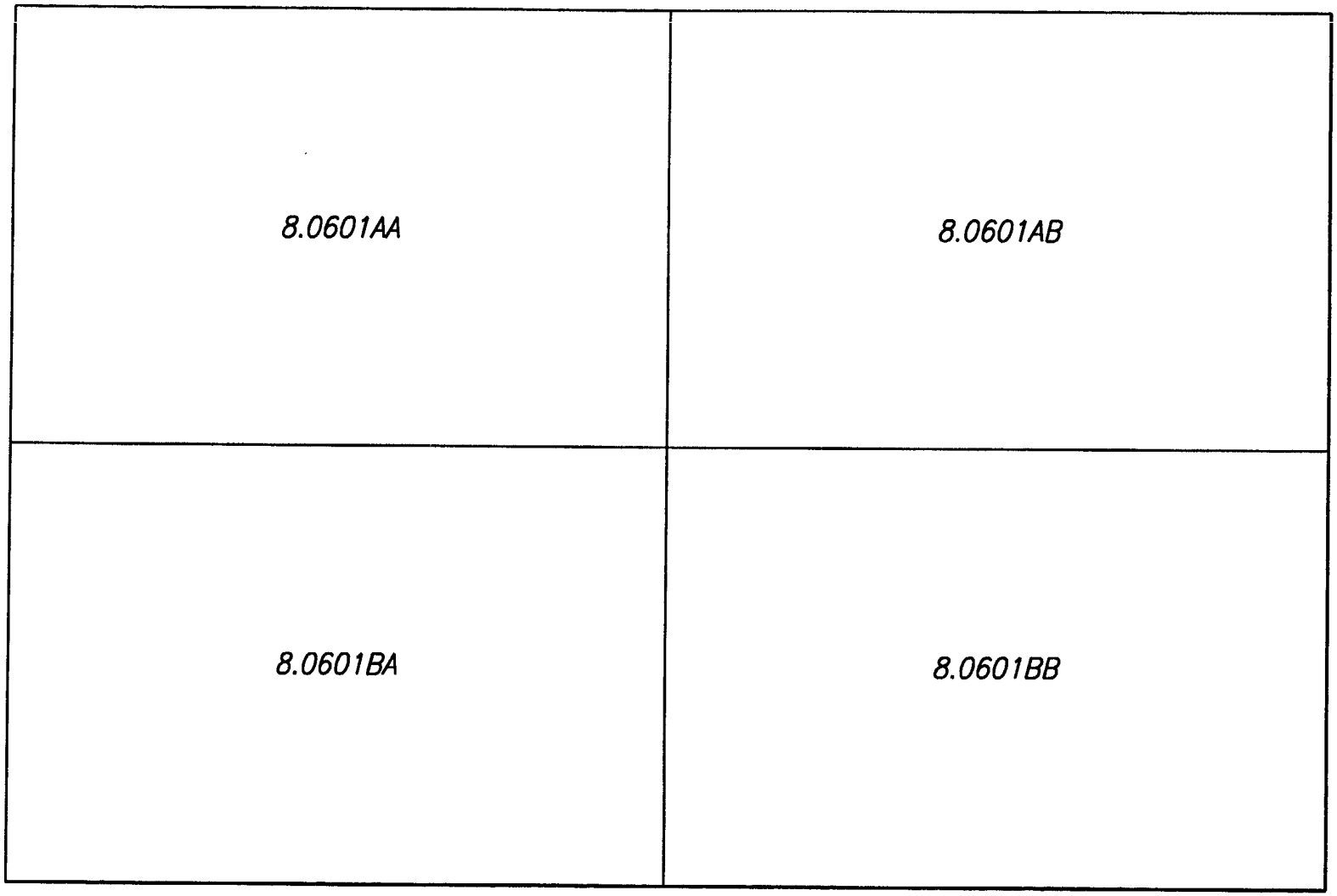


0.0.1.1.5.0.2.5.0.0.2.2.5.5.0.2

1848/3273



TOTT90*E90128860



Lig 8.0601

1849/3273

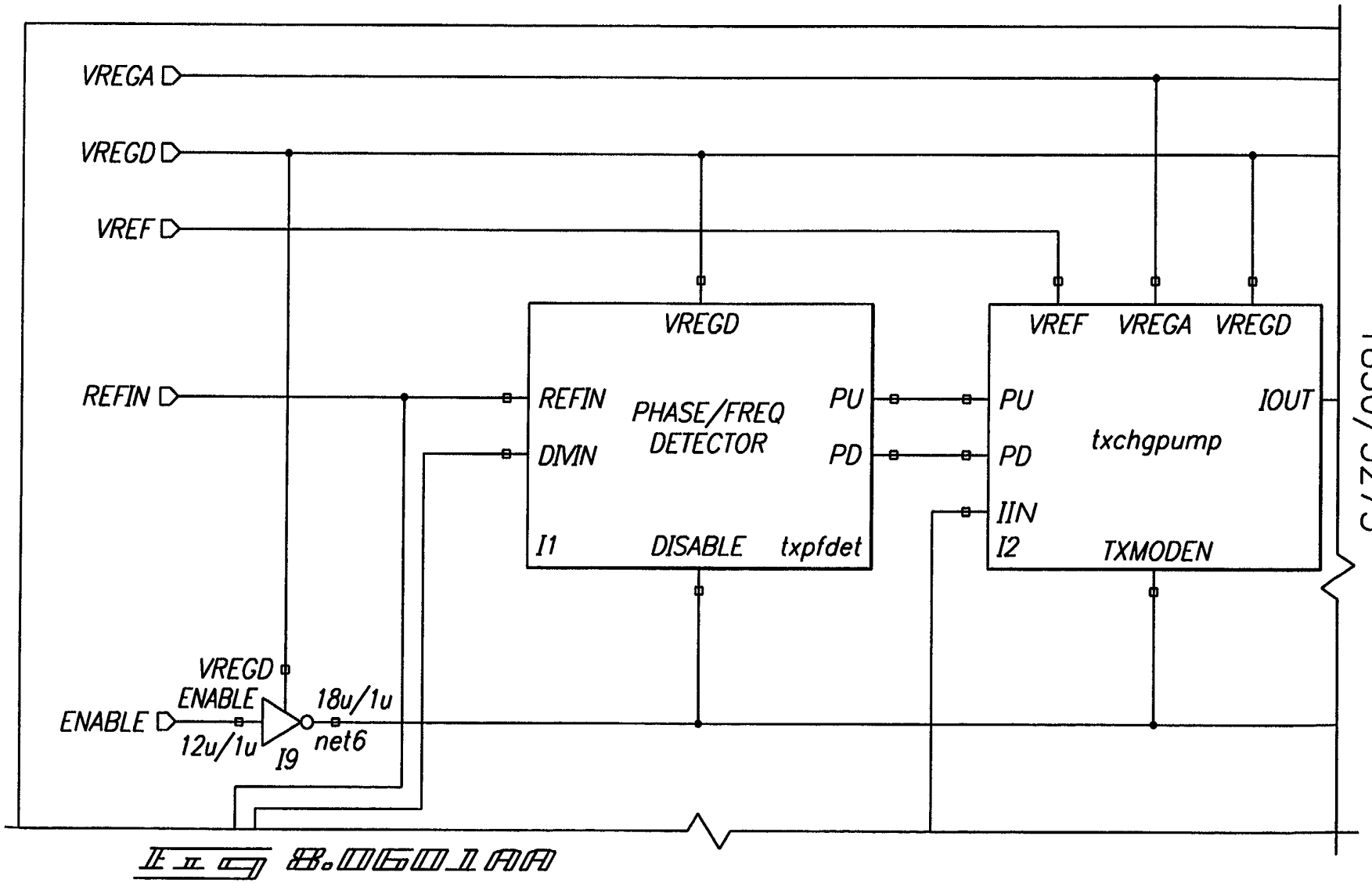

VREGA
VREGD
VREF
REFIN
VREGD
REFIN
DIVIN
PHASE/FREQ
DETECTOR
PU
PD
I1
DISABLE
txpfdet
VREF
VREGA
VREGD
PU
PD
IIN
I2
txchgpump
IOUT
TXMODEN
1850/3273
VREGD
ENABLE
ENABLE
12u/1u
I9
18u/1u
net6

Fig 8.0601AA

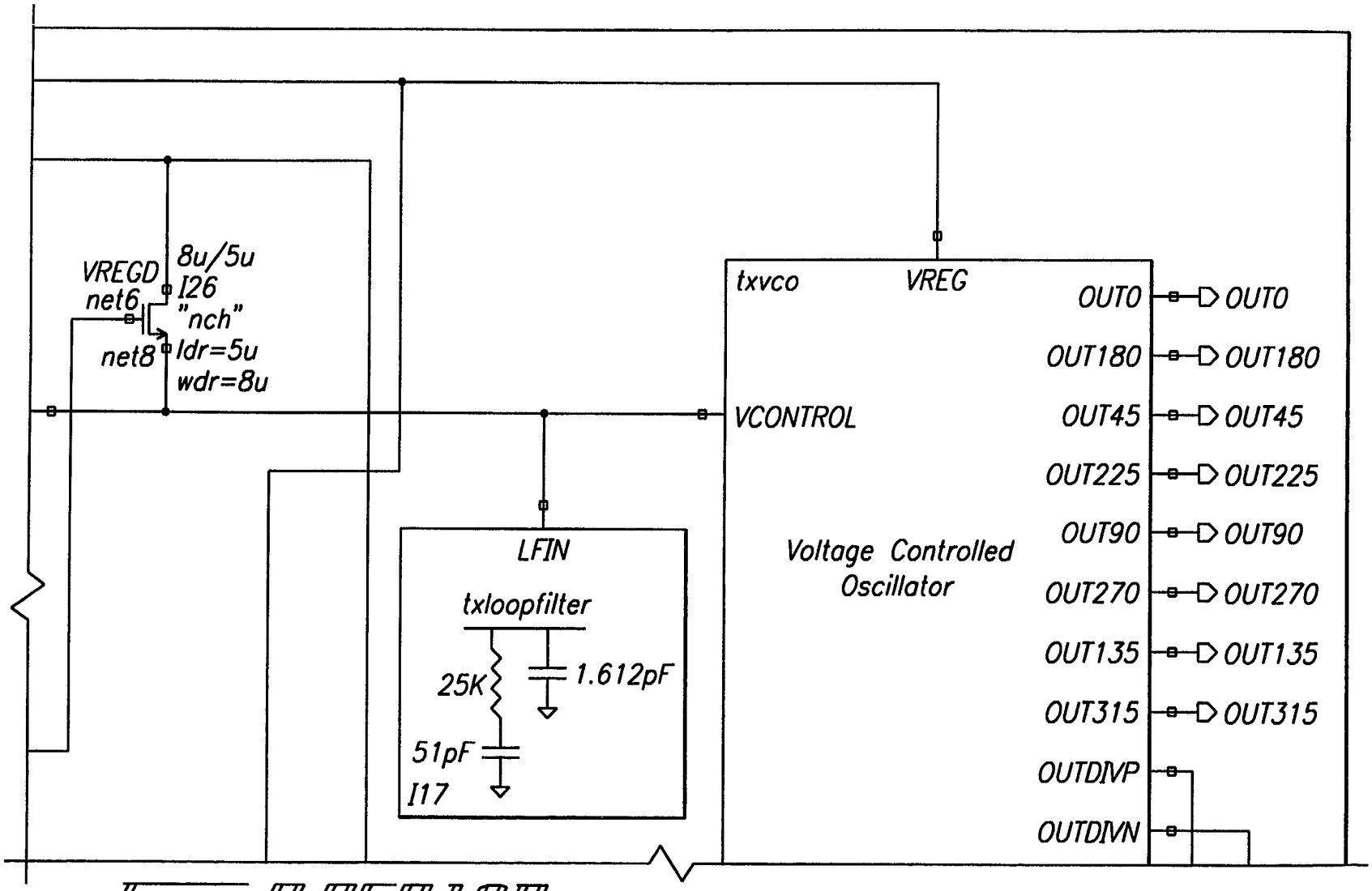

VREGD
net6
net8
8u/5u
I26
"nch"
ldr=5u
wdr=8u
txvco
VREG
VCONTROL
Voltage Controlled
Oscillator
OUT0
OUT180
OUT45
OUT225
OUT90
OUT270
OUT135
OUT315
OUTDIVP
OUTDIVN
LFIN
txloopfilter
25K
1.612pF
51pF
I17

Fig 8.0601AB

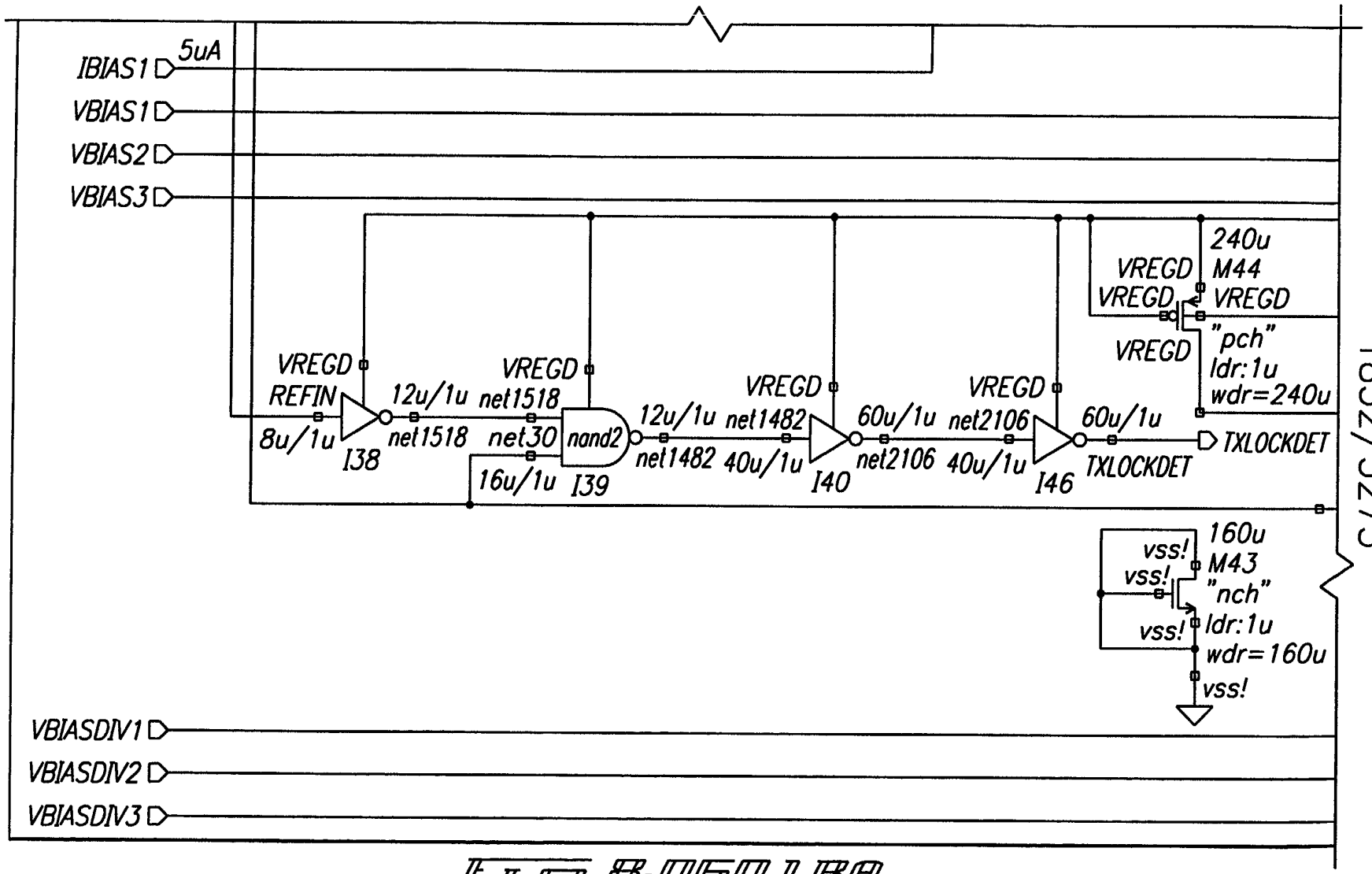

IBIAS1
5uA
VBIAS1
VBIAS2
VBIAS3
VREGD
REFIN
8u/1u
I38
12u/1u
net1518
net1518
net30
16u/1u
I39
nand2
12u/1u
net1482
net1482
40u/1u
I40
60u/1u
net2106
net2106
40u/1u
I46
60u/1u
TXLOCKDET
TXLOCKDET
240u
M44
"pch"
ldr:1u
wdr=240u
160u
M43
"nch"
ldr:1u
wdr=160u
vss!
VBIASDIV1
VBIASDIV2
VBIASDIV3
1852/3273

Fig 8.0601BA

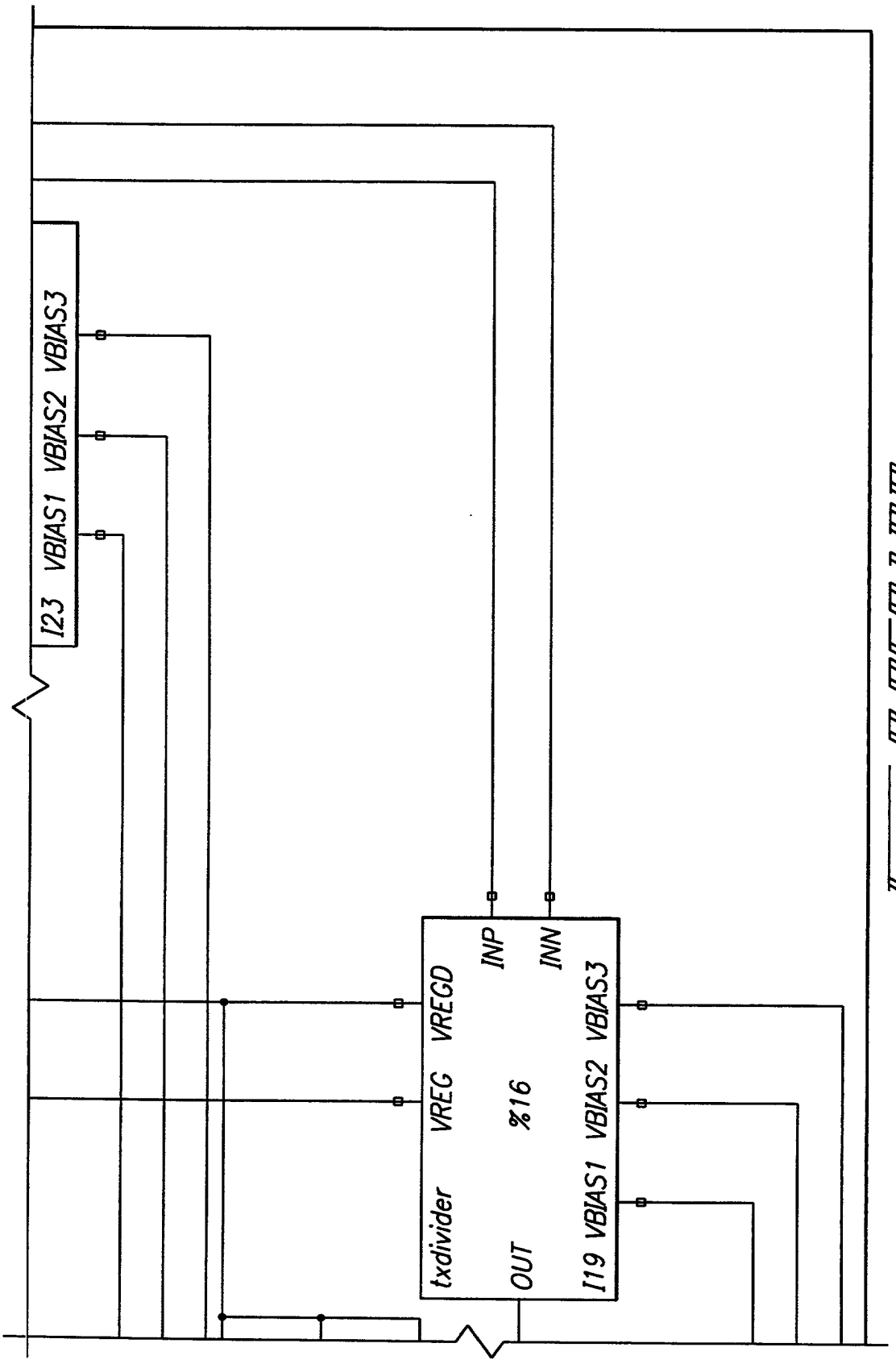


Fig 8.0500 IBIB

T0TT90*E90328G0

8.060101AA	8.060101AB	8.060101AC
8.060101BA	8.060101BB	8.060101BC
8.060101CA	8.060101CB	8.060101CC

Fig 8.060101

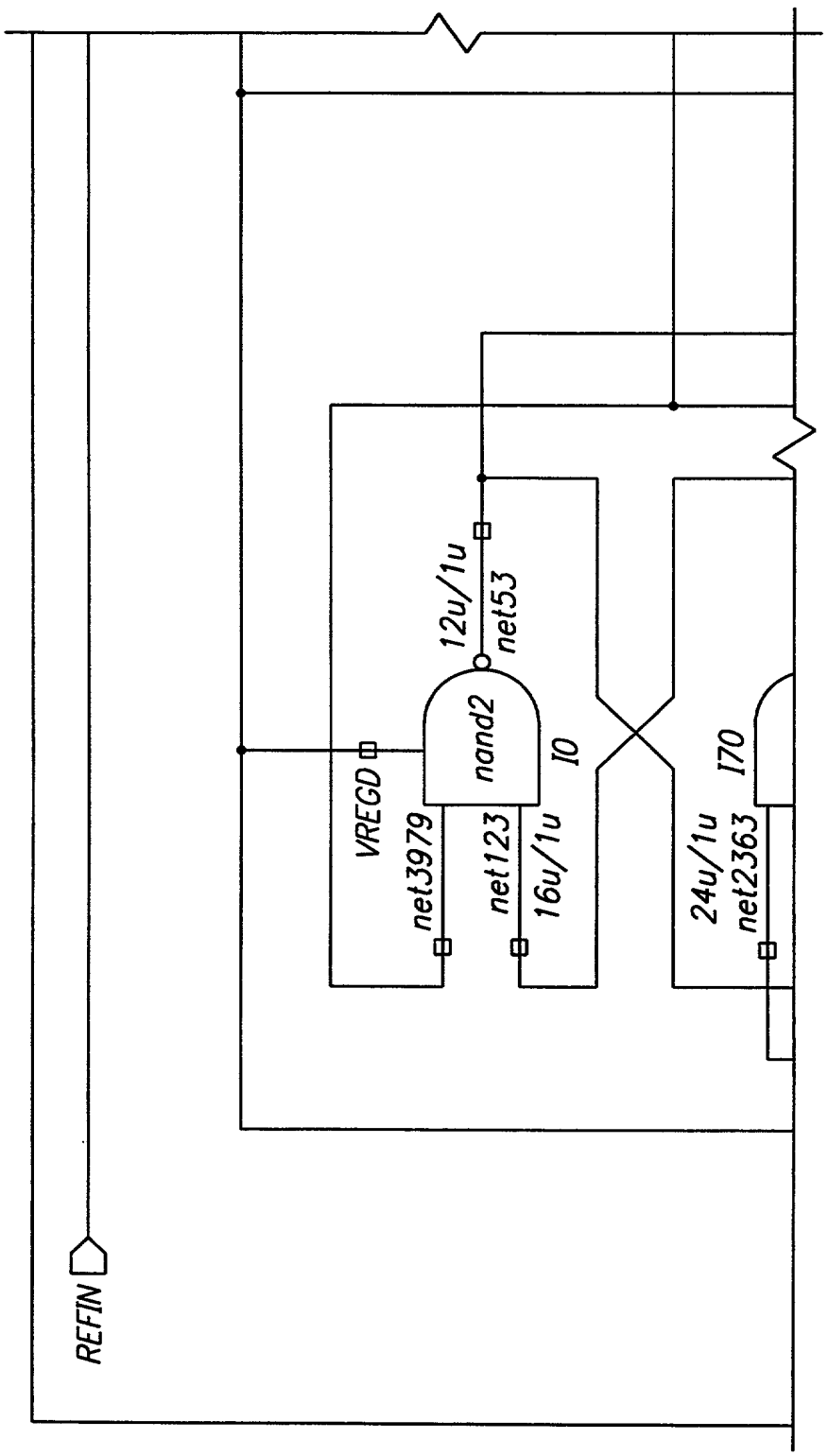


Fig 88.0050_1001_1AA

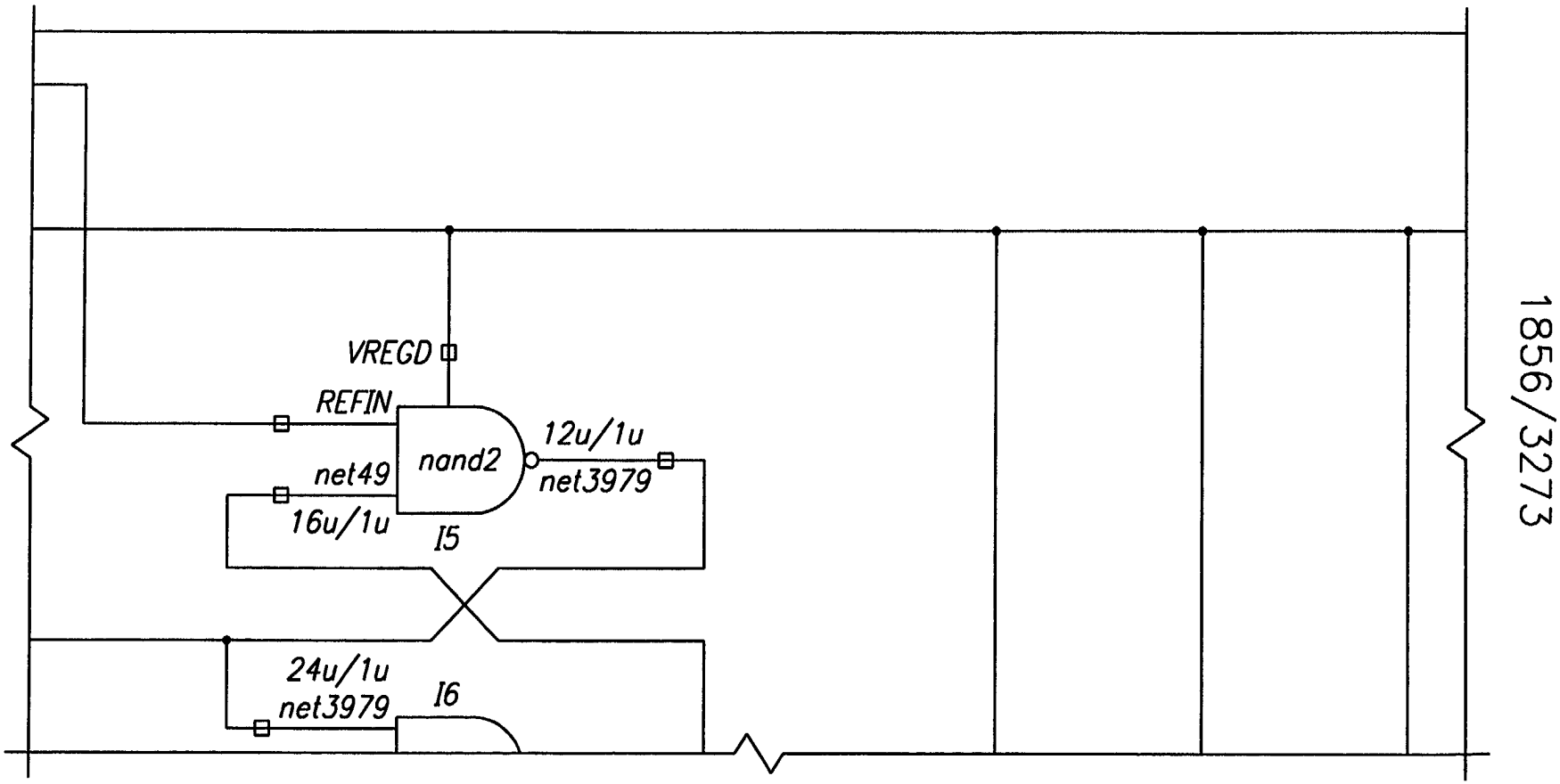
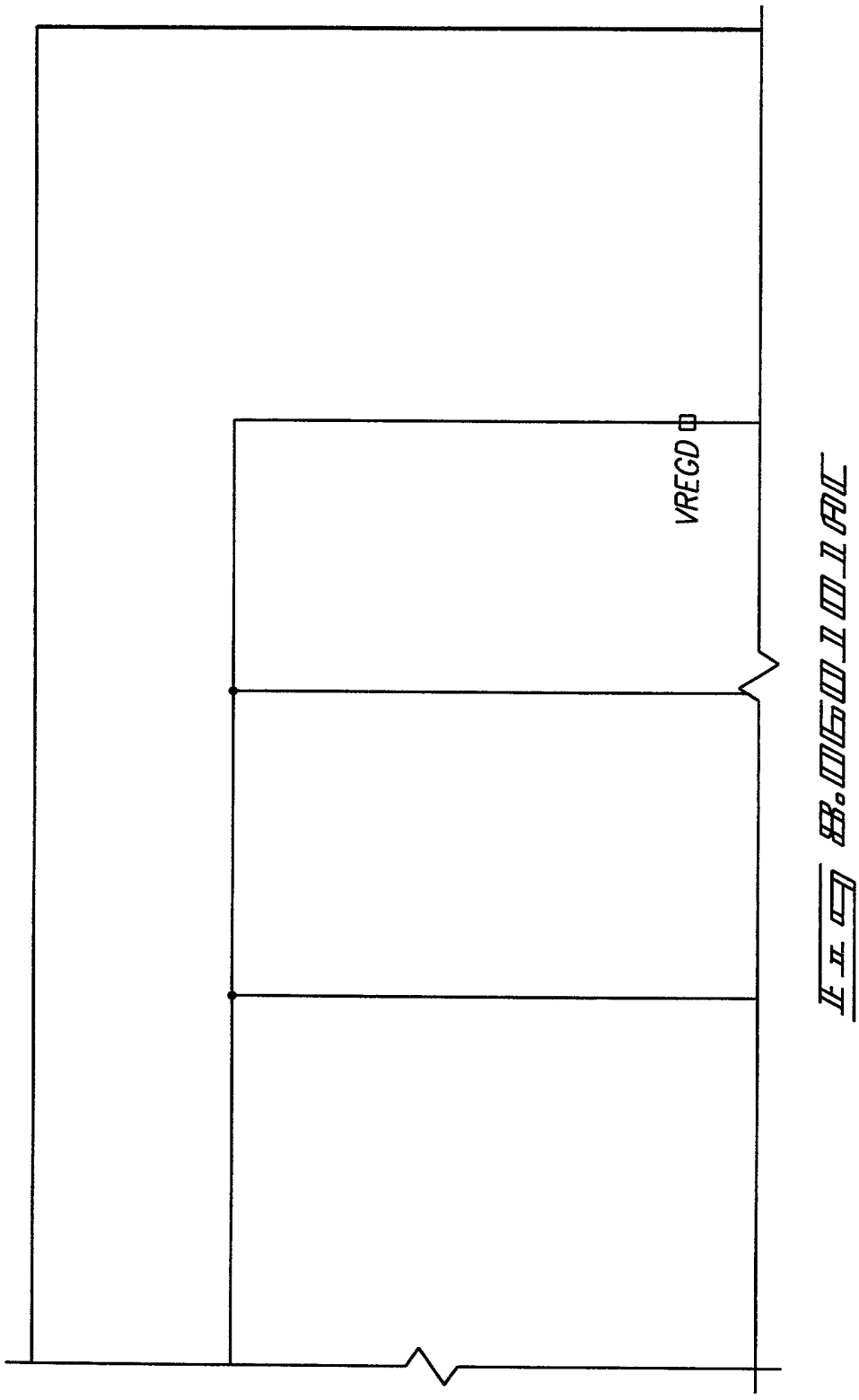
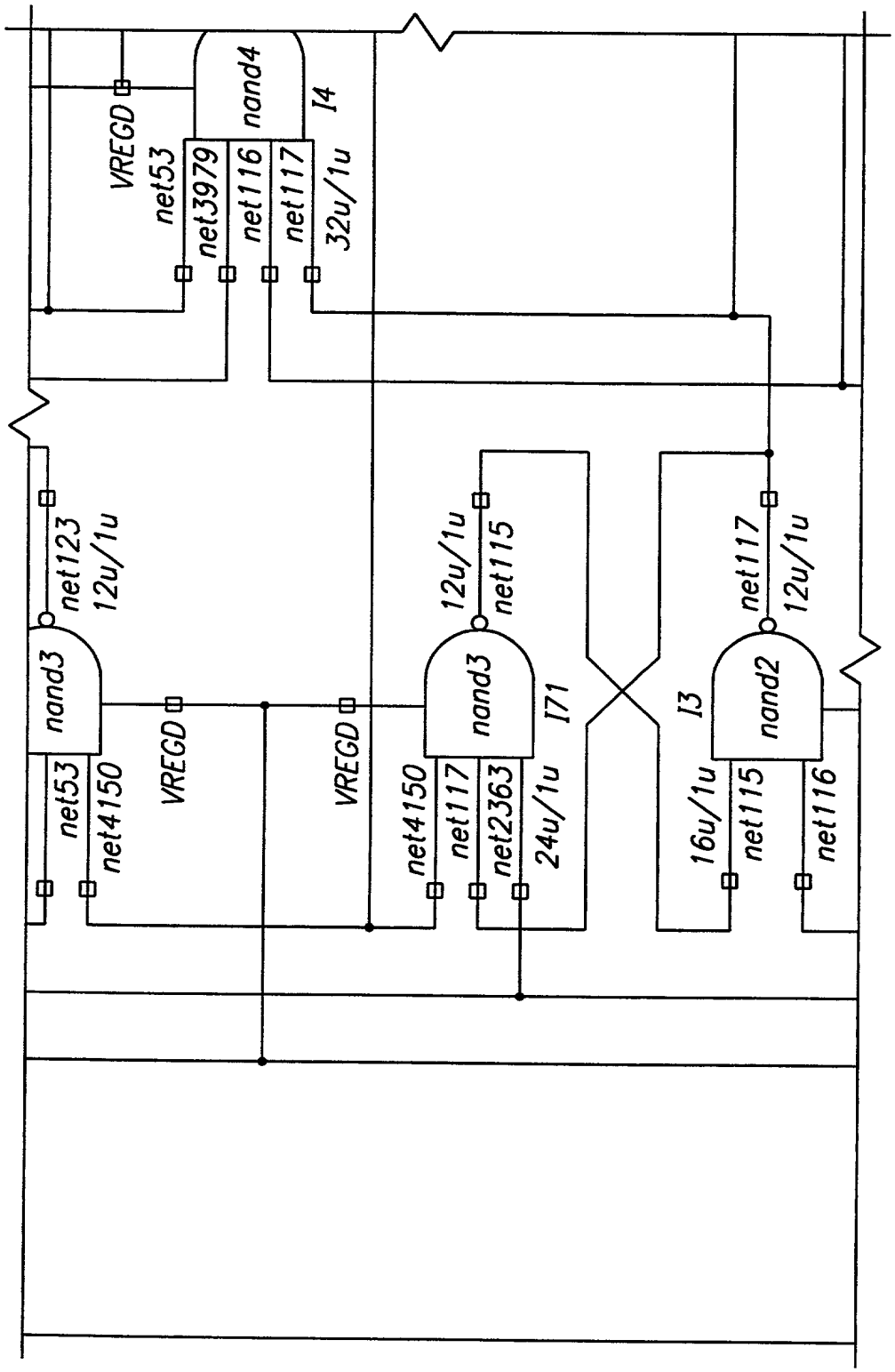


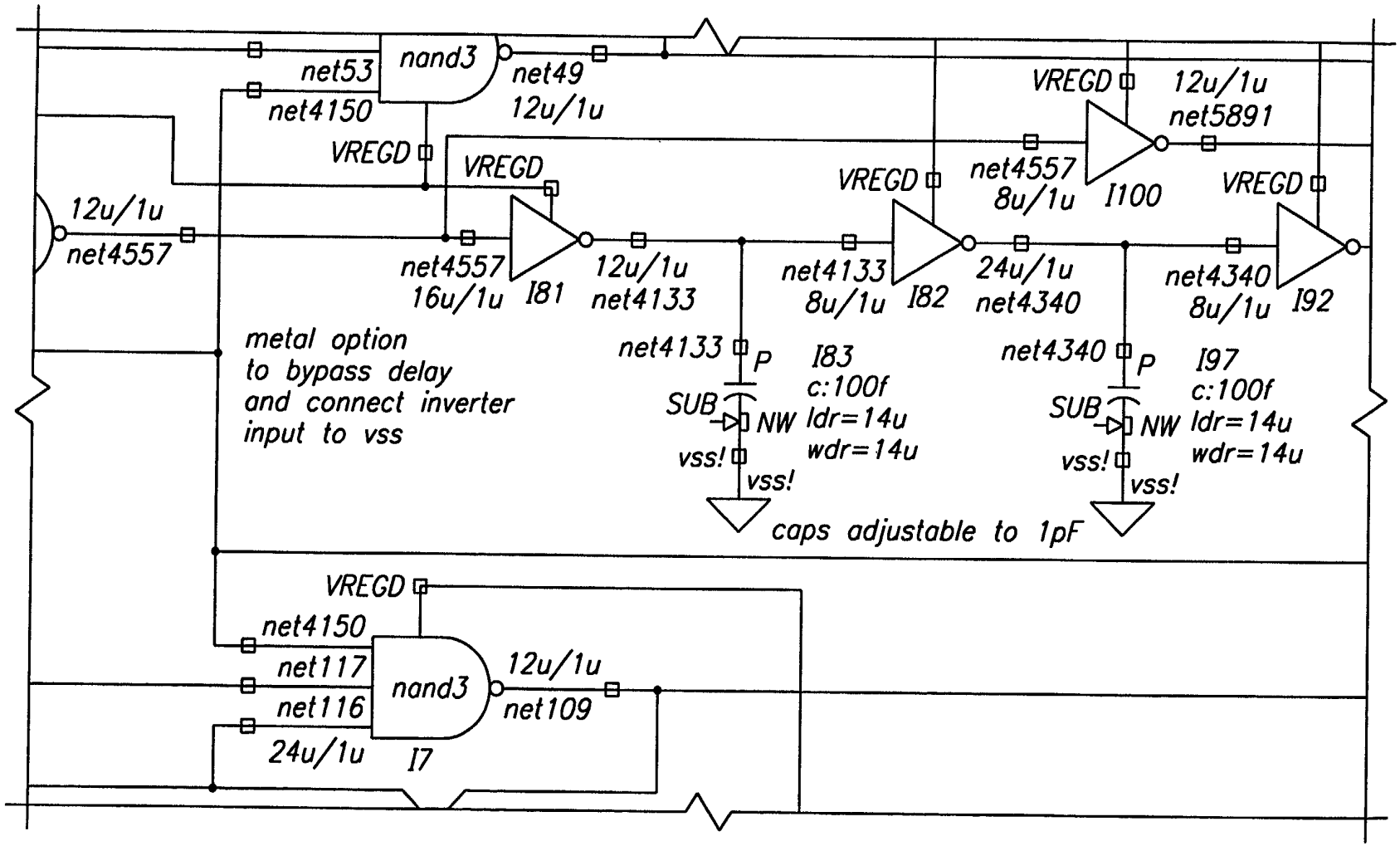
Fig 8.060101AB

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Фиг. 8в. ИЗОБРАЖЕНИЕ



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Fig 8.0601018B

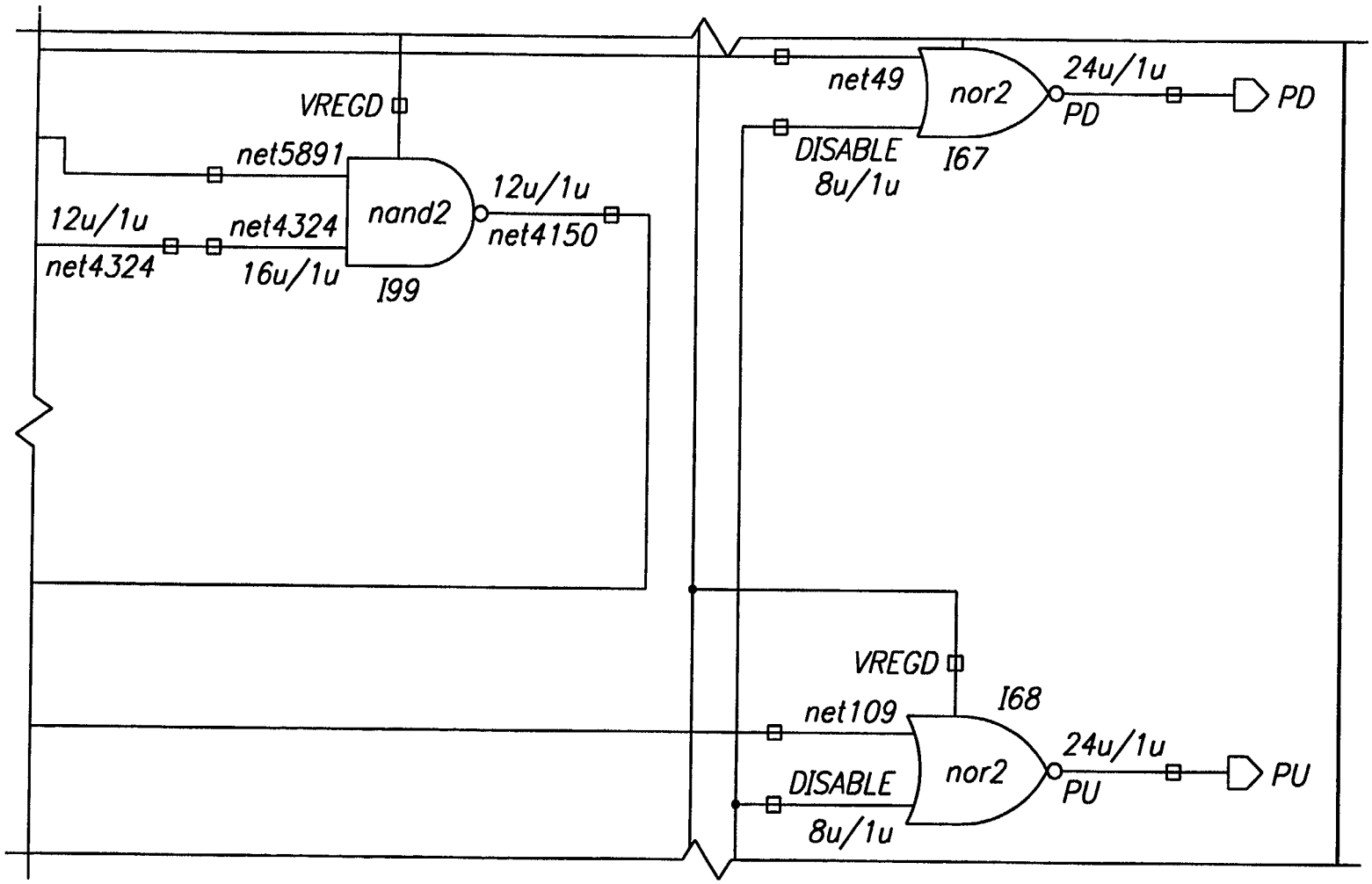
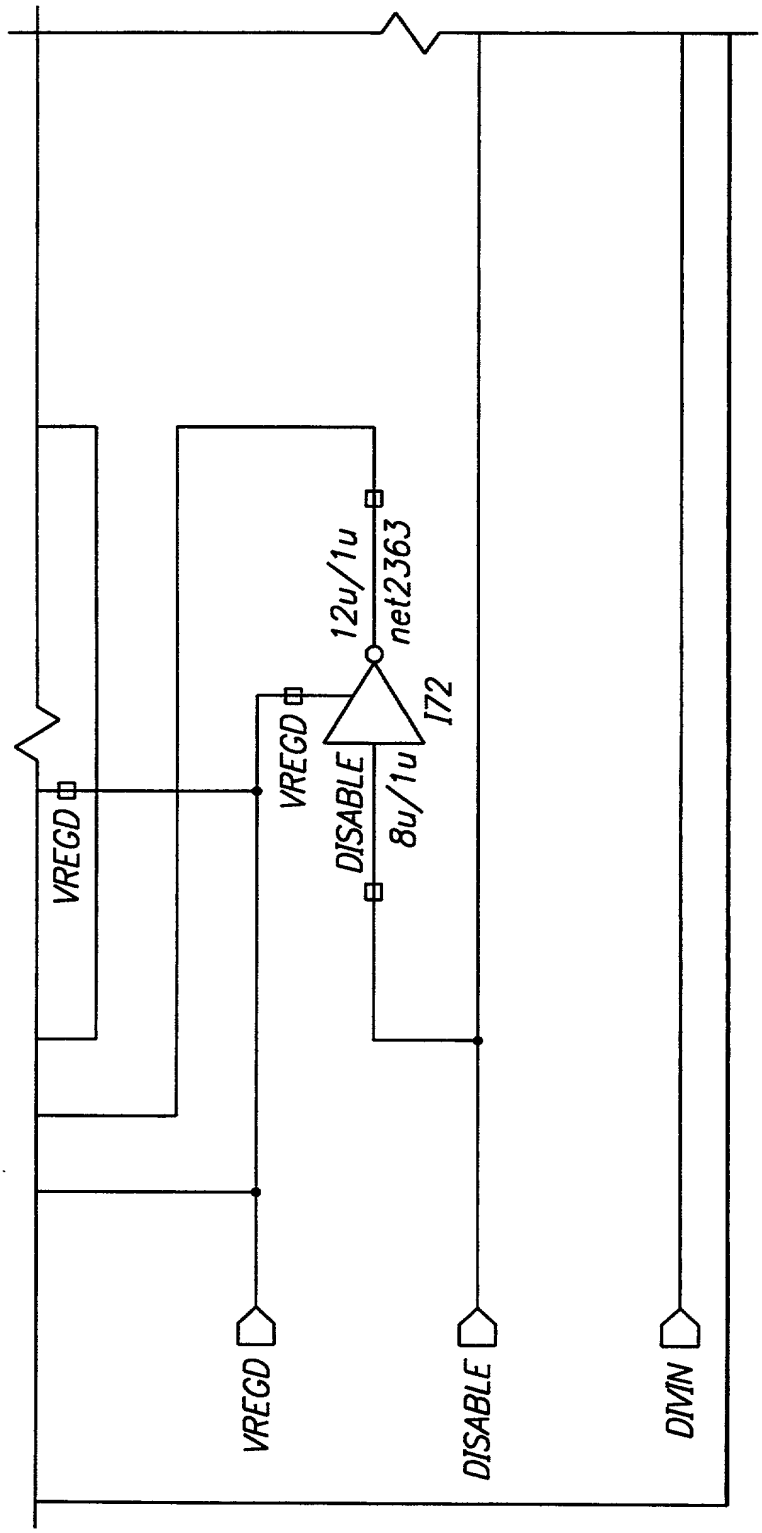


Fig 8.0601018C



Фиг 8.0501ICA

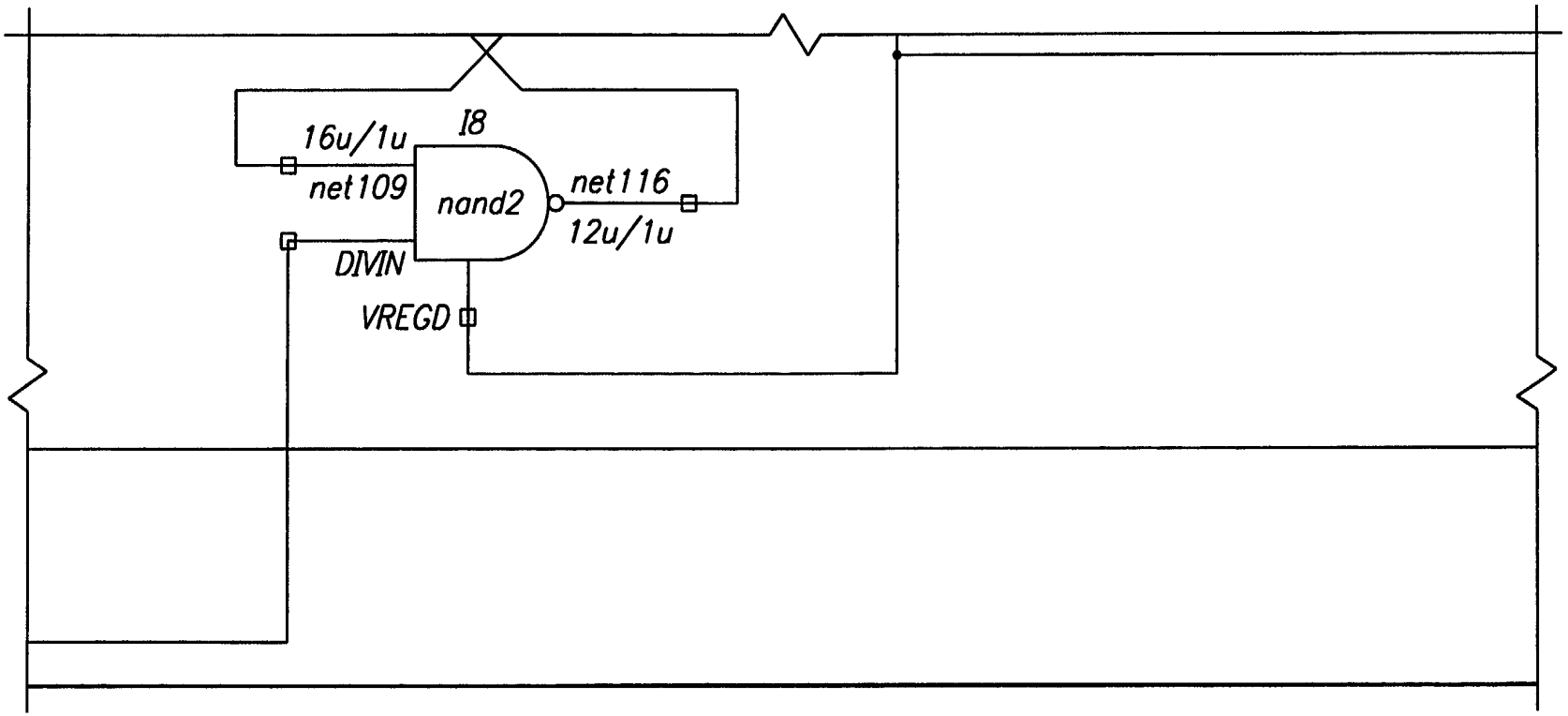
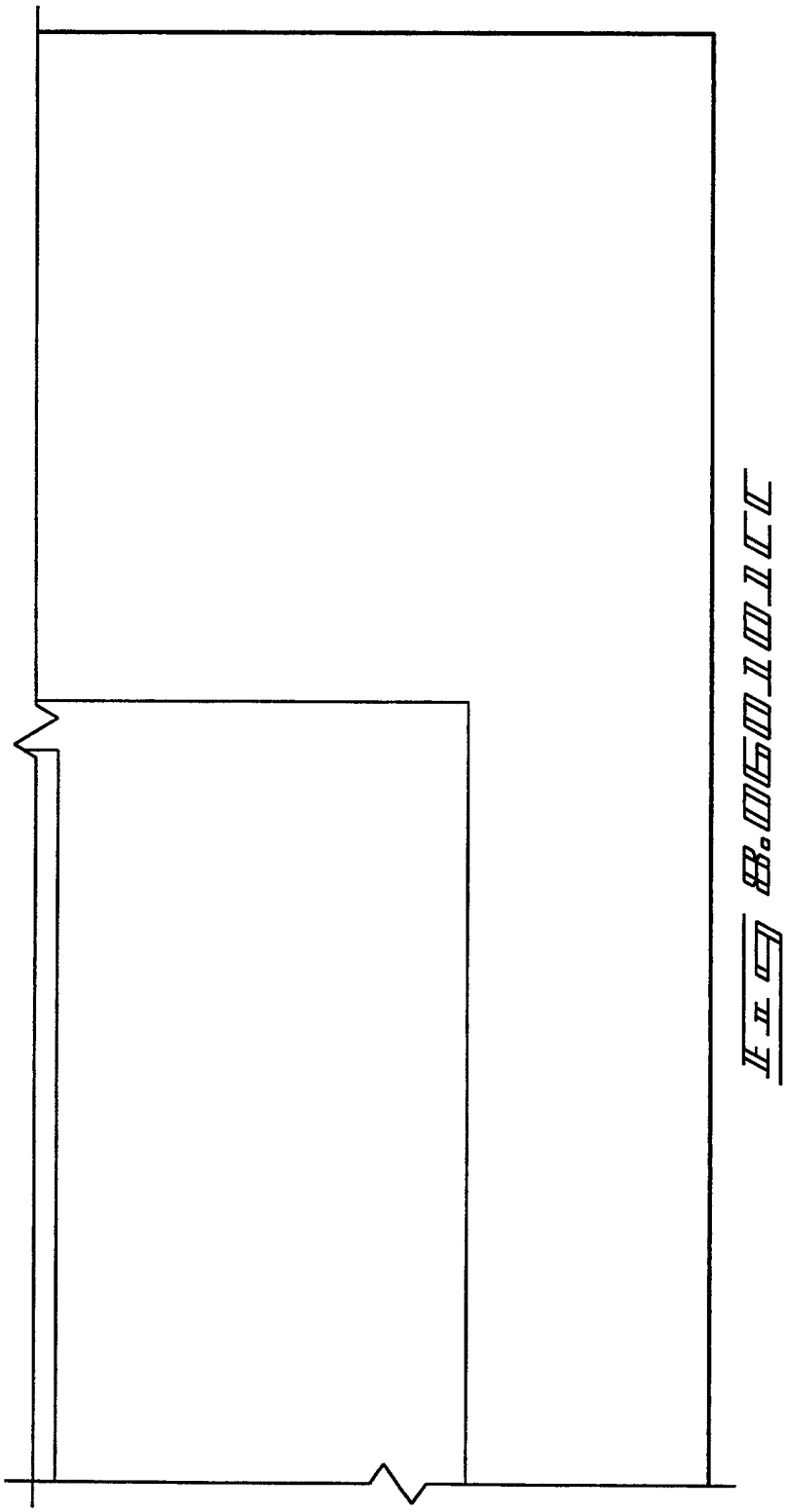


Fig 8.0601011CB

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Document Generated: 2024-05-03

TAITSO* E9022960

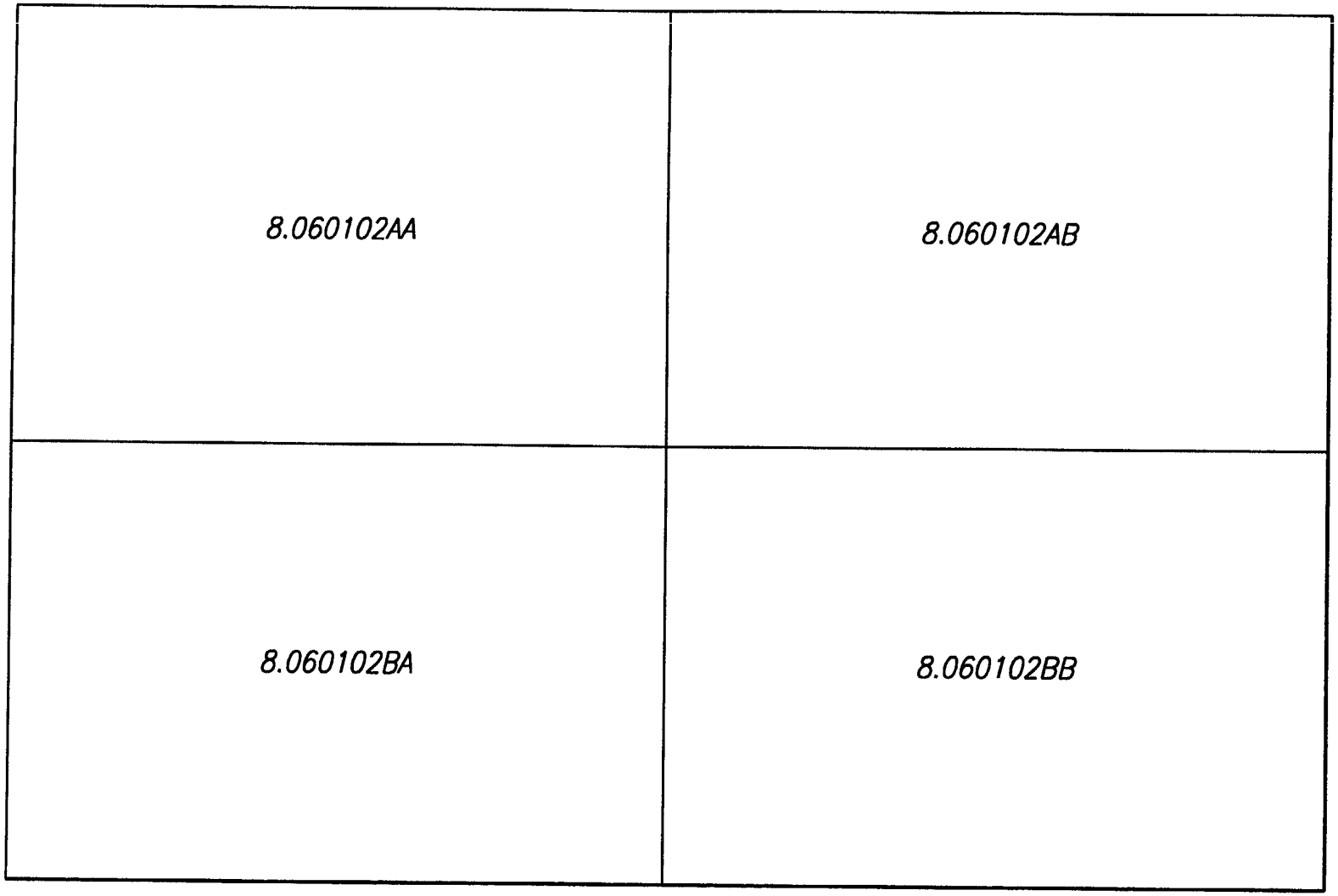
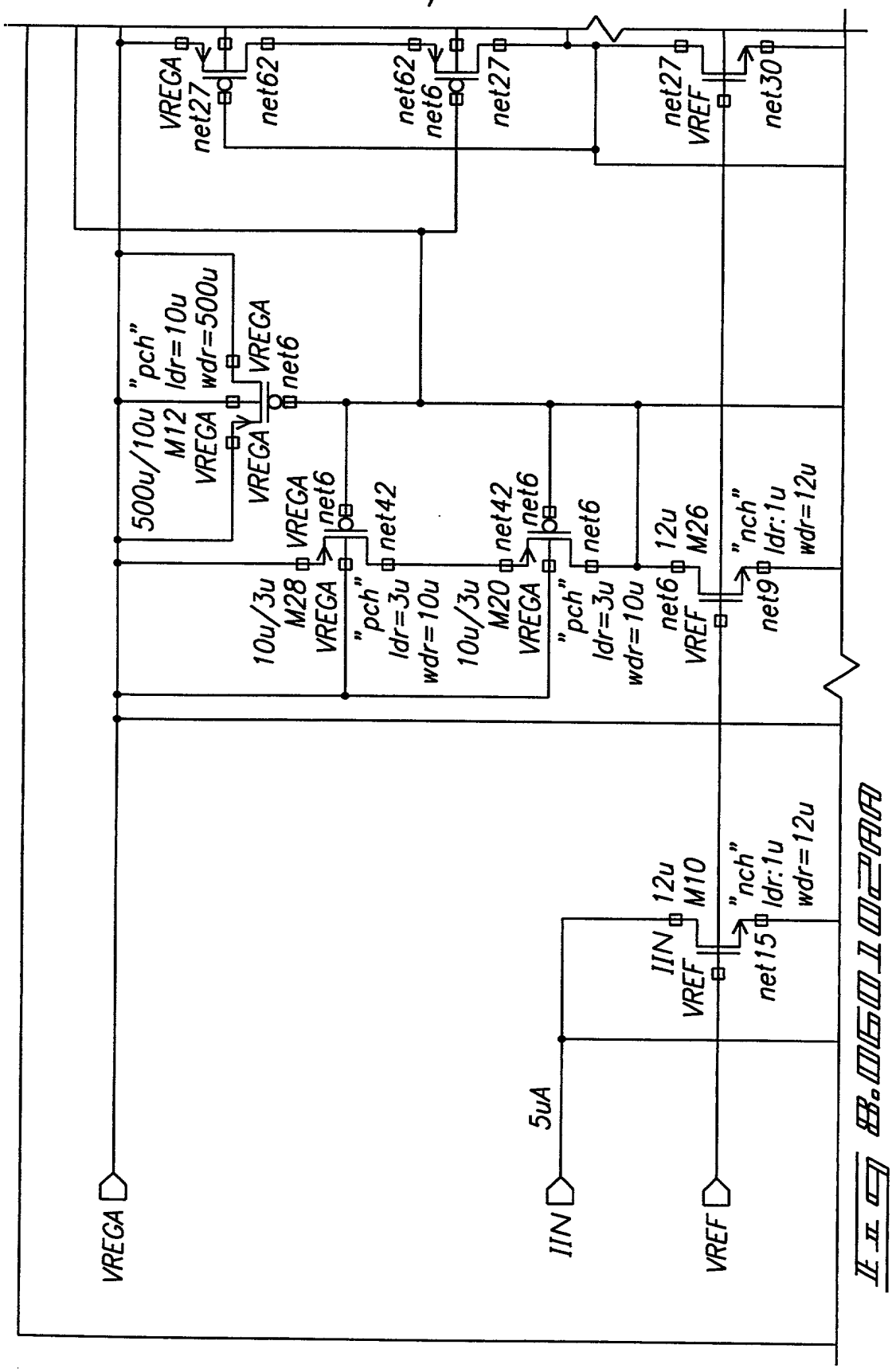
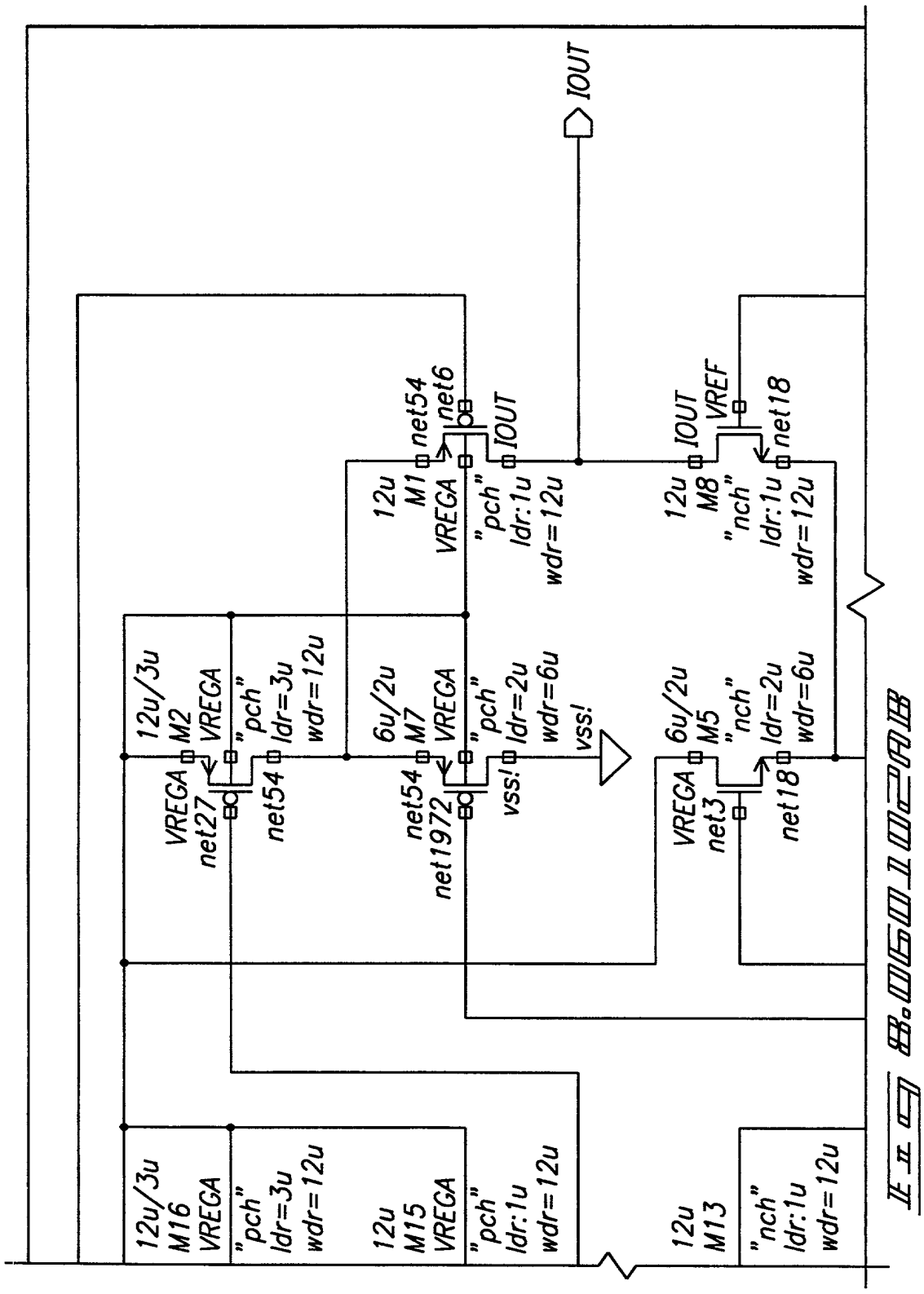


Fig 8.060102


VREGA
net27
net62
net62
net6
net27
net27
VREF
net30
"pch"
ldr=10u
wdr=500u
VREGA
net6
500u/10u
M12
VREGA
VREGA
VREGA
net6
10u/3u
M28
VREGA
"pch"
ldr=3u
wdr=10u
net42
net6
10u/3u
M20
VREGA
"pch"
ldr=3u
wdr=10u
net6
12u
M26
net6
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"nch"
ldr:1u
wdr=12u
net9
5uA
IIN
12u
M10
IIN
VREF
"nch"
ldr:1u
wdr=12u
net15
VREGA
IIN
VREF
Ил 88.00102


IOUT
12u/3u
M16
VREGA
"pch"
ldr=3u
wdr=12u
12u
M15
VREGA
"pch"
ldr:1u
wdr=12u
12u/3u
M2
VREGA
"pch"
ldr=3u
wdr=12u
VREGA
net27
net54
6u/2u
M7
VREGA
"pch"
ldr=2u
wdr=6u
net54
net1972
vss!
12u
M1
net54
VREGA
net6
"pch"
ldr:1u
wdr=12u
IOUT
vss!
12u
M13
"nch"
ldr:1u
wdr=12u
6u/2u
M5
"nch"
ldr=2u
wdr=6u
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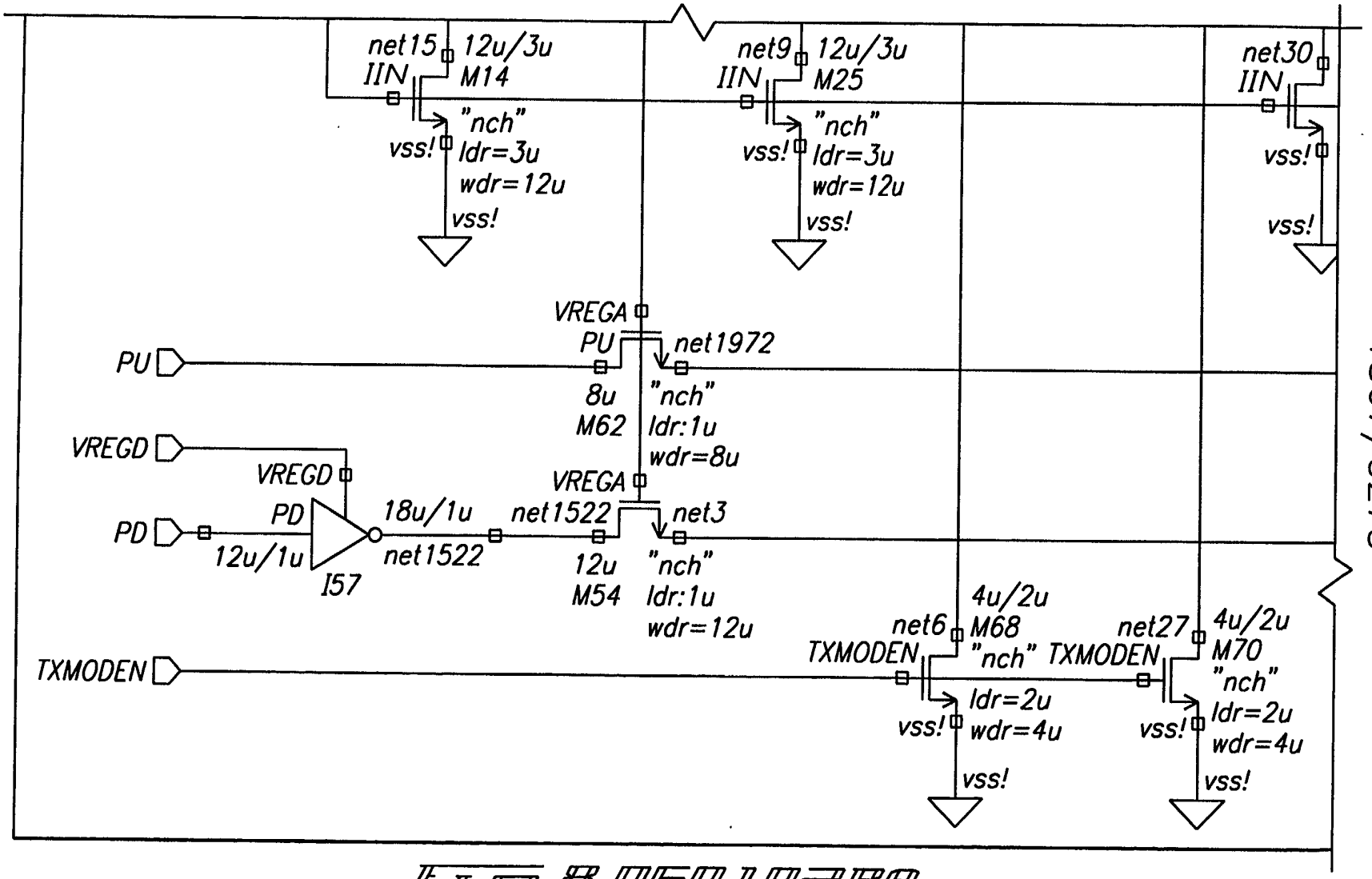


Fig 8.0601028A

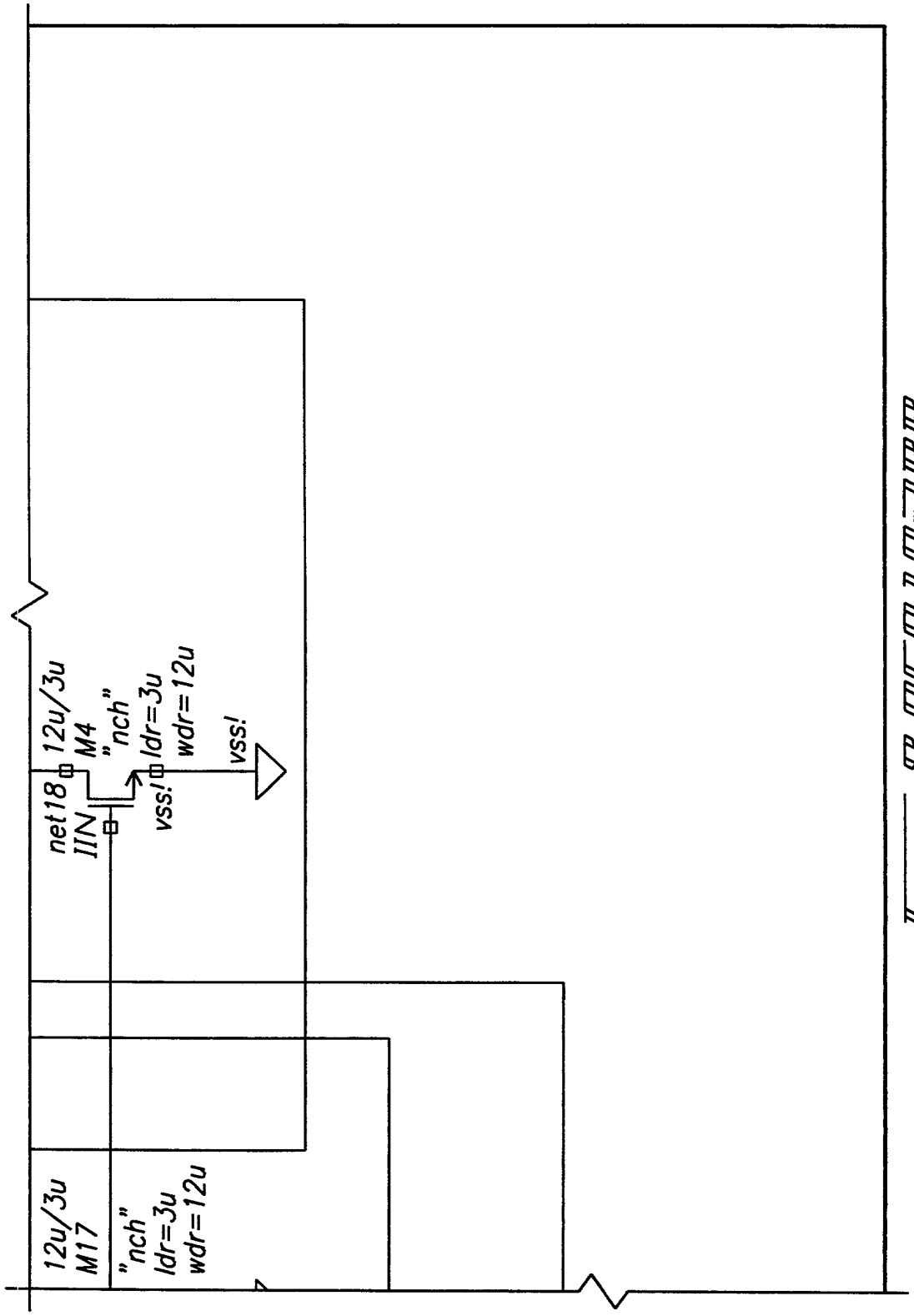


FIG 8.0501.0018

US20050259475A1

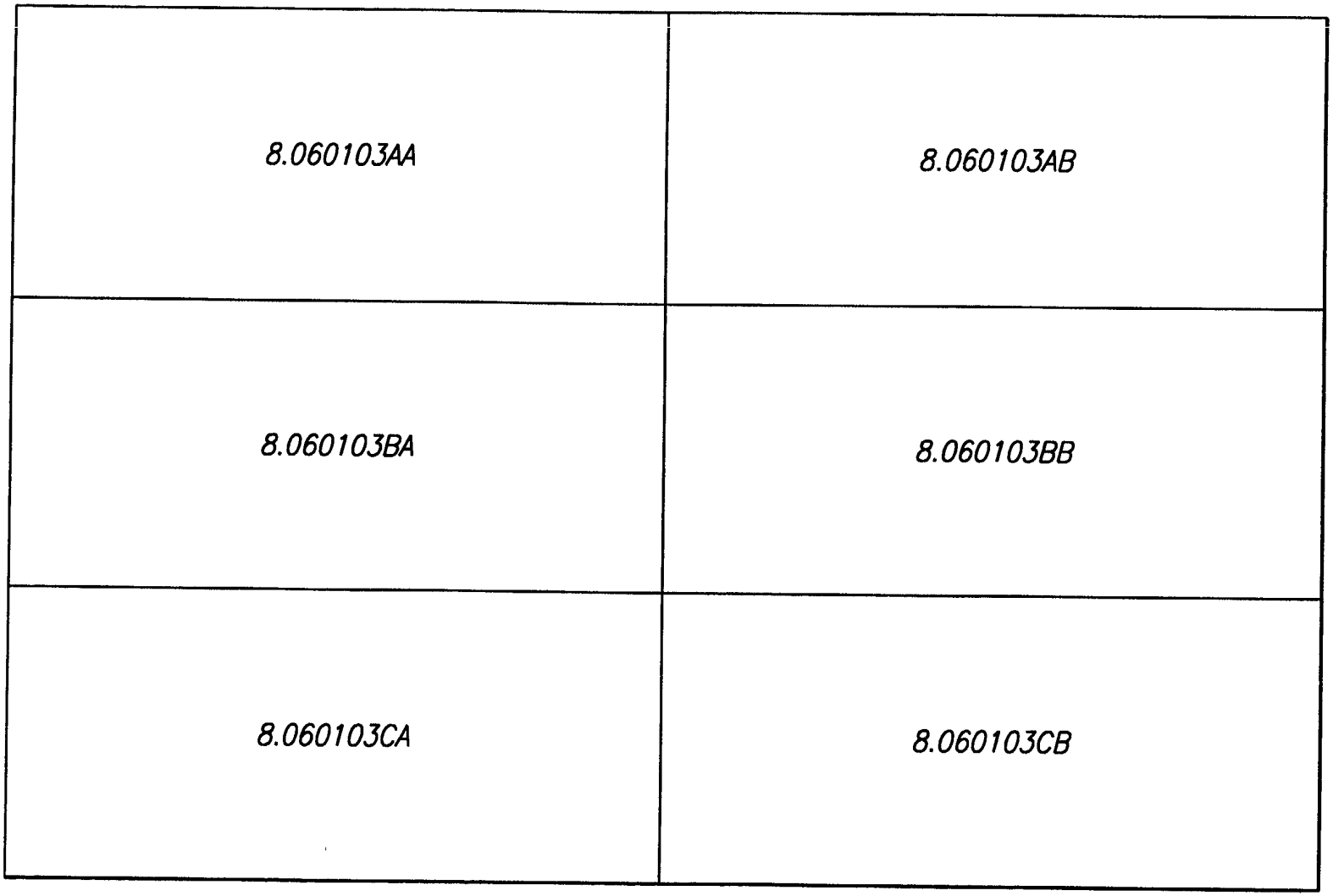

8.060103AA
8.060103AB
8.060103BA
8.060103BB
8.060103CA
8.060103CB

Fig 8.060103

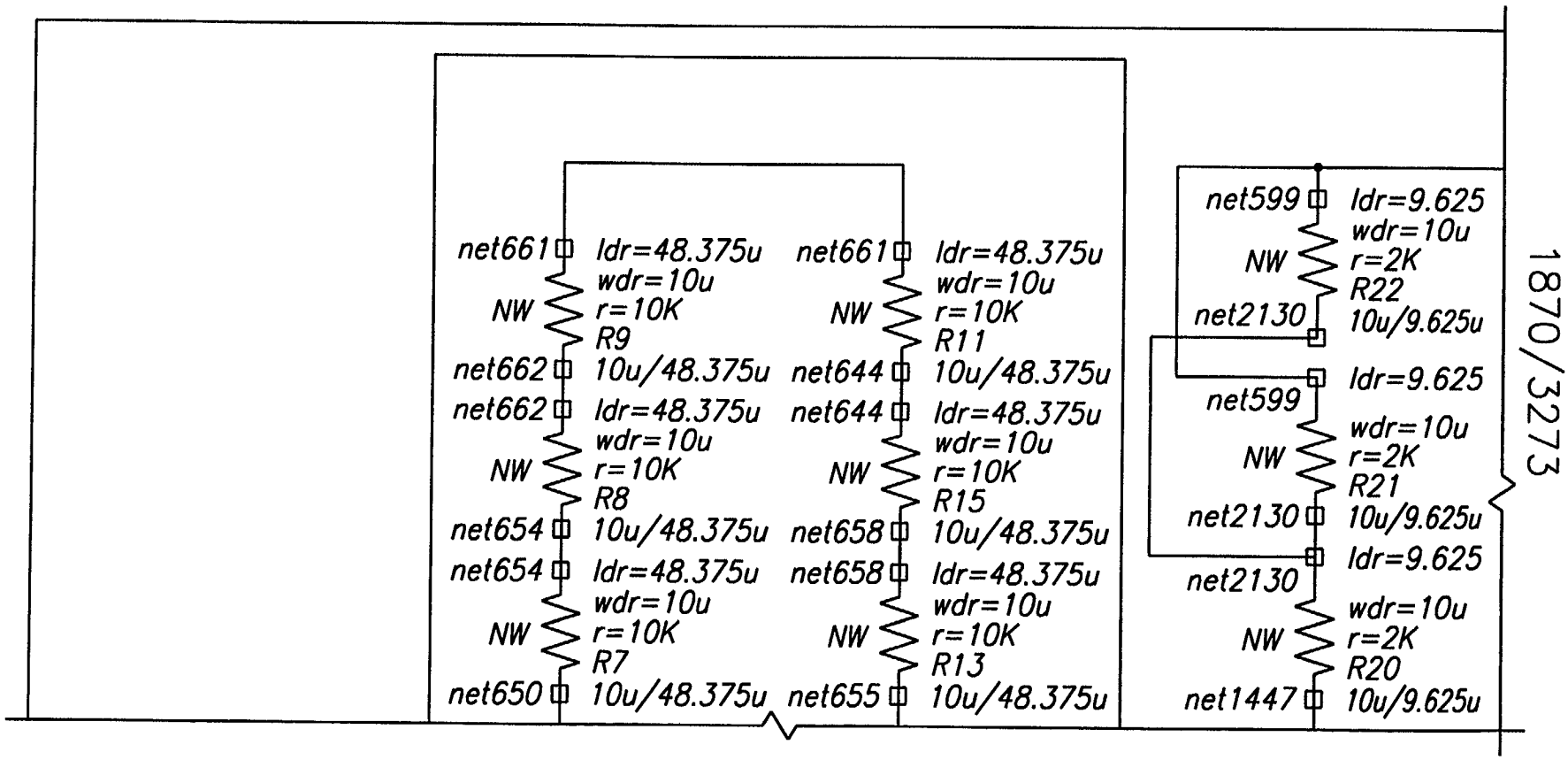


Fig 8.06010AA

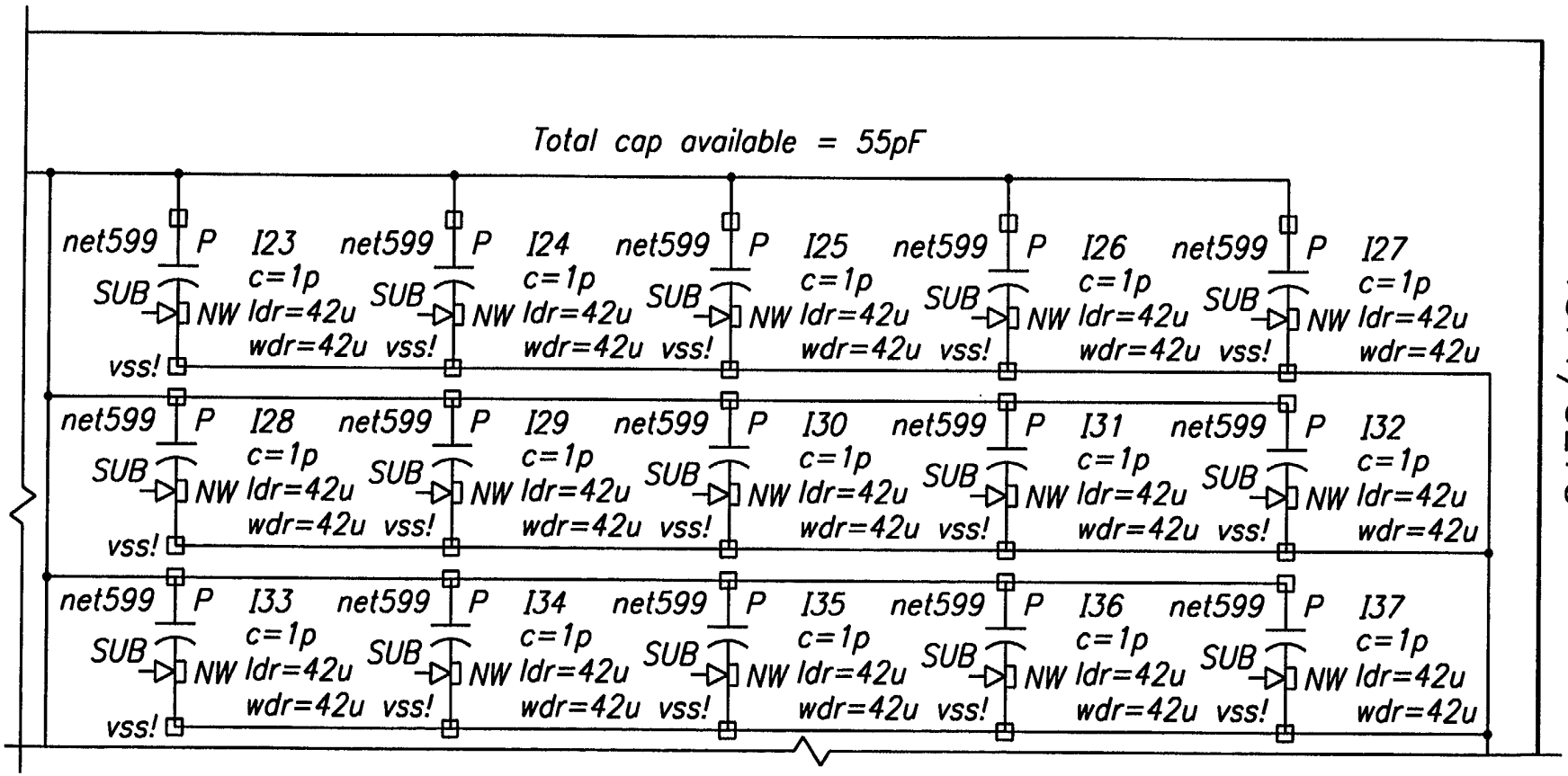


Fig 8.0601038

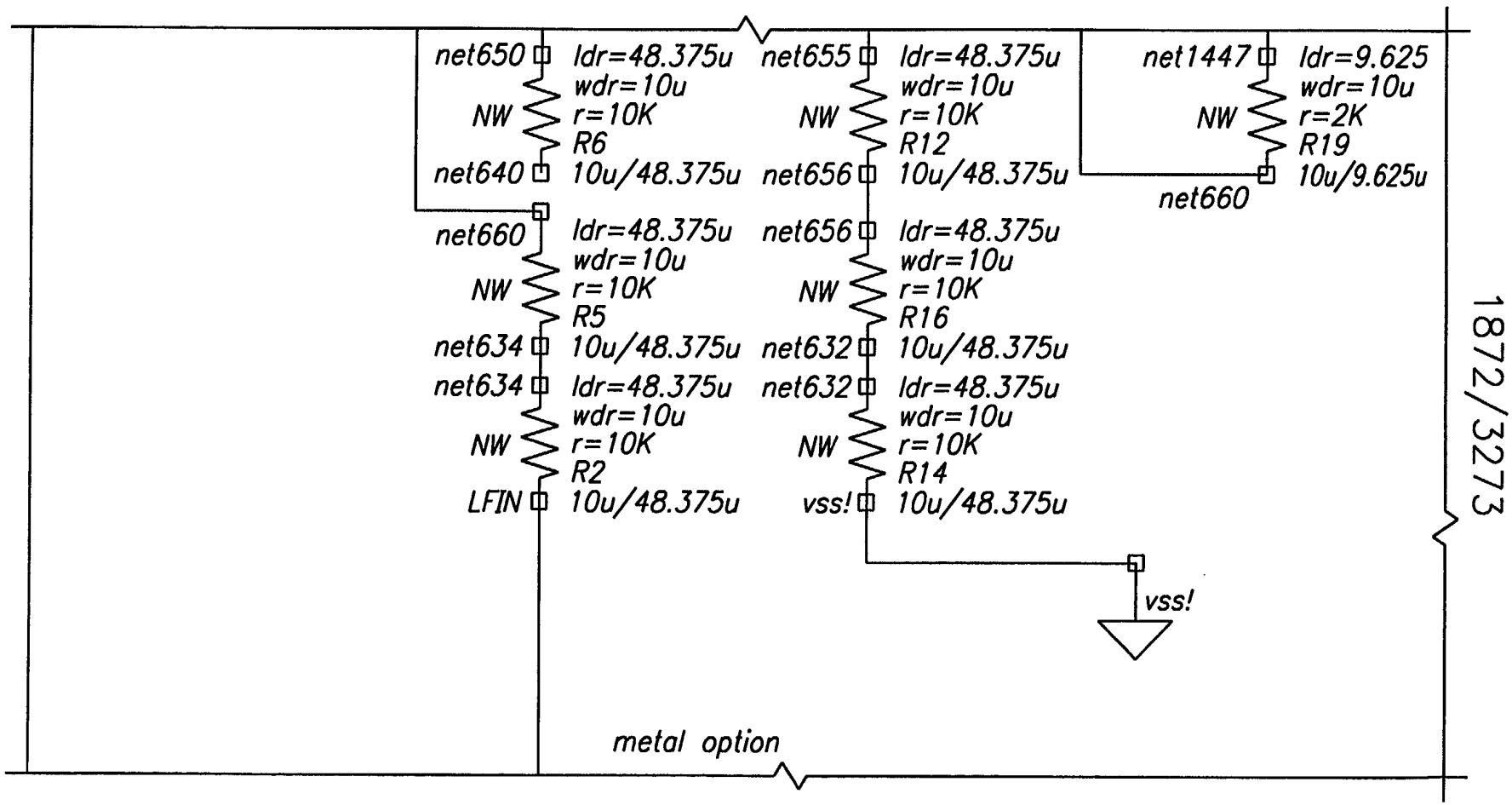


Fig 8.0601038A

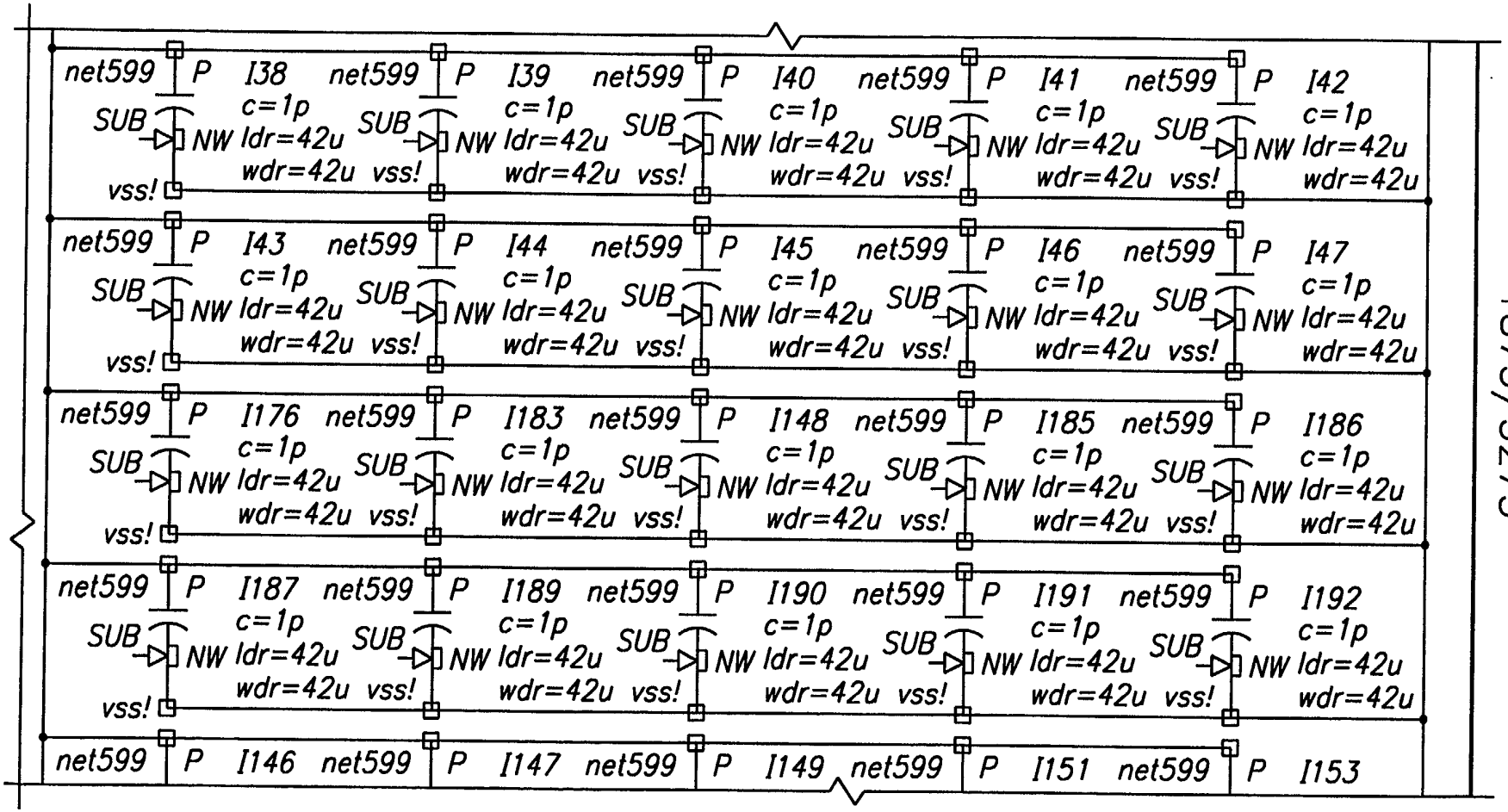


Fig 8,060,103B

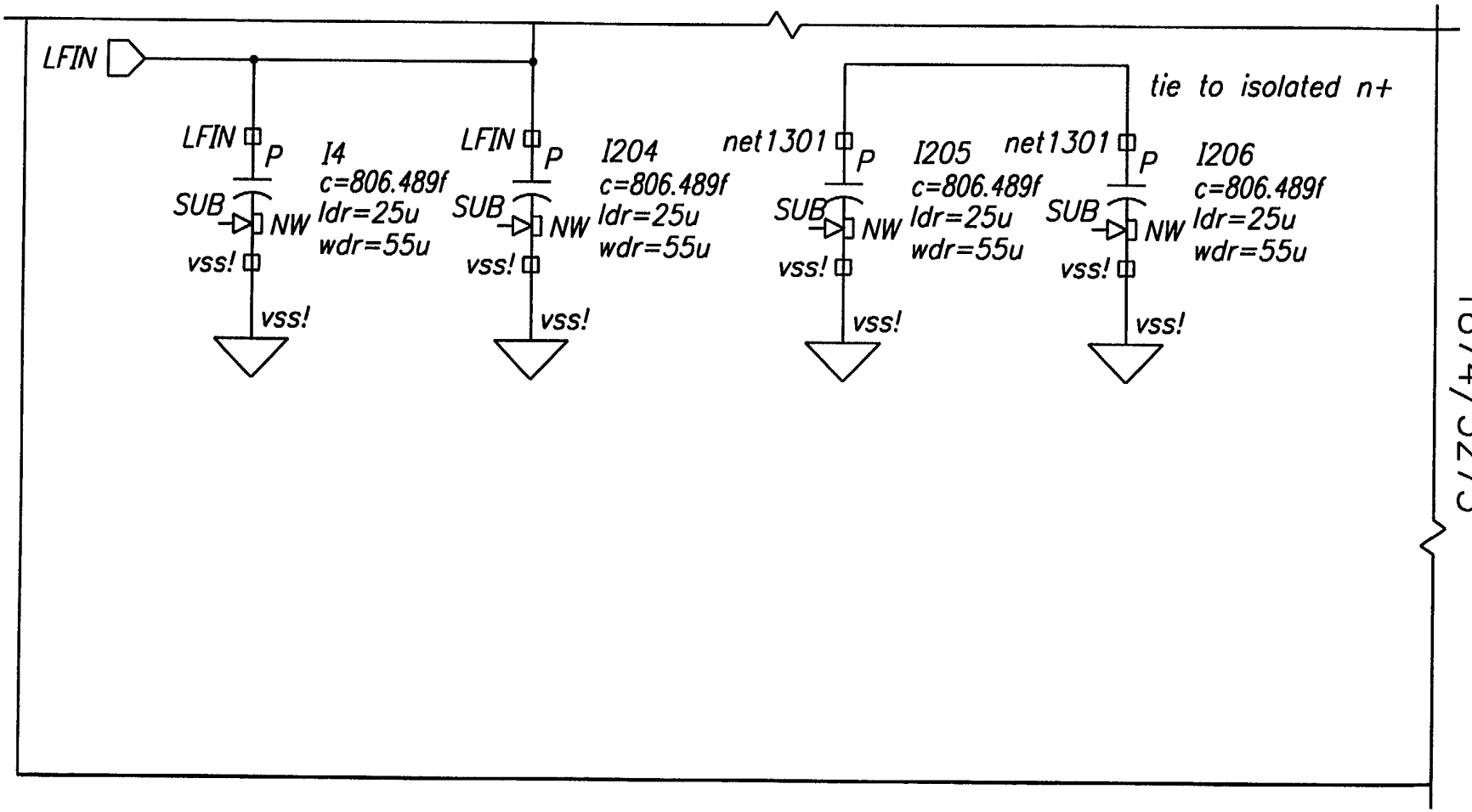


Fig 8.060103CA

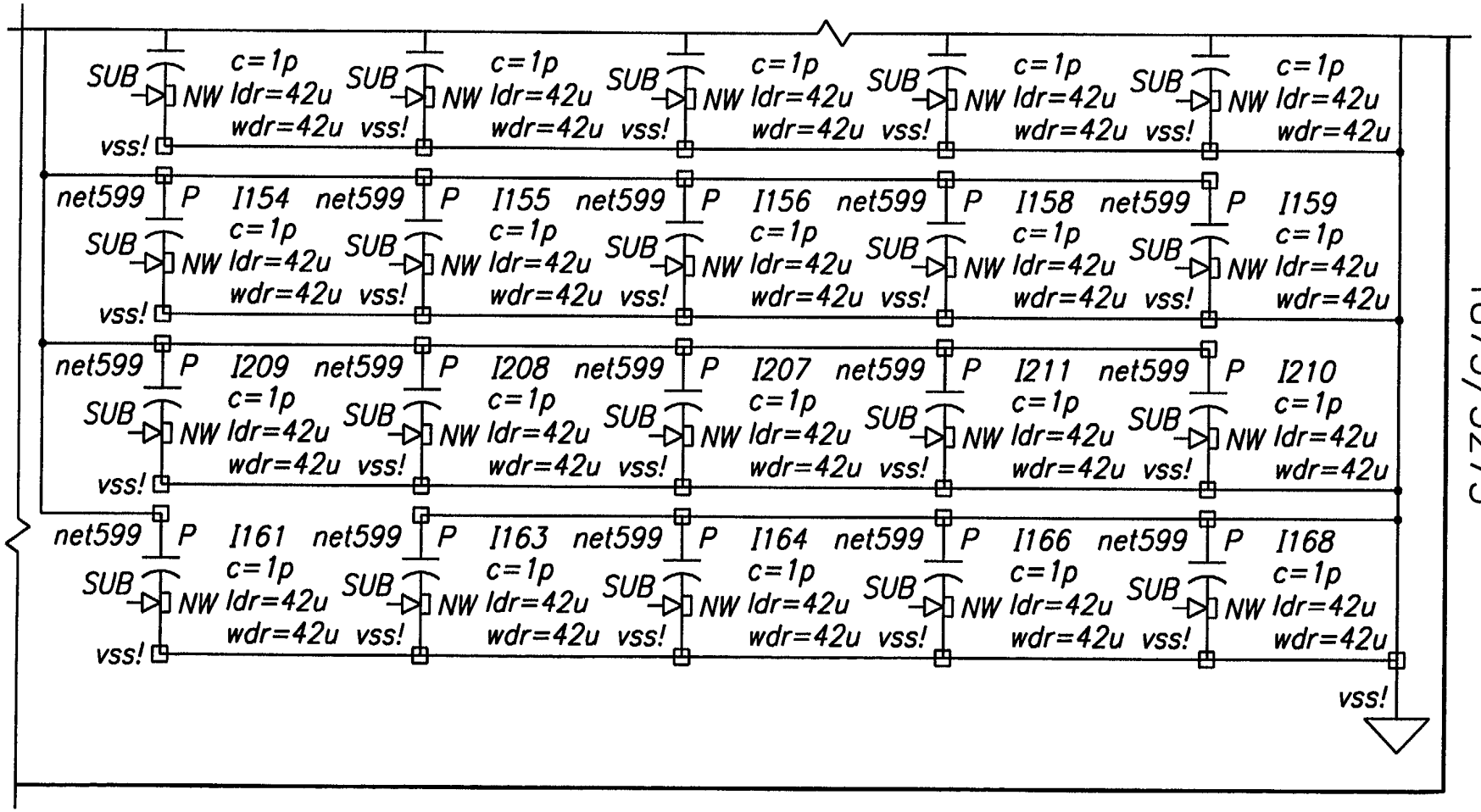


Fig 8.0601036B

8.060104AA	8.060104AB	8.060104AC
8.060104BA	8.060104BB	8.060104BC
8.060104CA	8.060104CB	8.060104CC
8.060104DA	8.060104DB	8.060104DC

Fig 8.060104

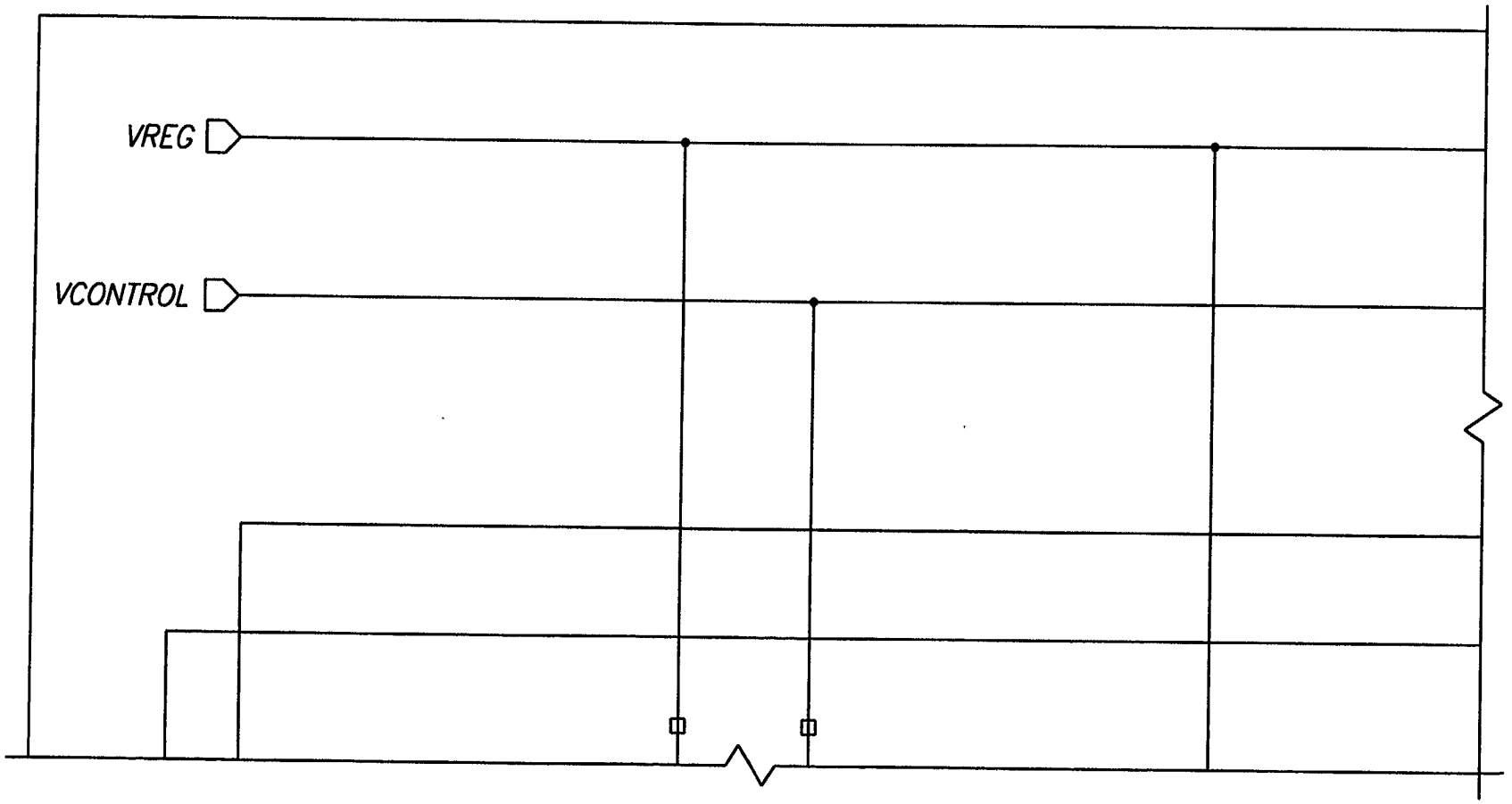


Fig 8.0601104AA

TDI190 E9D23860

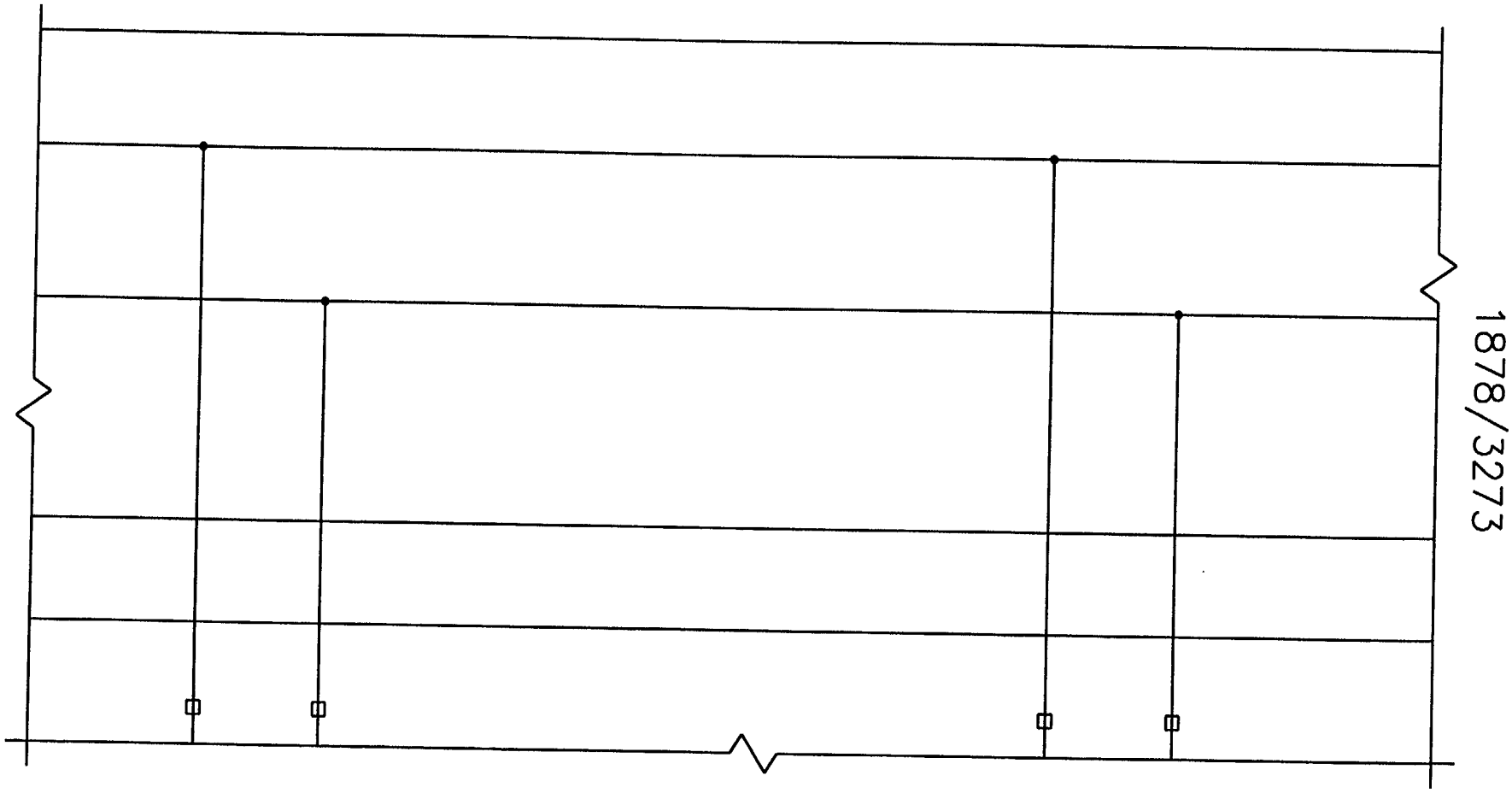
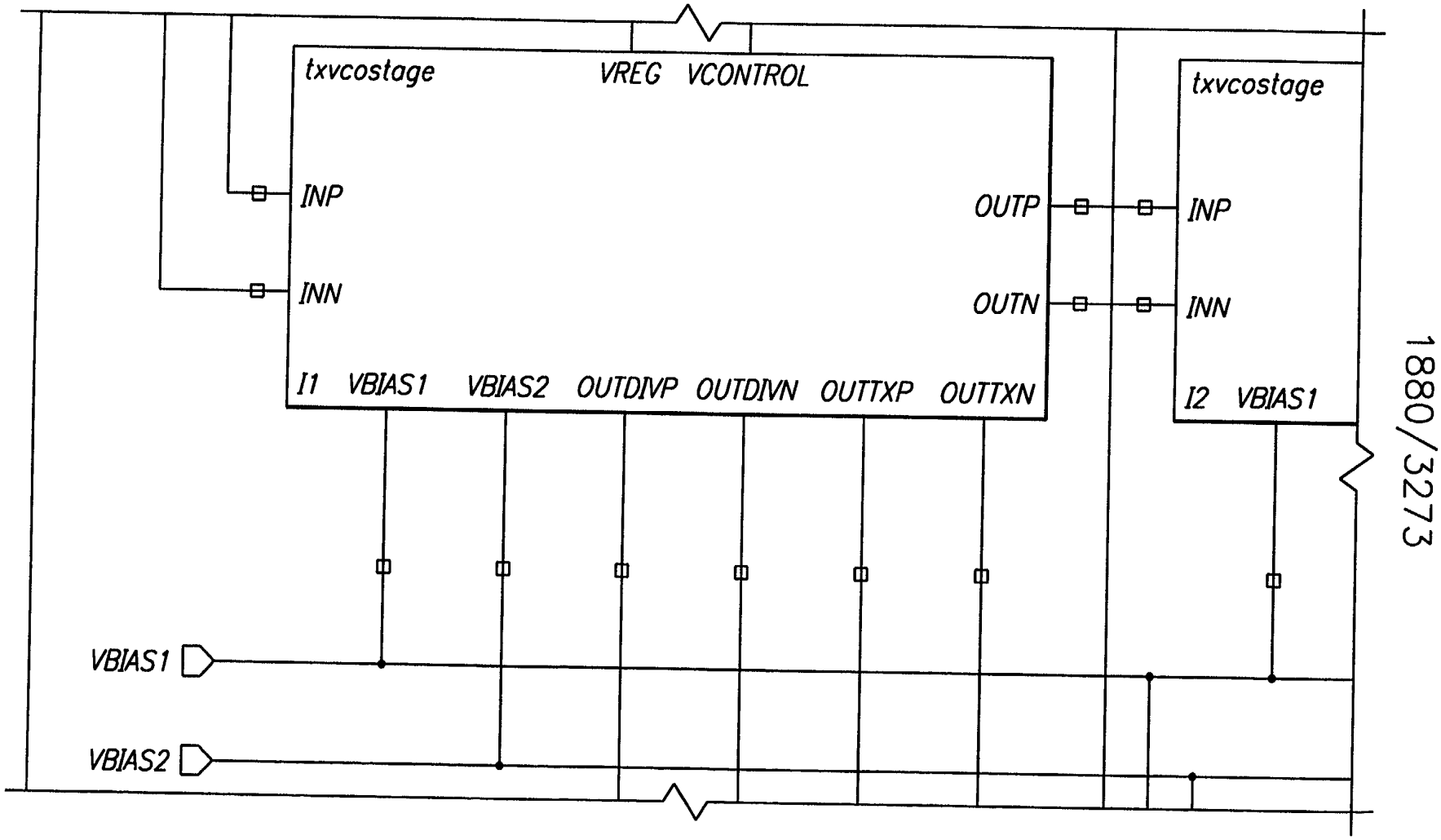


Fig 8.0601104AB

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Копировал



1880/3273

Fig 8.0601041BA

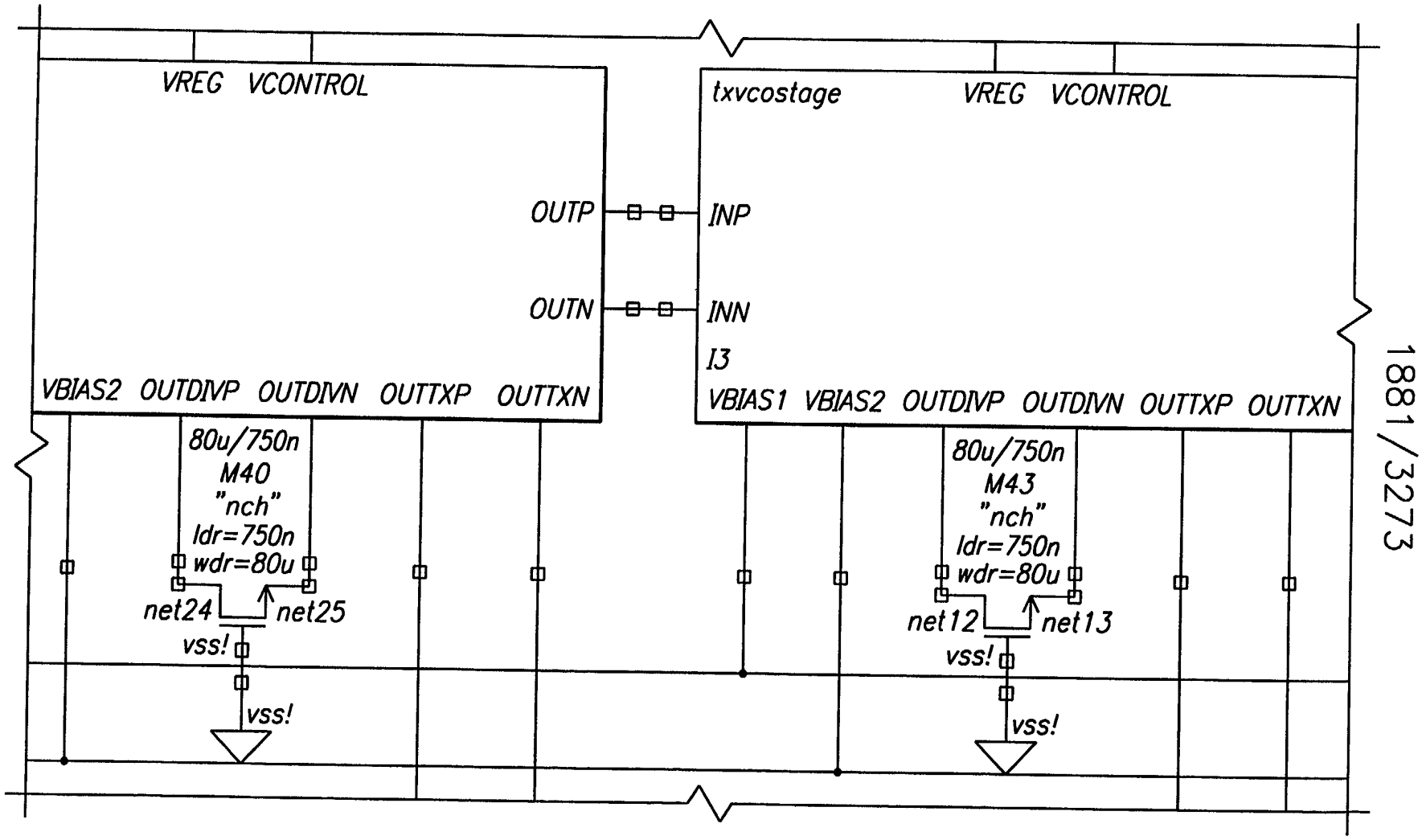
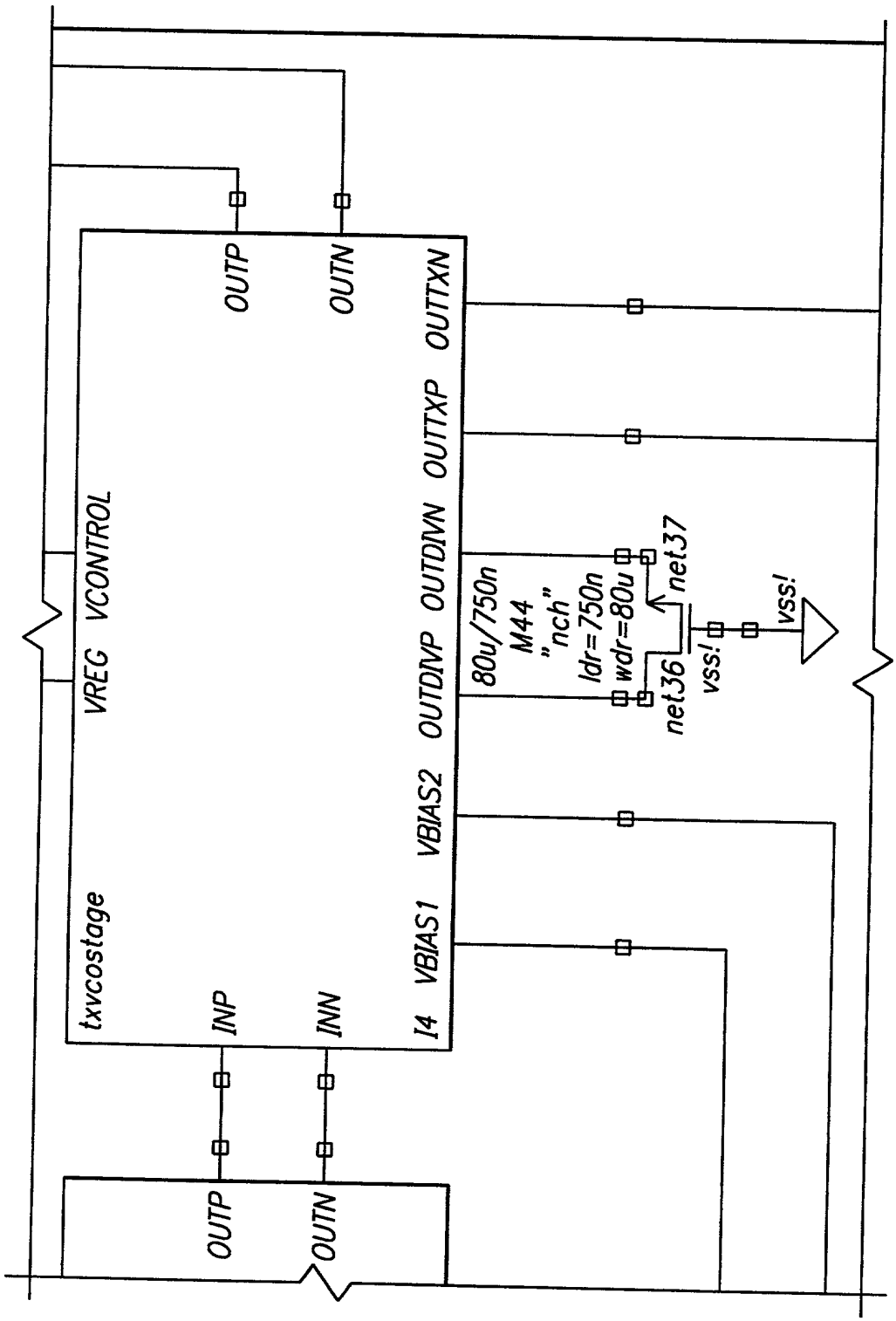


Fig 8.0601041BB


txvcostage
VREG VCONTROL
INP
INN
I4 VBIAS1 VBIAS2 OUTDIVP OUTDIVN OUTTXP OUTTXN
OUTP
OUTN
OUTP
OUTN
80u/750n
M44
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ldr=750n
wdr=80u
net36
net37
vss!
vss!

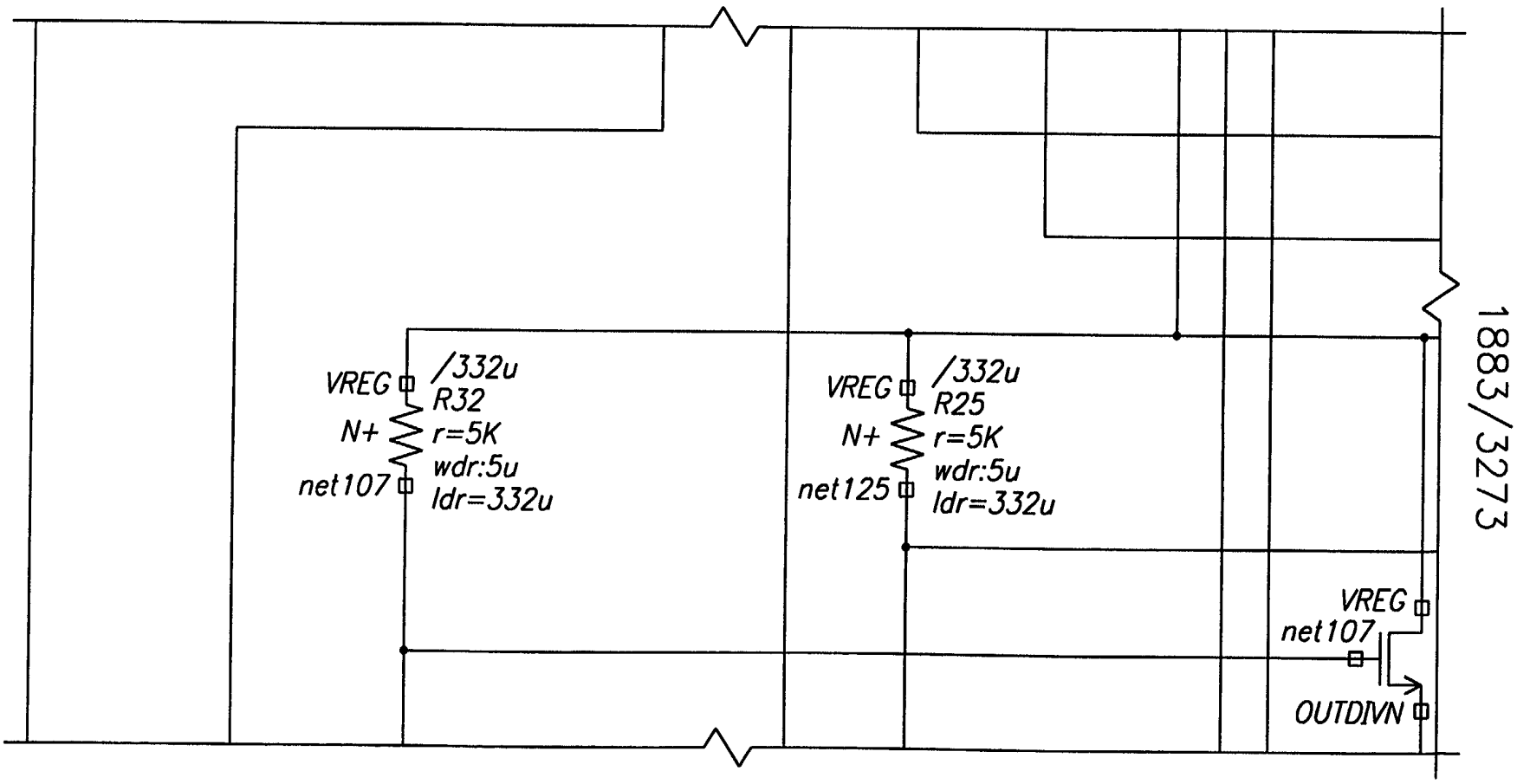


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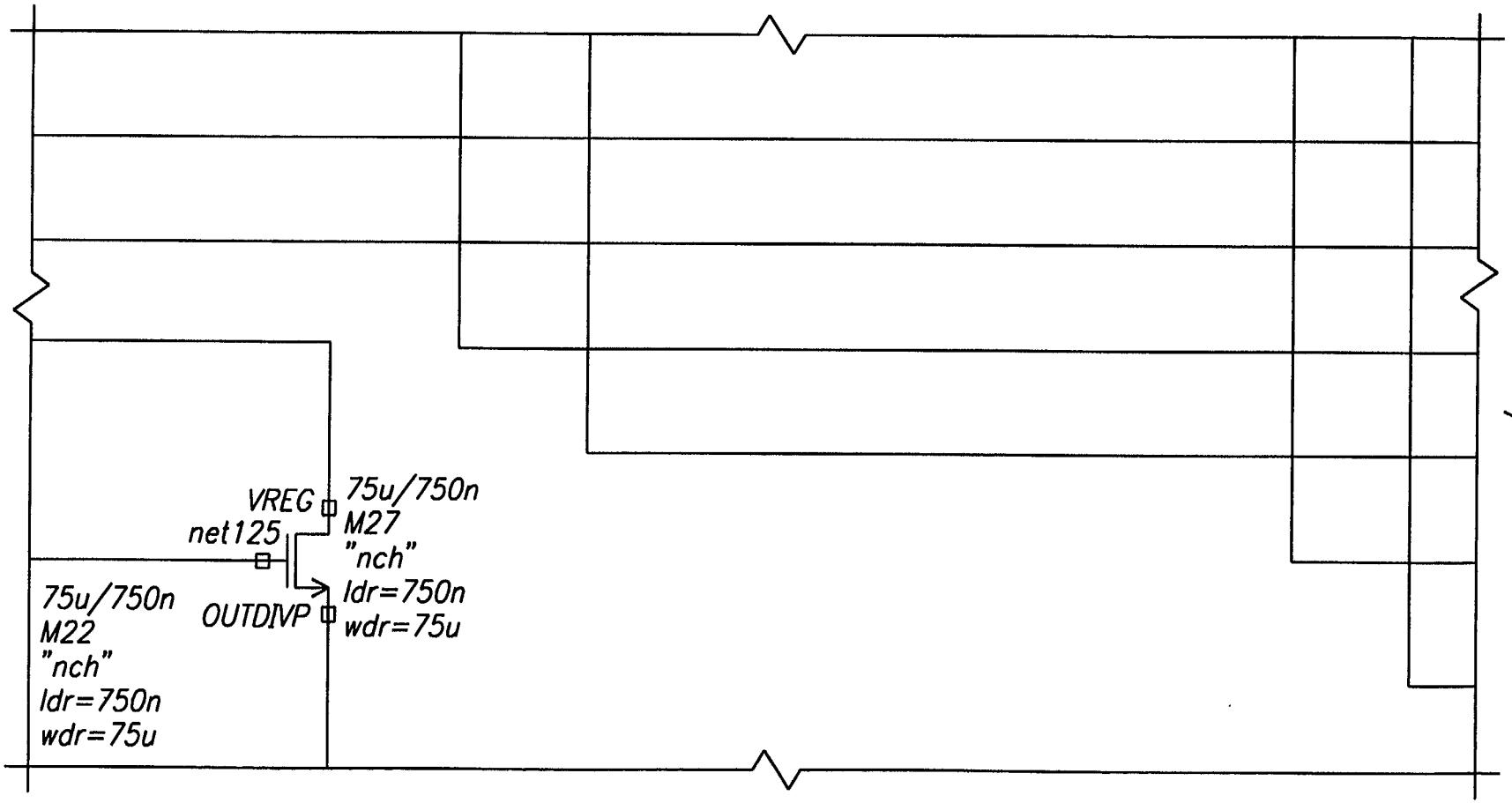
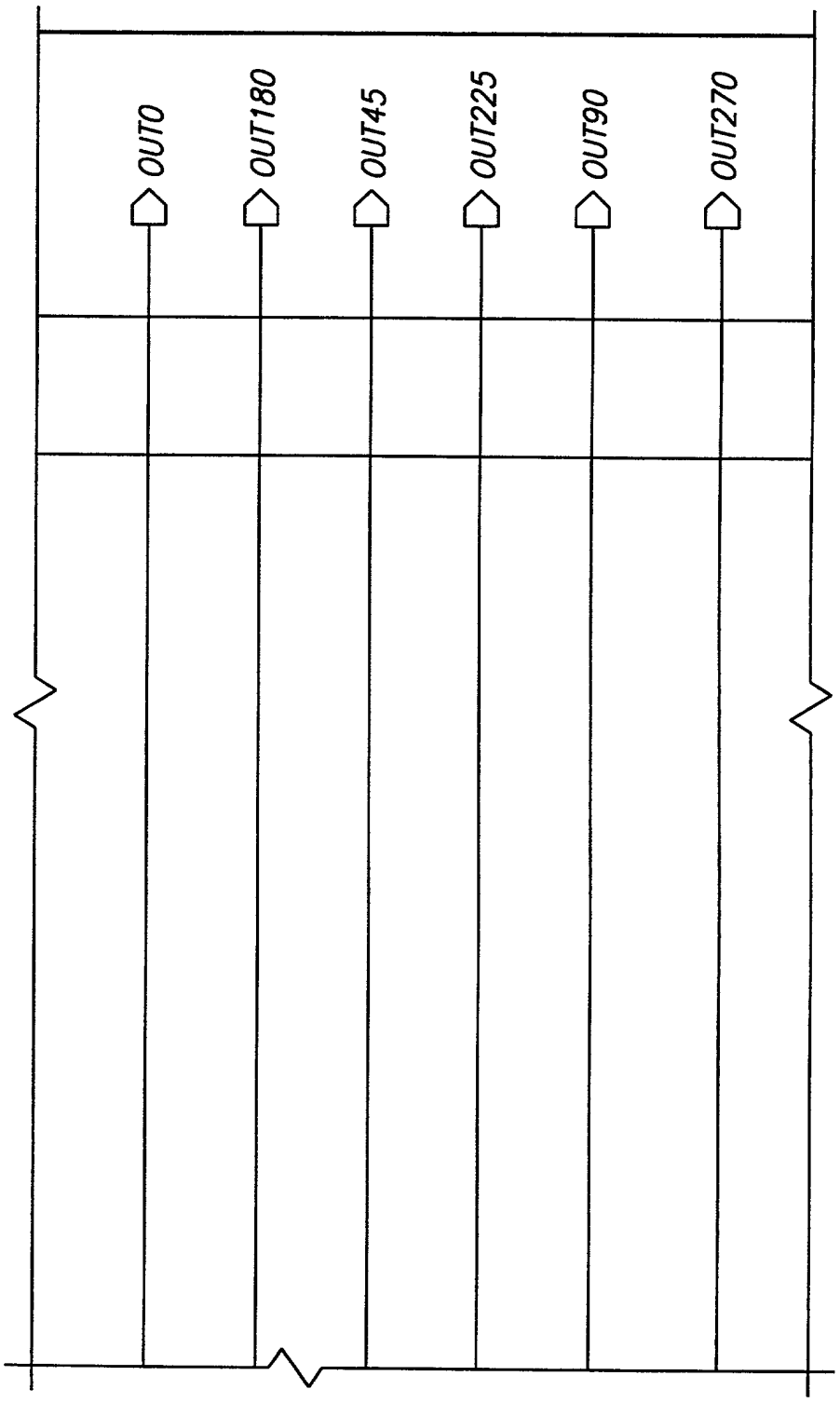


Fig 8.0601047CB



Фиг. 8.0600100400

EP 0 962 858 B1 09-04-2003

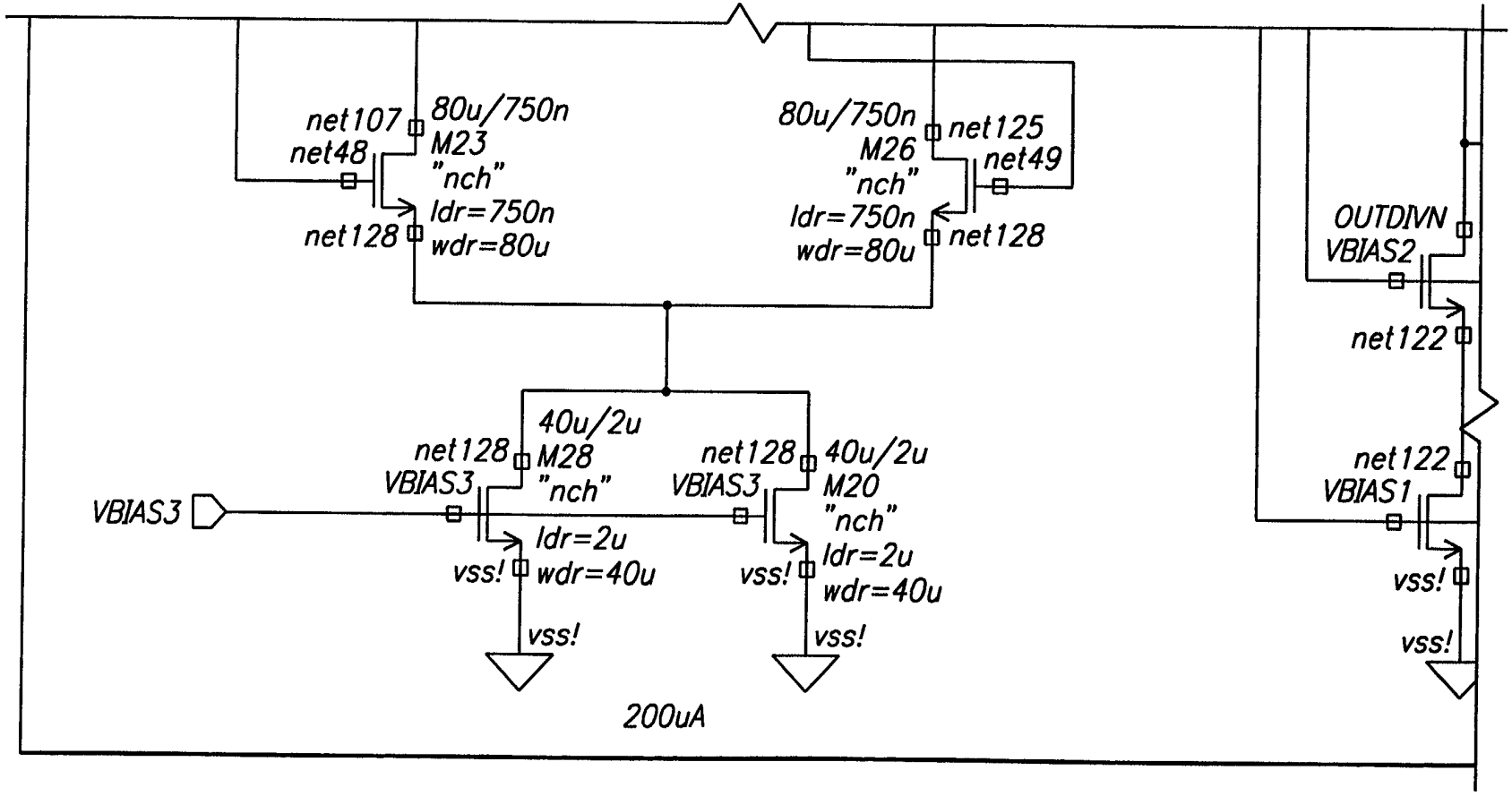


Fig 8.0601104A

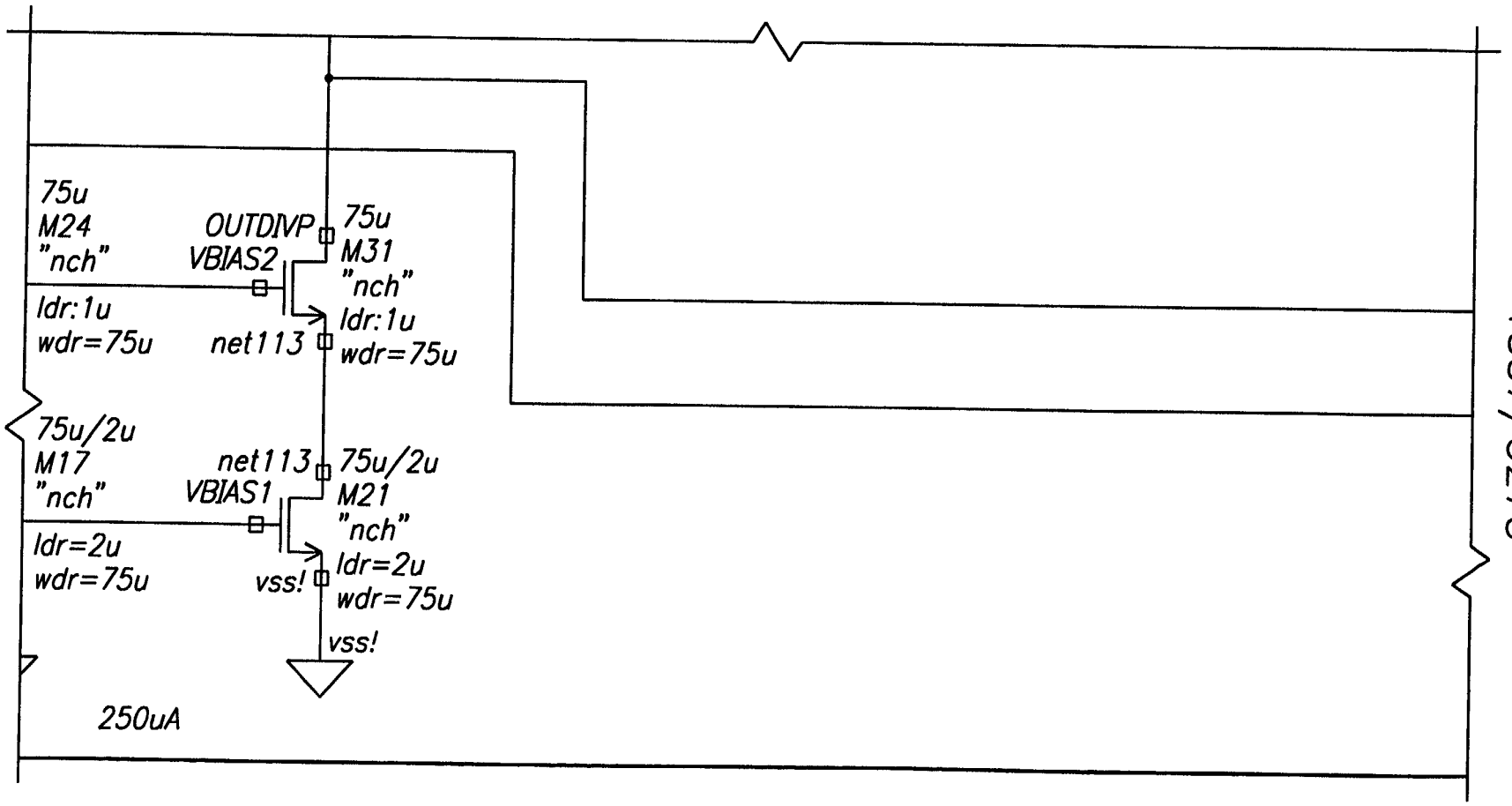


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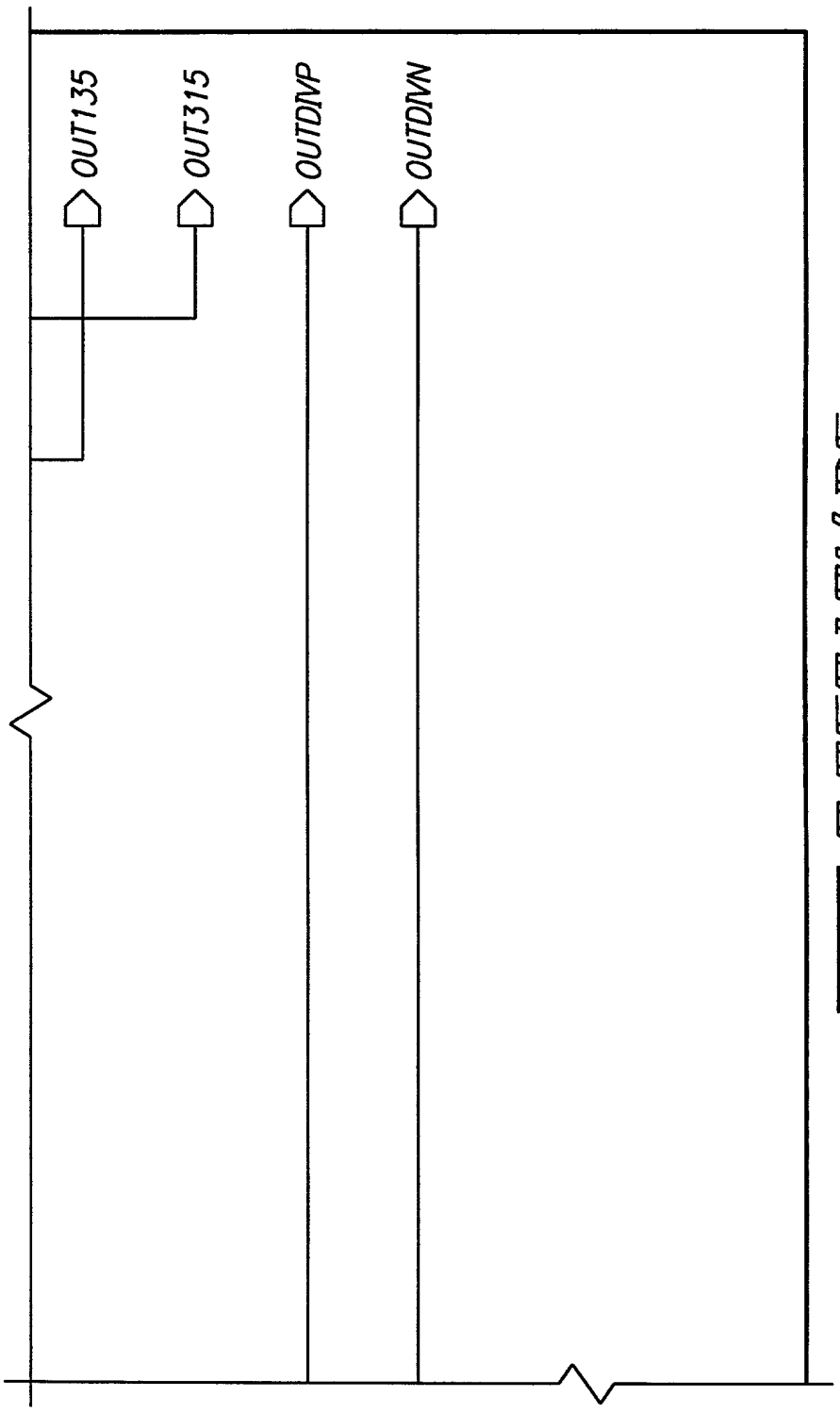


Fig 8.0501 DIVIDER

Downloaded from Elcodis.com electronic components distributor

T0TT90*E90228601

8.06010401AA	8.06010401AB	8.06010401AC	8.06010401AD
8.06010401BA	8.06010401BB	8.06010401BC	8.06010401BD

Fig 8.06010401

1889/3273

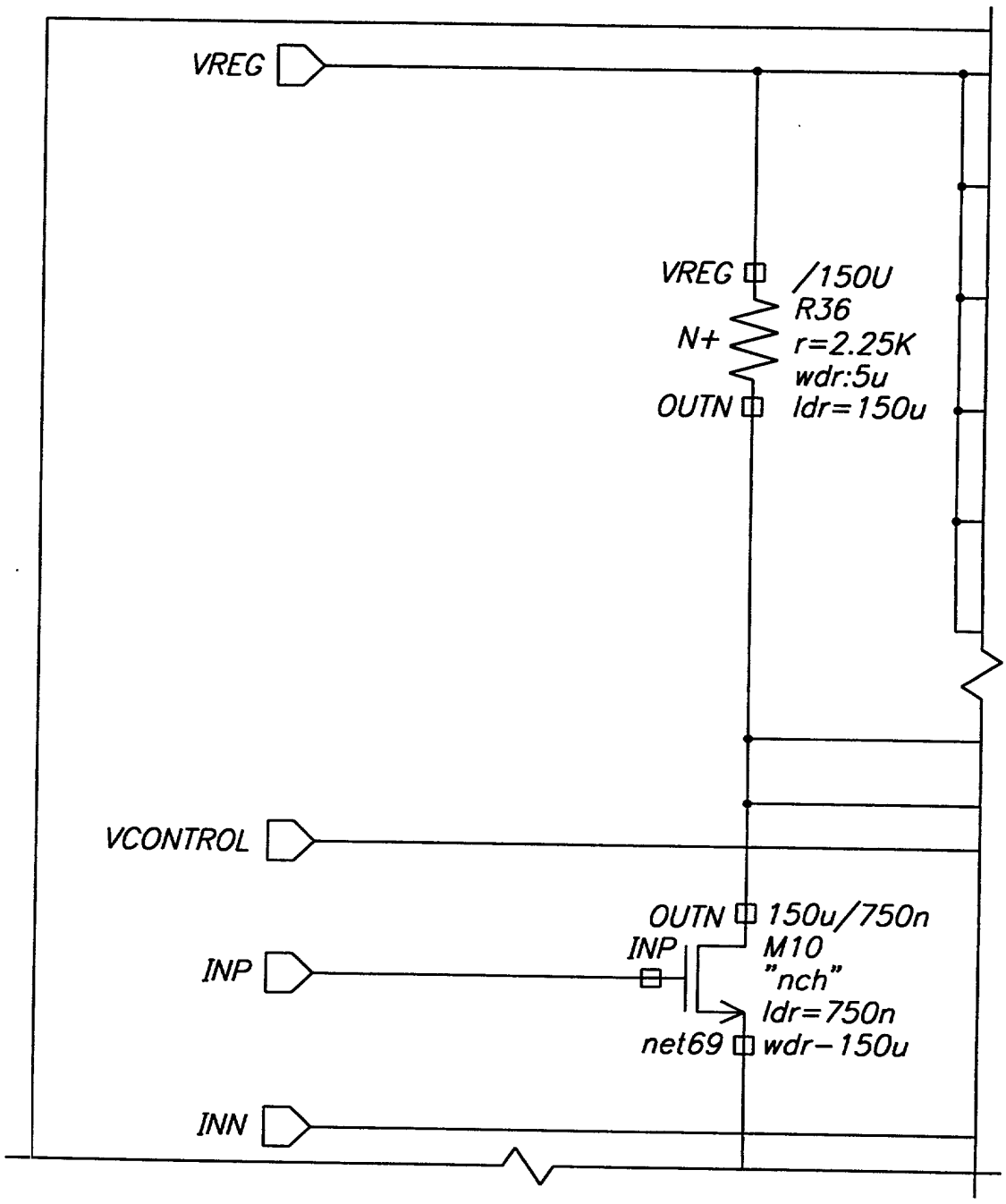


Fig 8.0601040AA

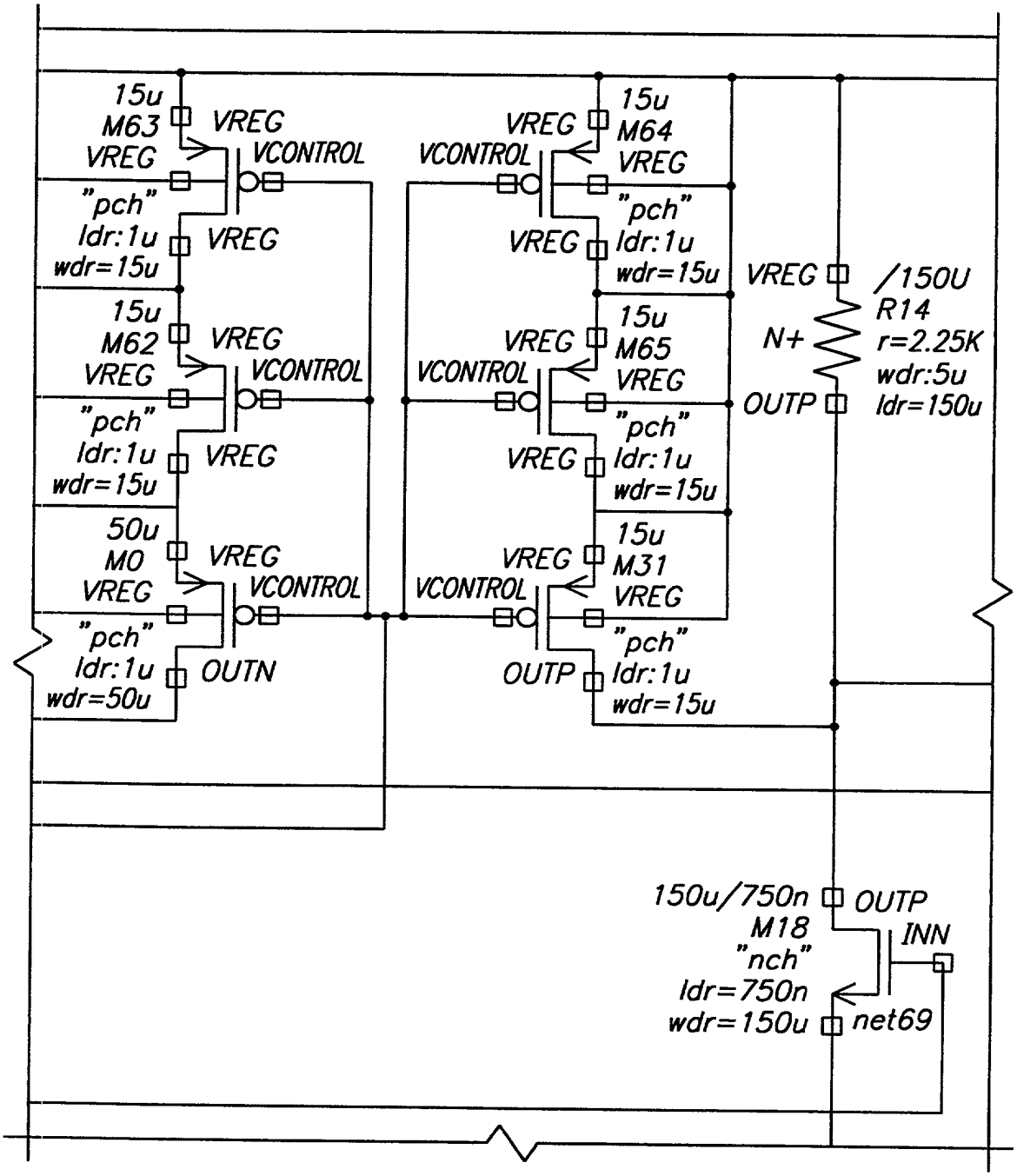


Fig 8,060,110,401,018

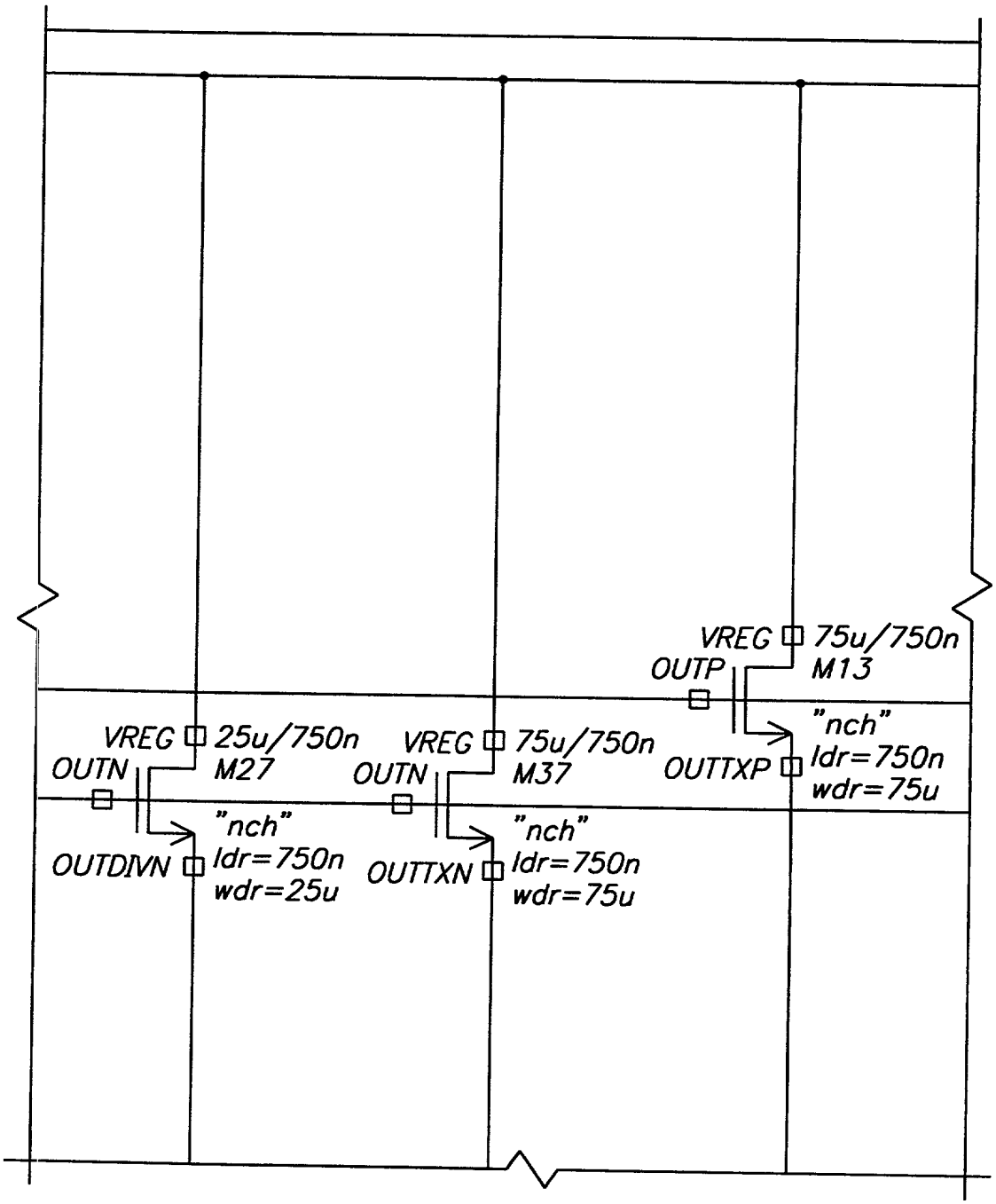


Fig 8.06010401AC

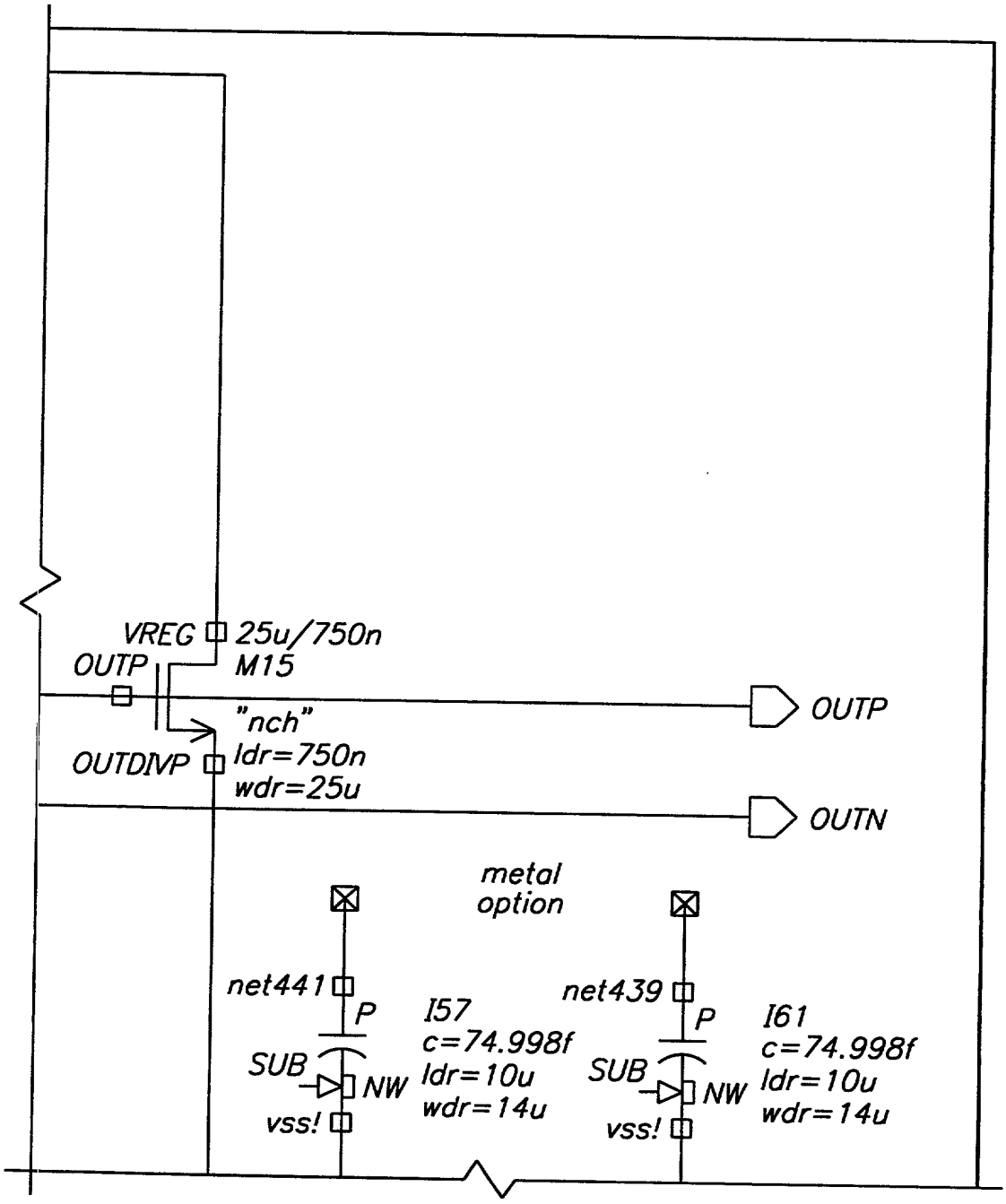


Fig 8.06010401AD

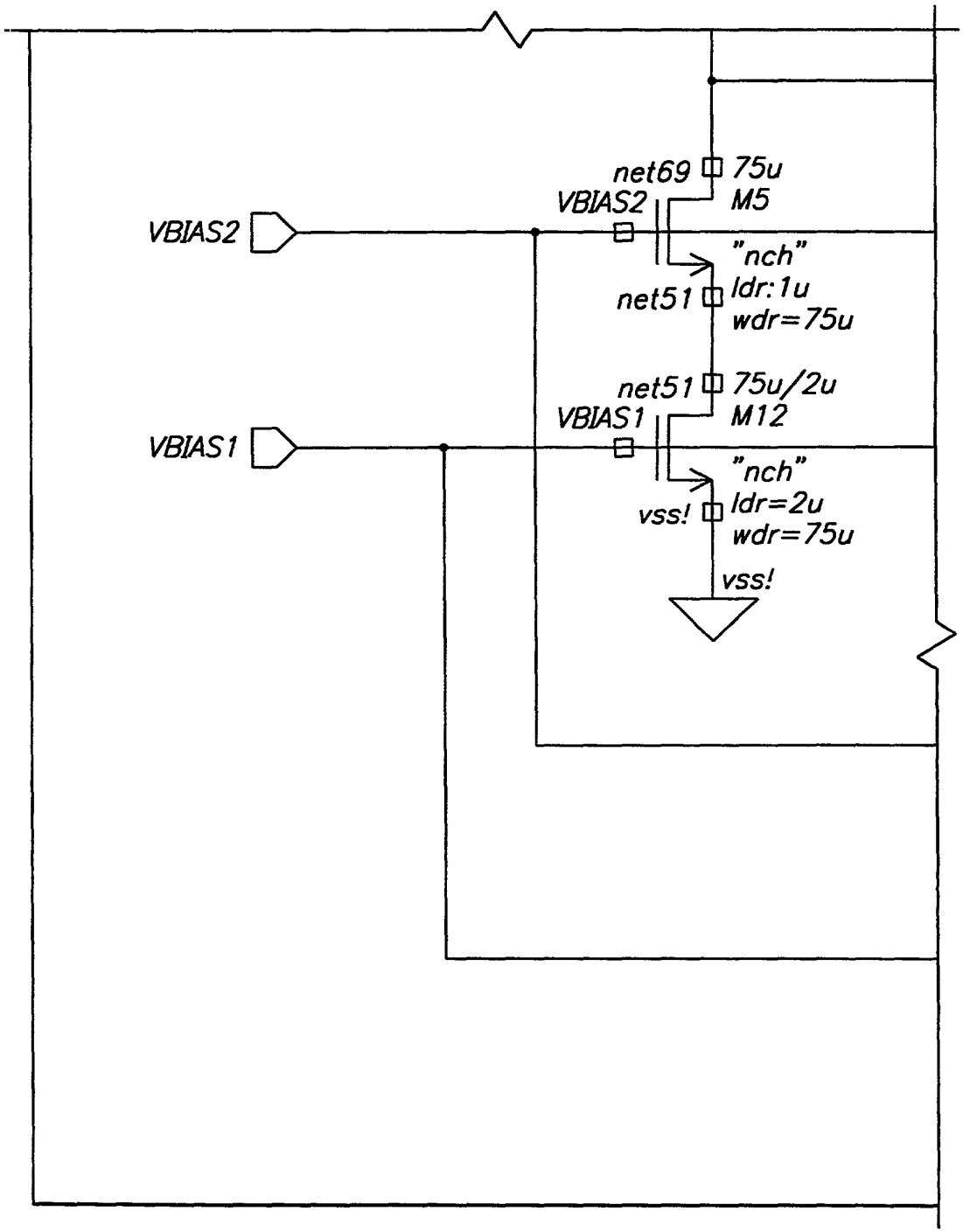


Fig 8.0601040IBA

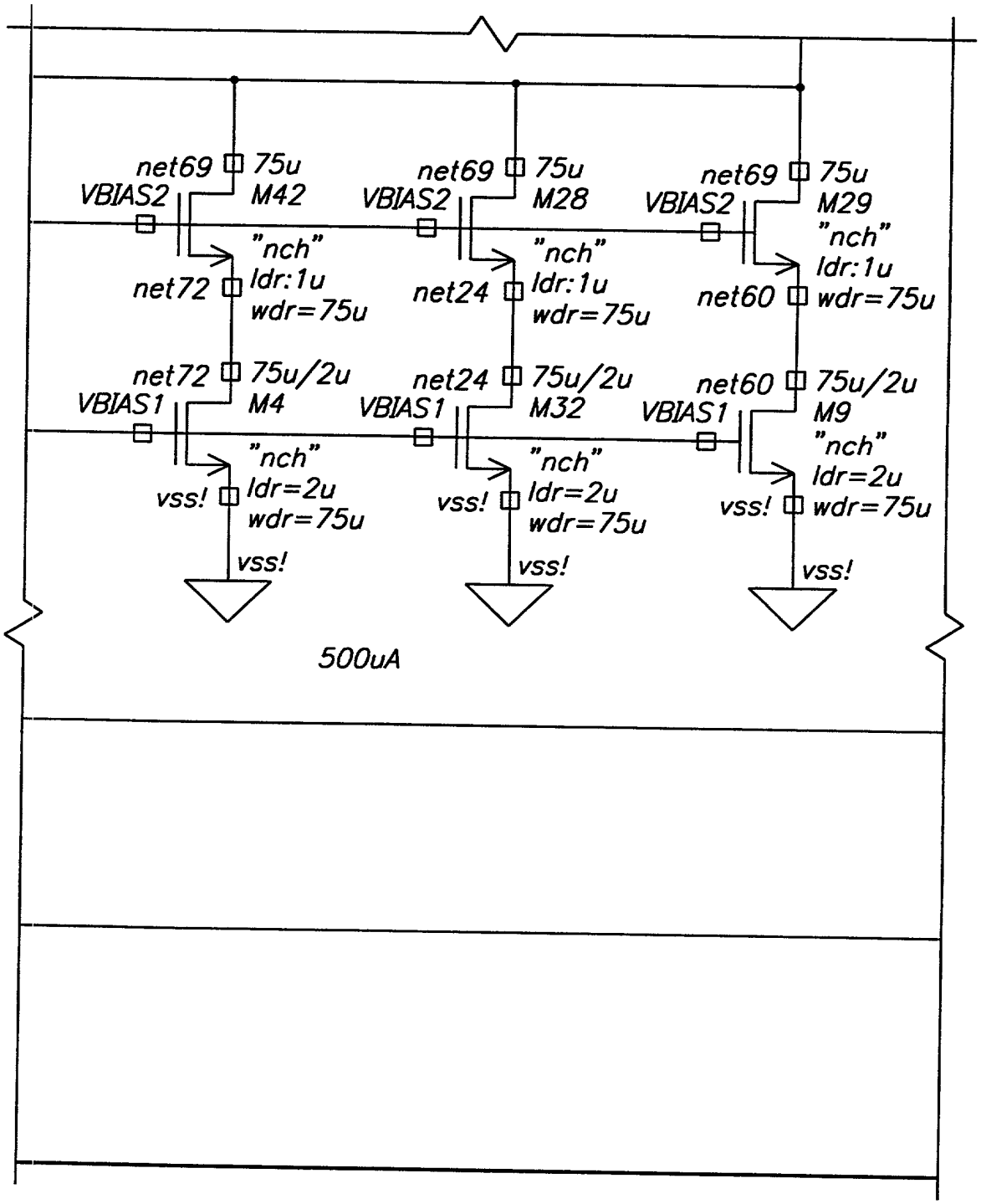


Fig 8.0601040188

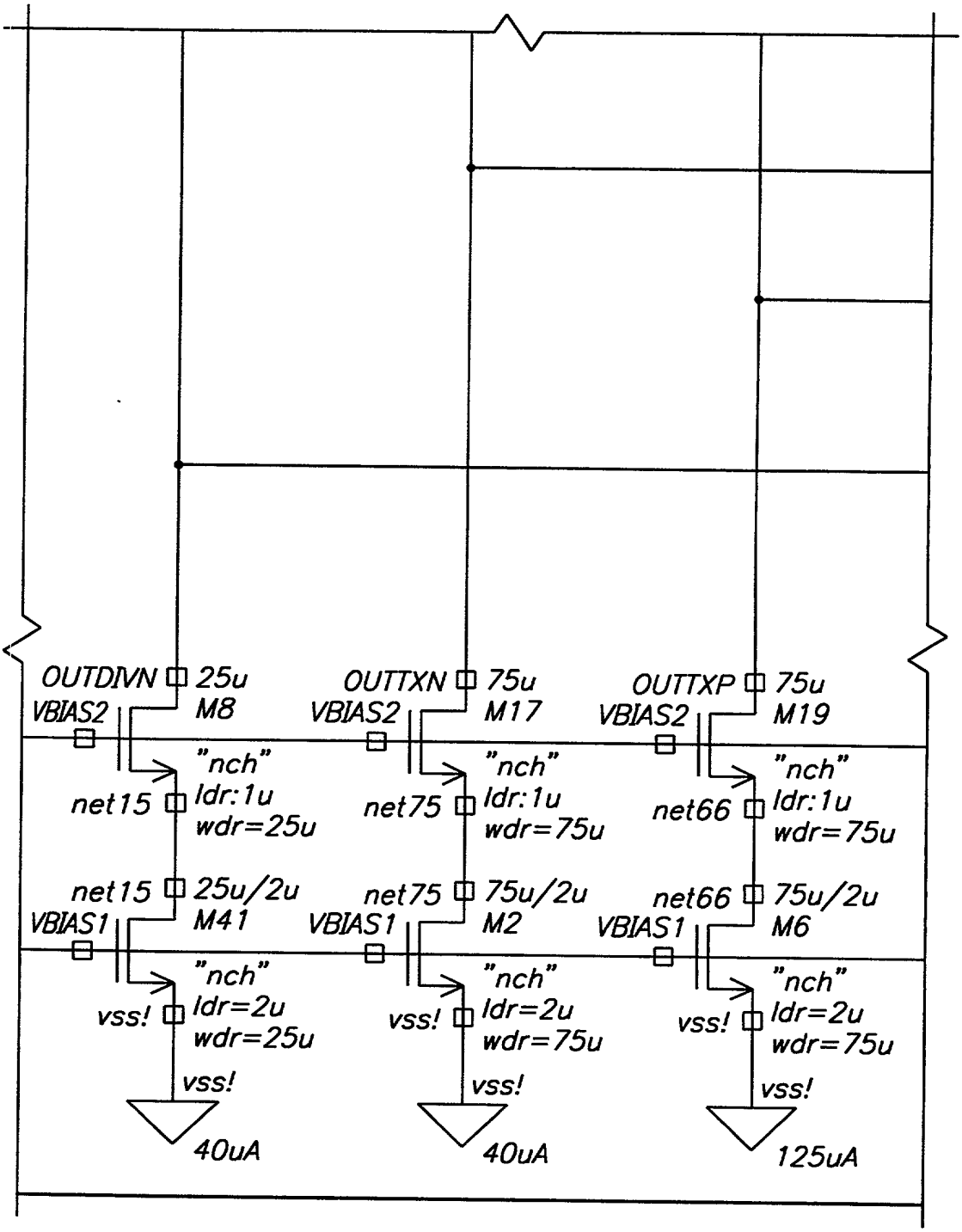


Fig 8.0601040IBC

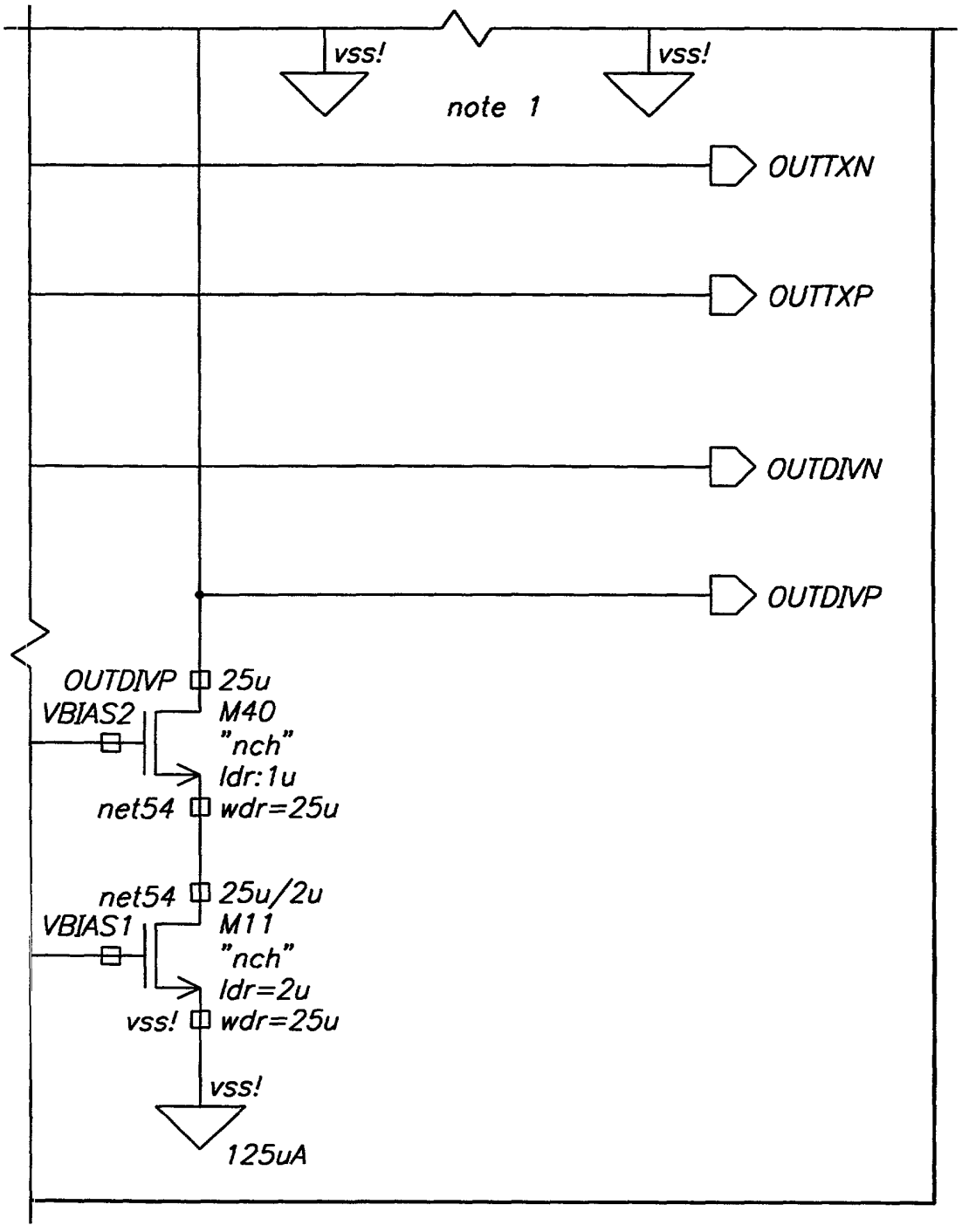


Fig 8.0601104-0018D

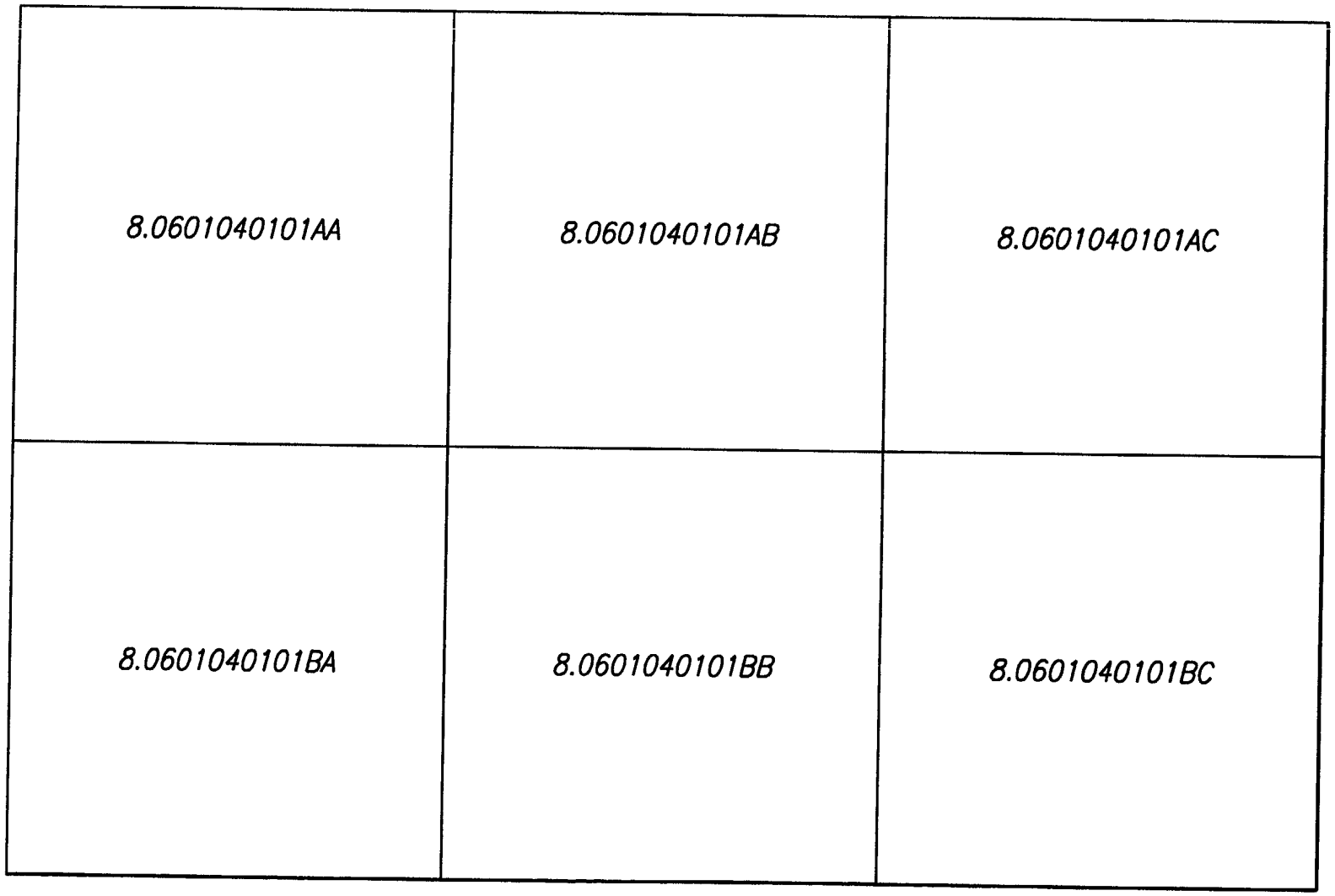


Fig 8.0601040101

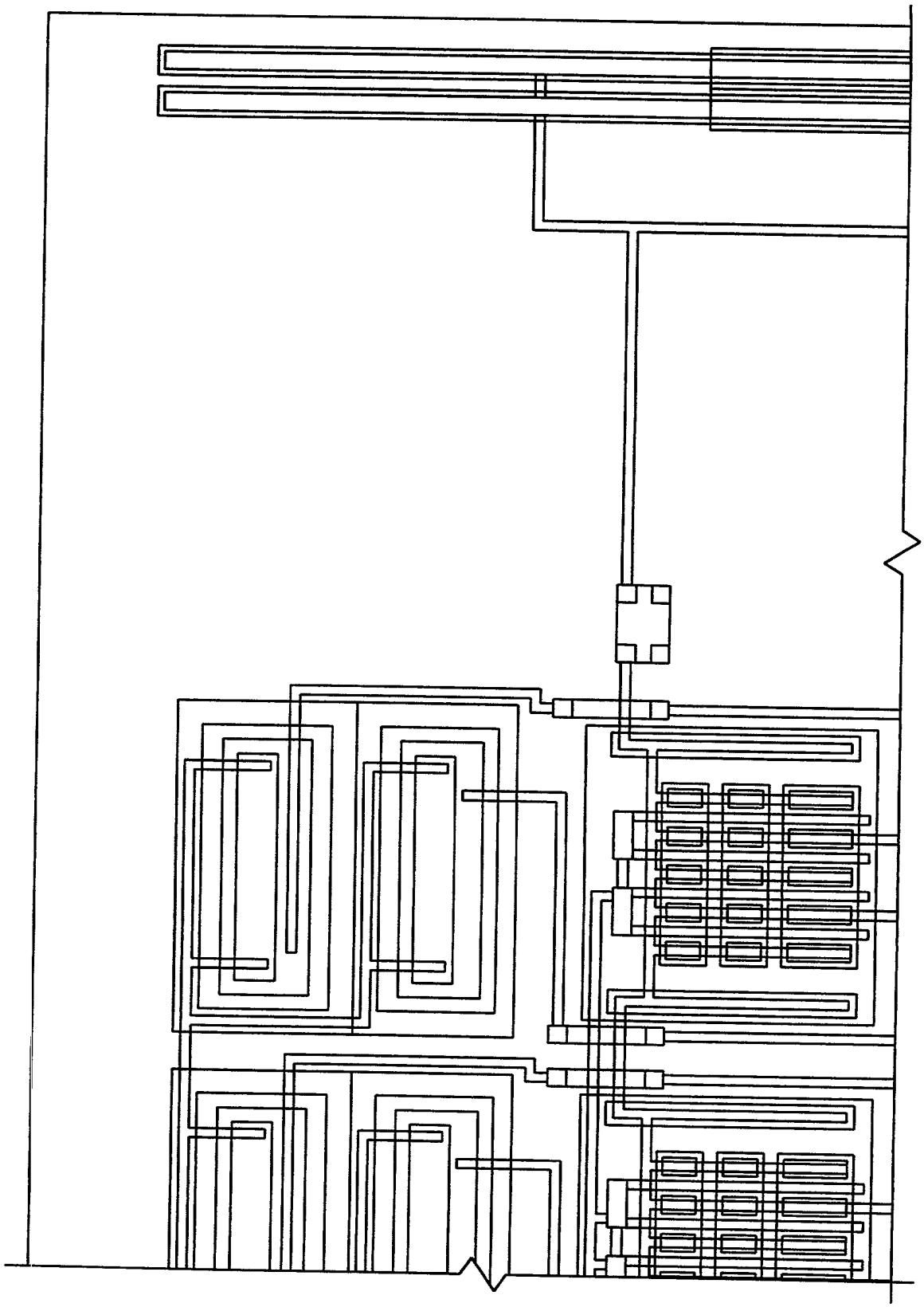


Fig 8.0601104010101AA

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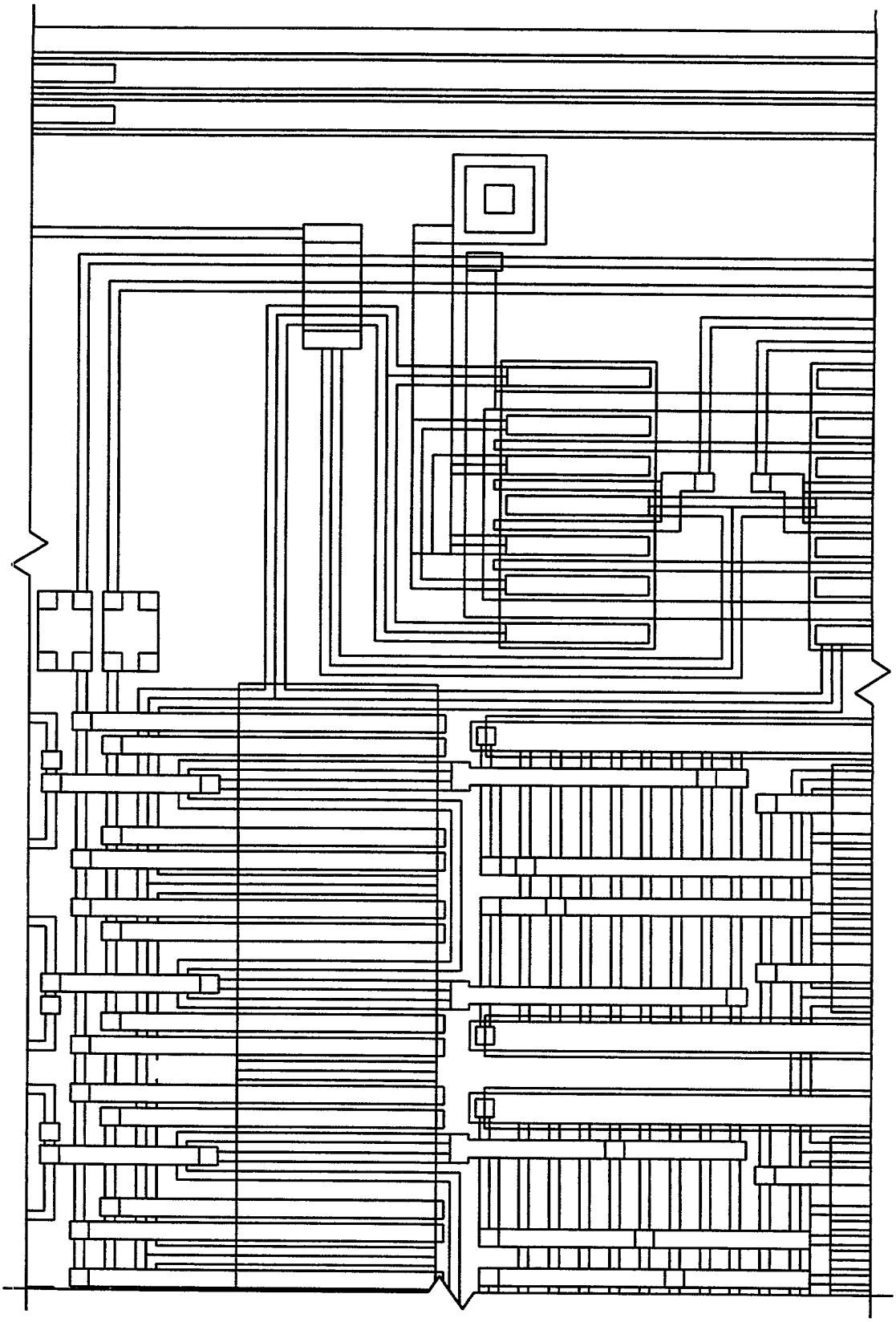


Fig 8.060104010108

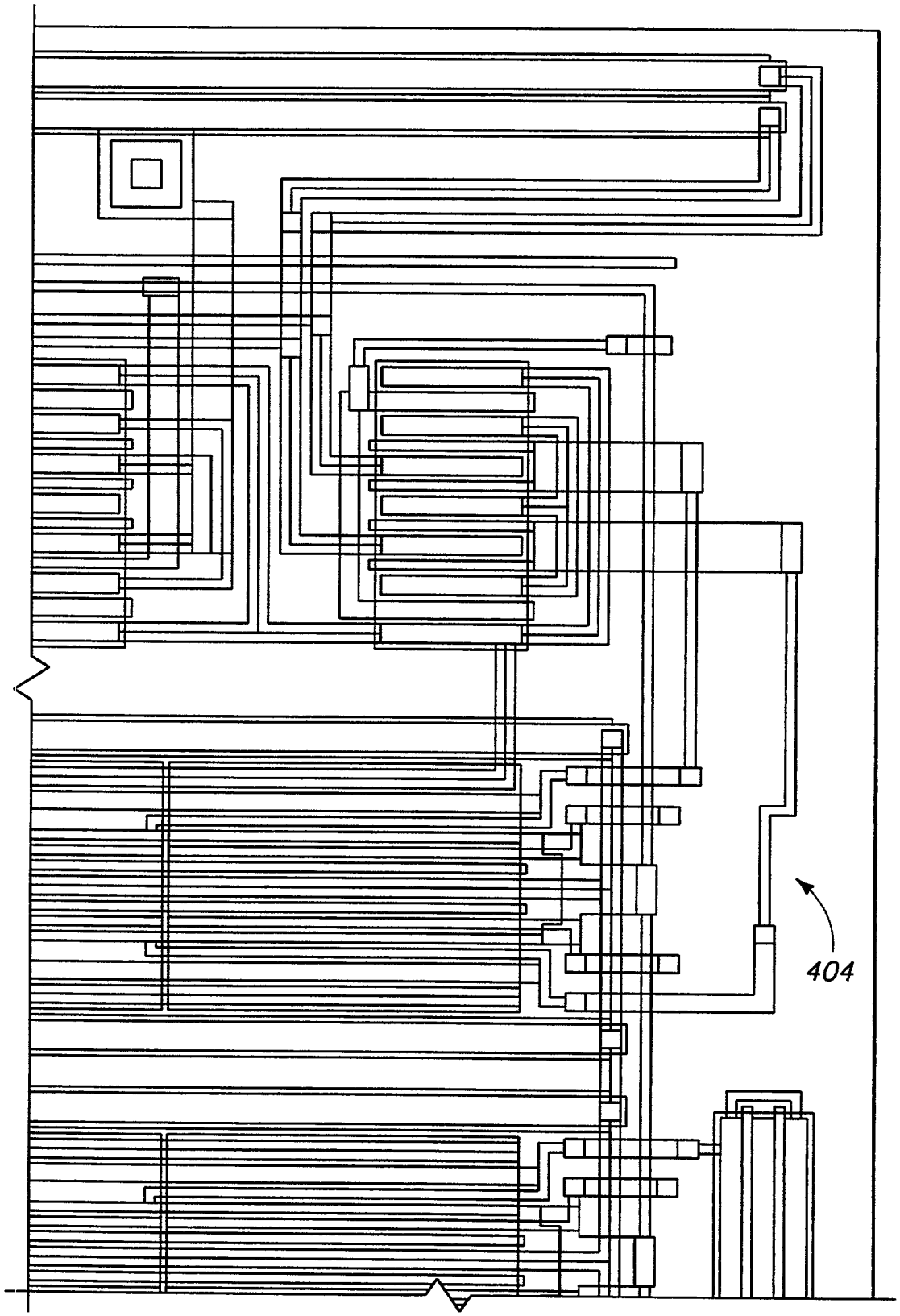


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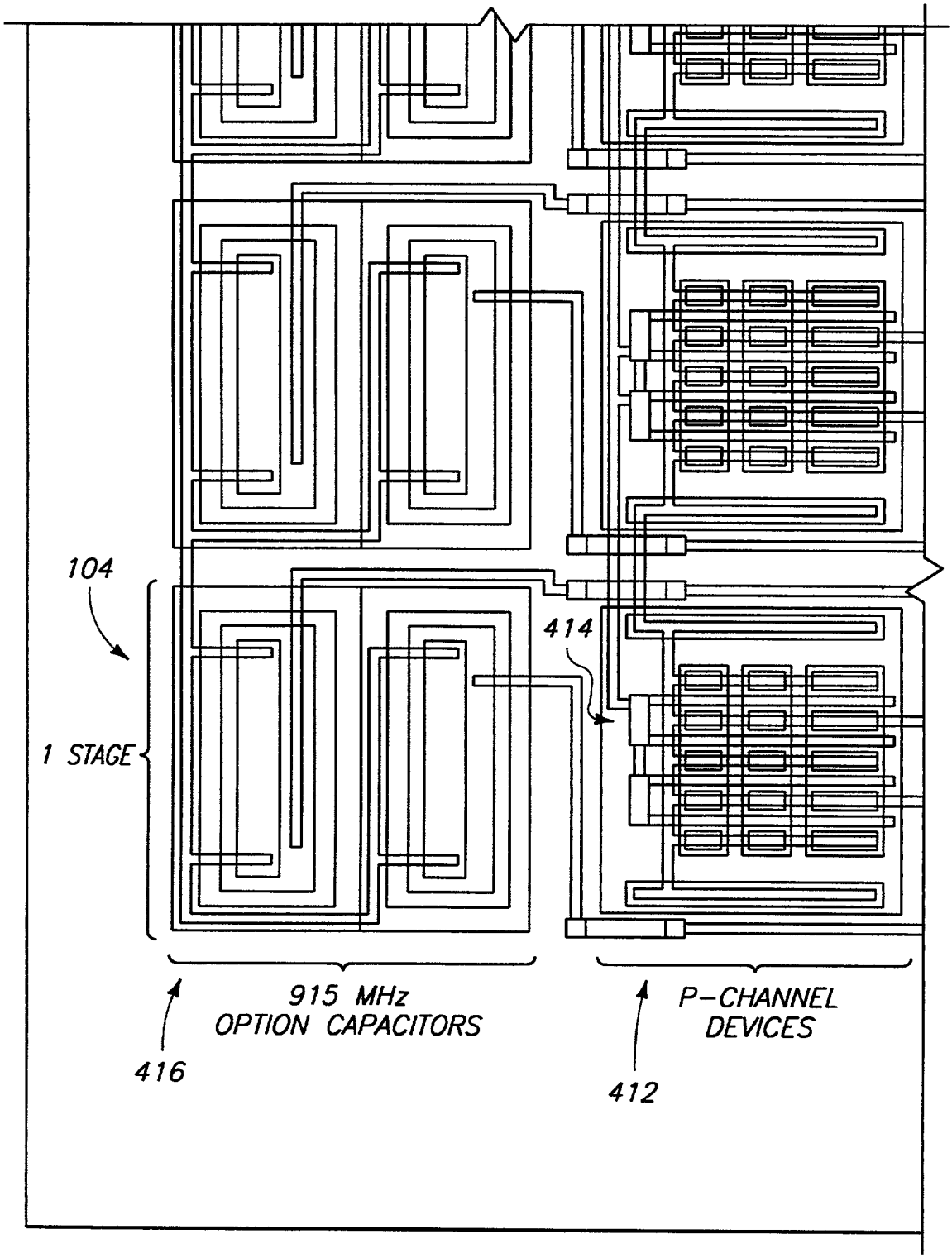


Fig 8.0601040101BA

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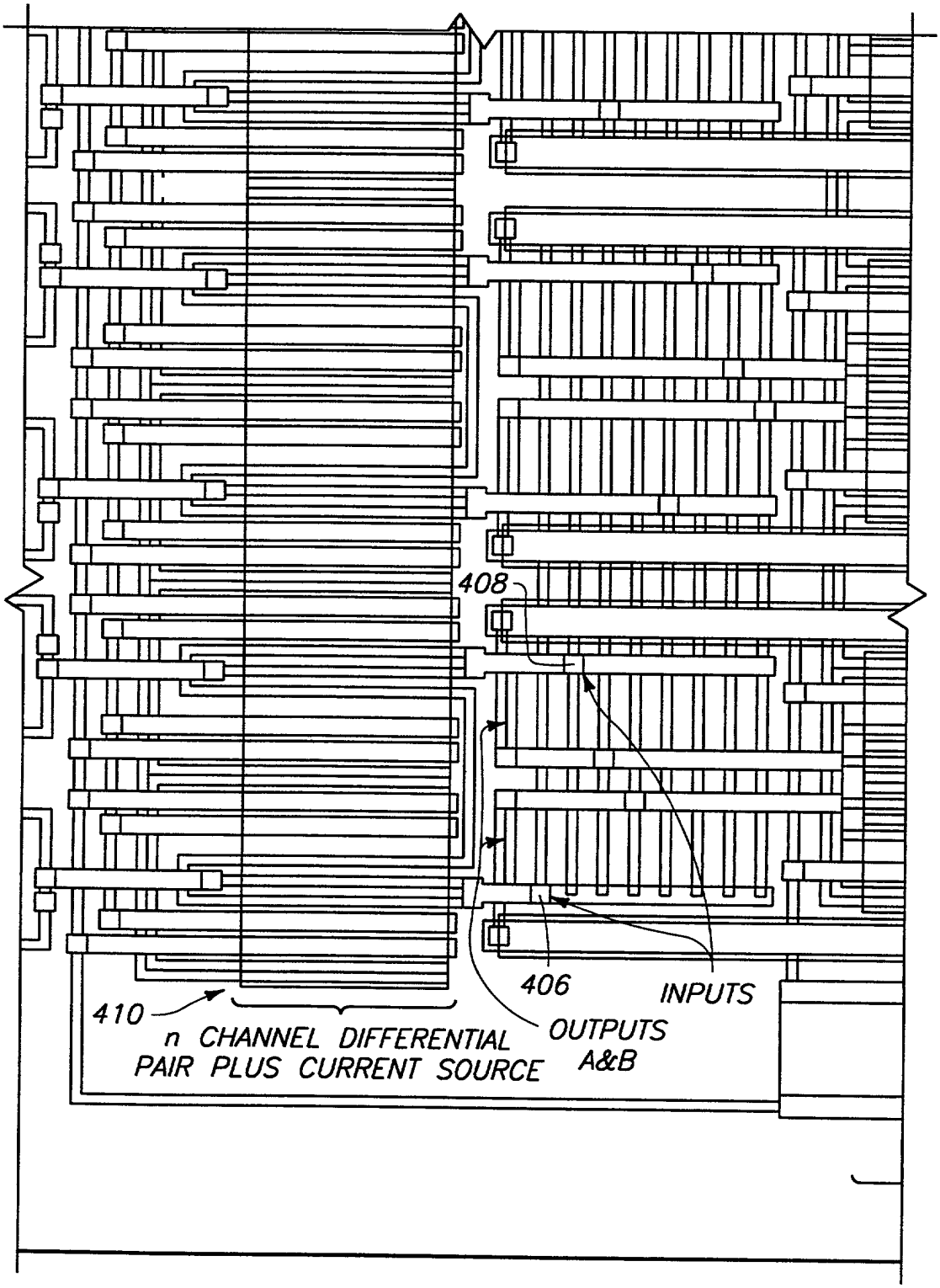


Fig 8.

0962962 1054405.1

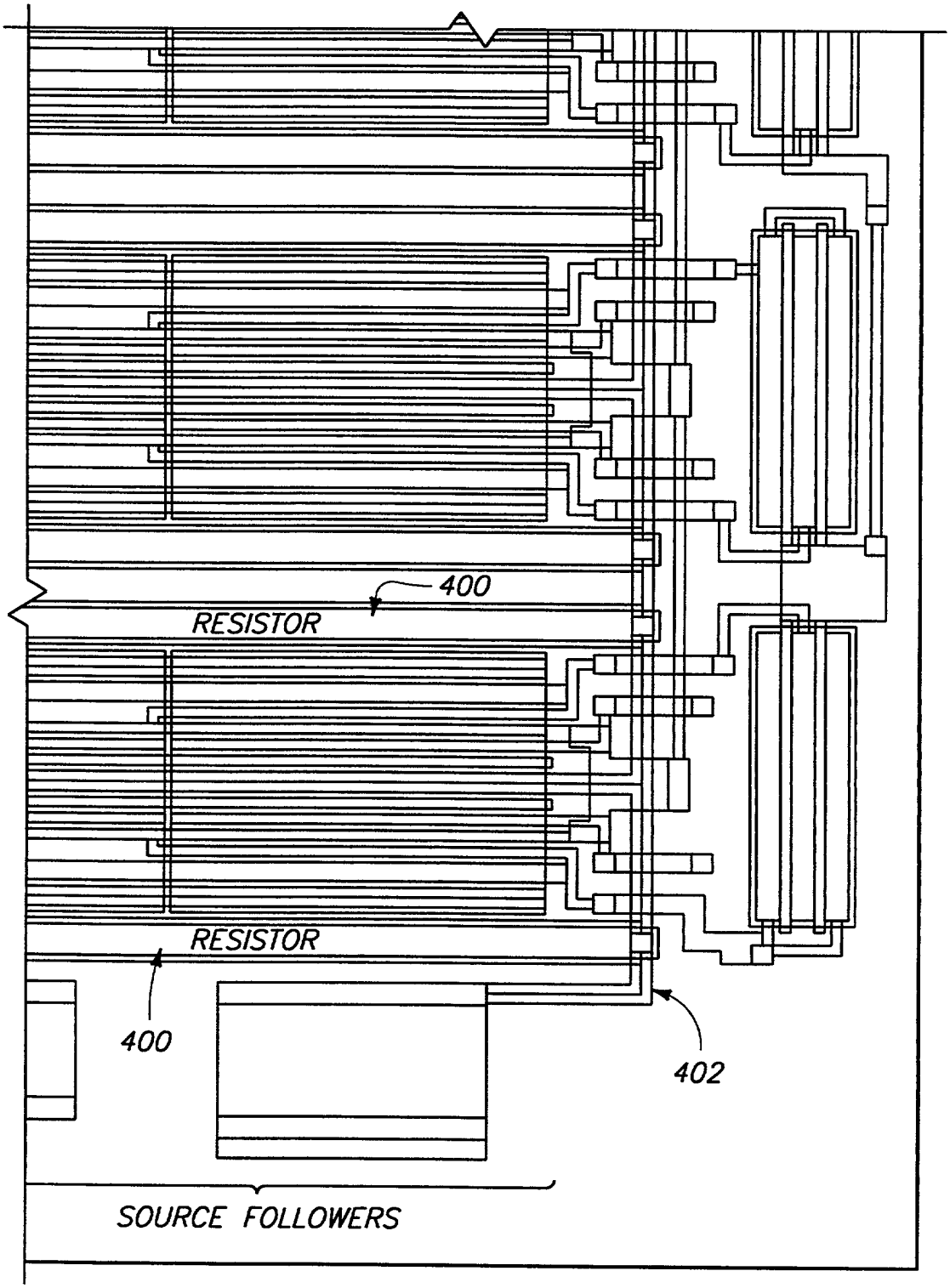


Fig 8.0601040101BC

8.060105AA	8.060105AB	8.060105AC	8.060105AD
8.060105BA	8.060105BB	8.060105BC	8.060105BD
8.060105CA	8.060105CB	8.060105CC	8.060105CD
8.060105DA	8.060105DB	8.060105DC	8.060105DD

Fig 8.060105

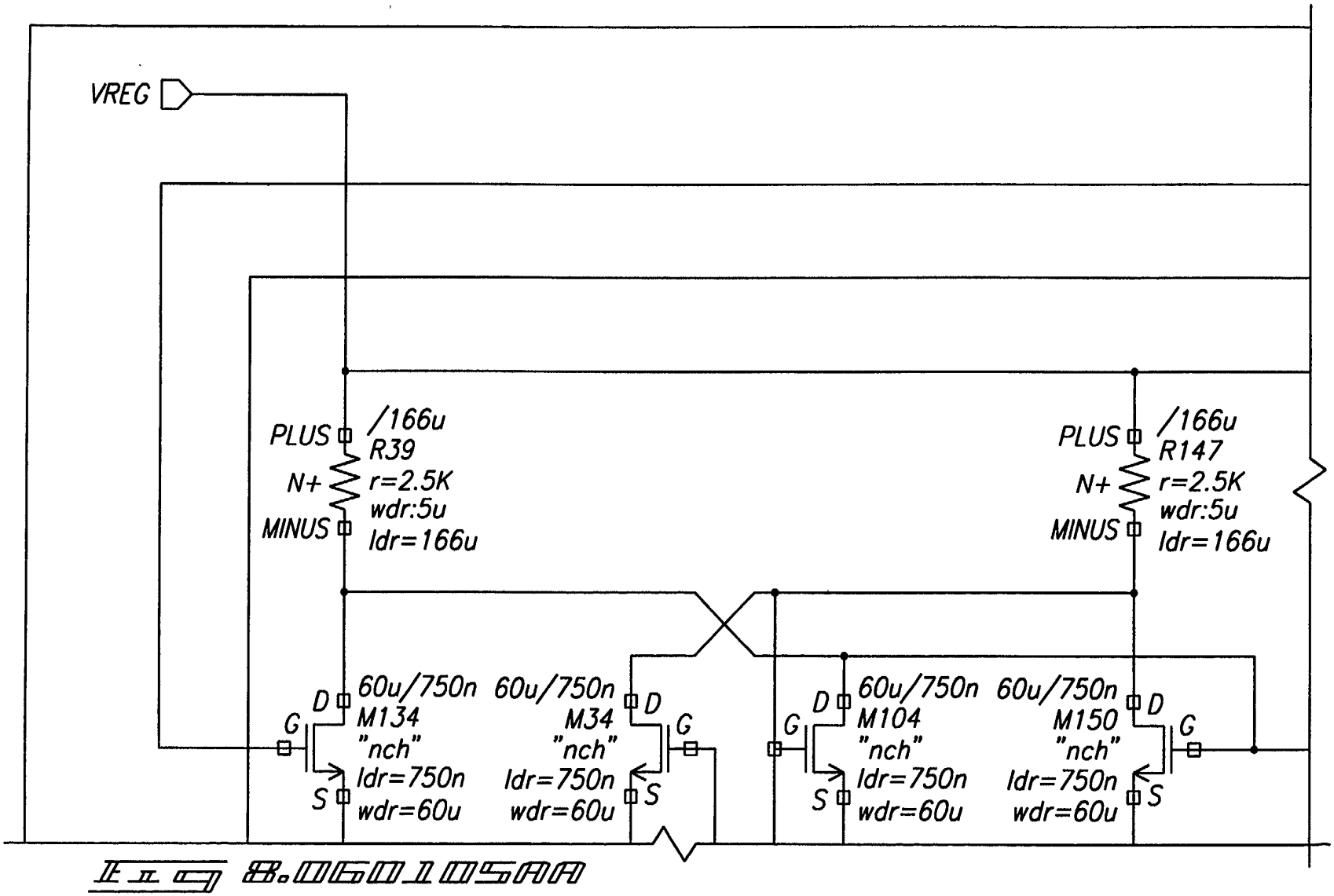


Fig 8.060105AA

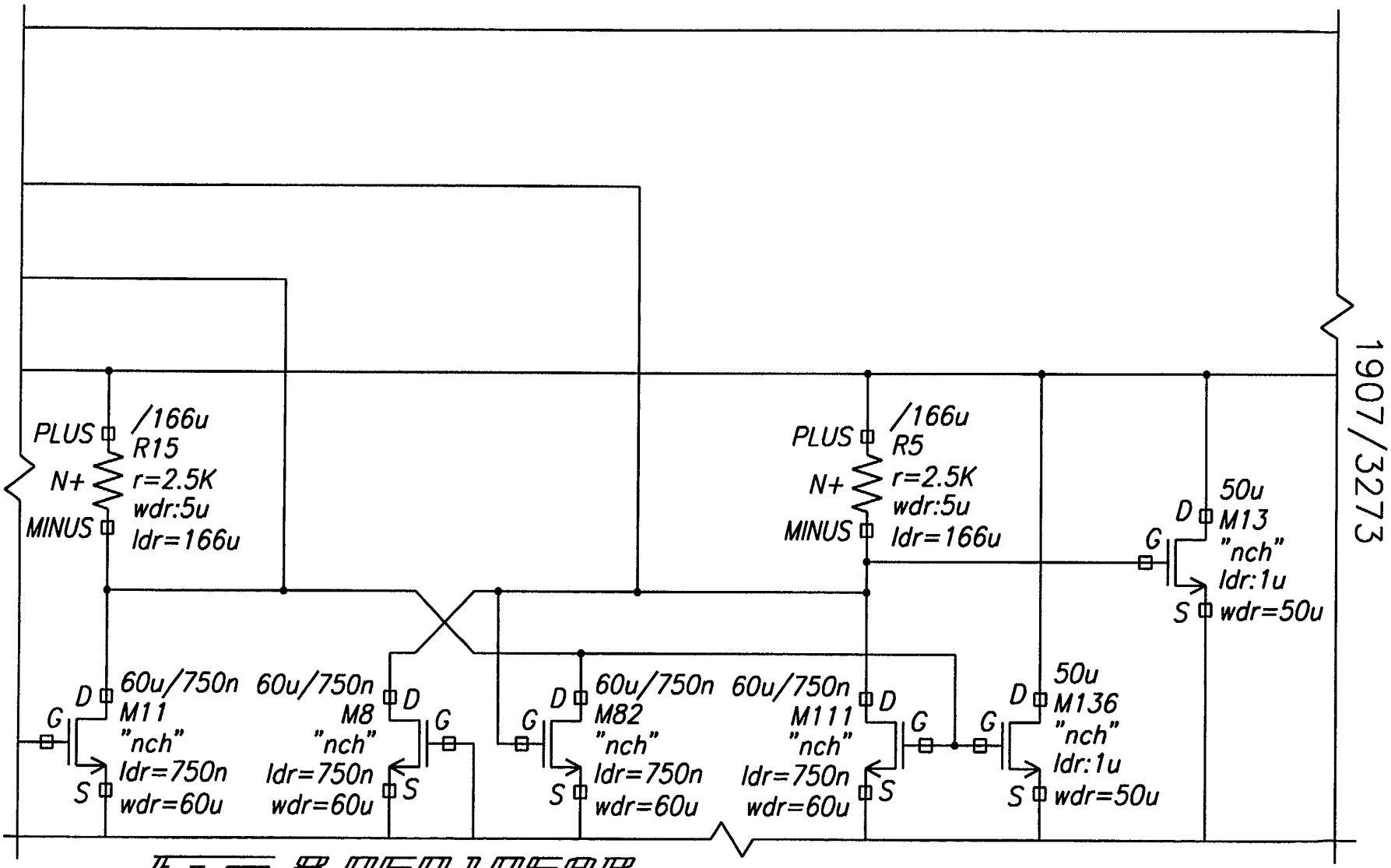


Fig 8.060105AB

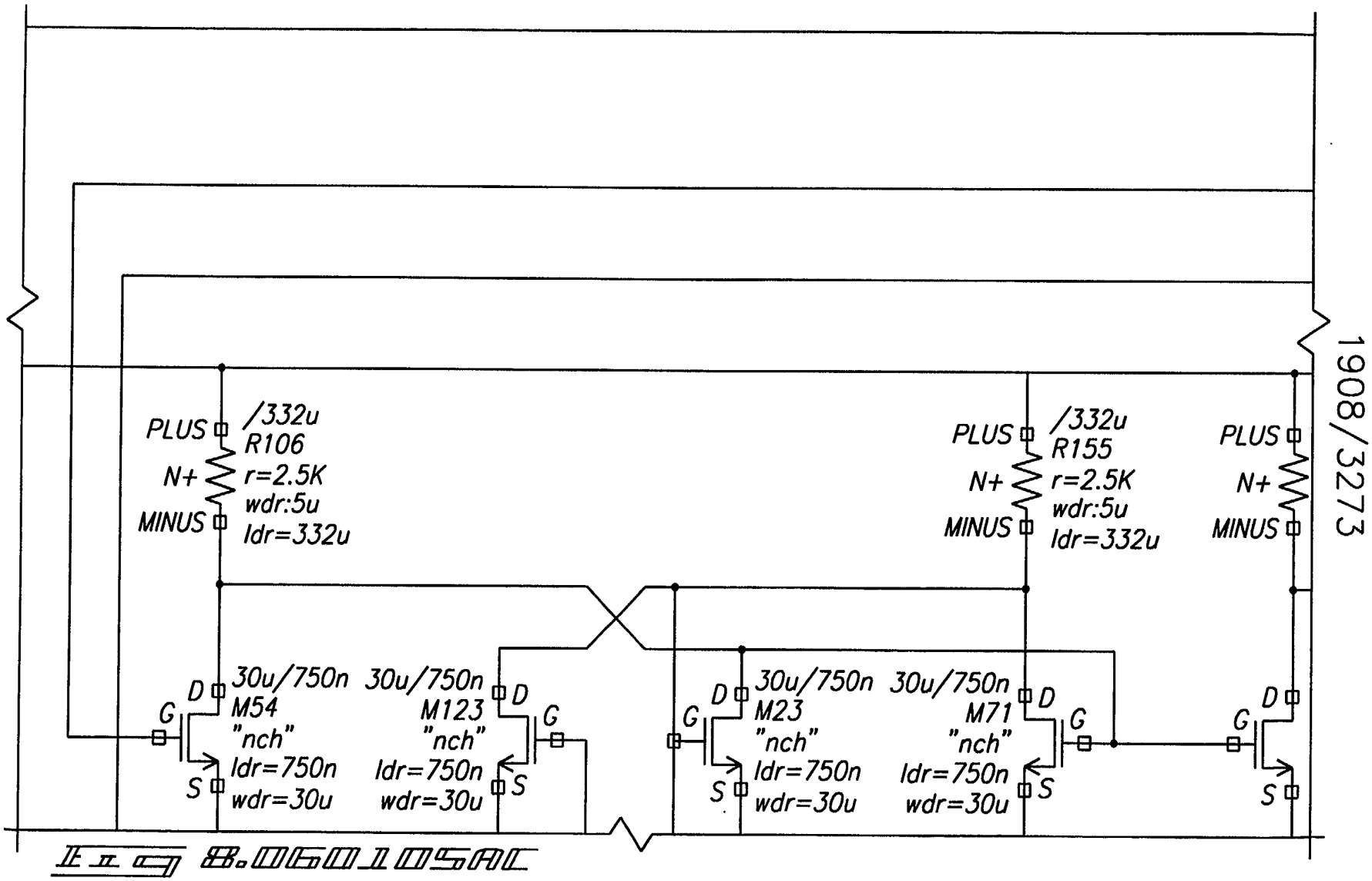
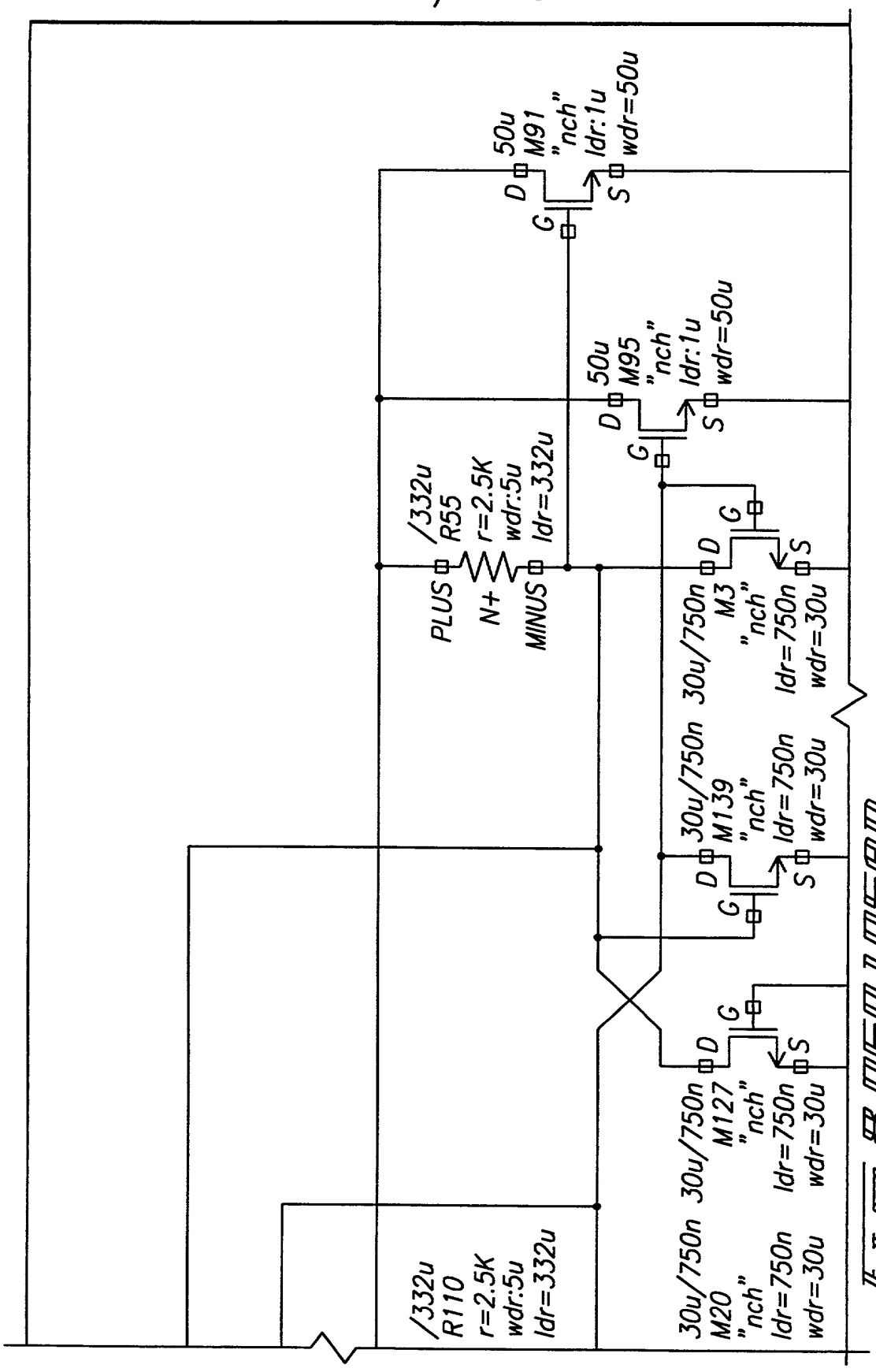
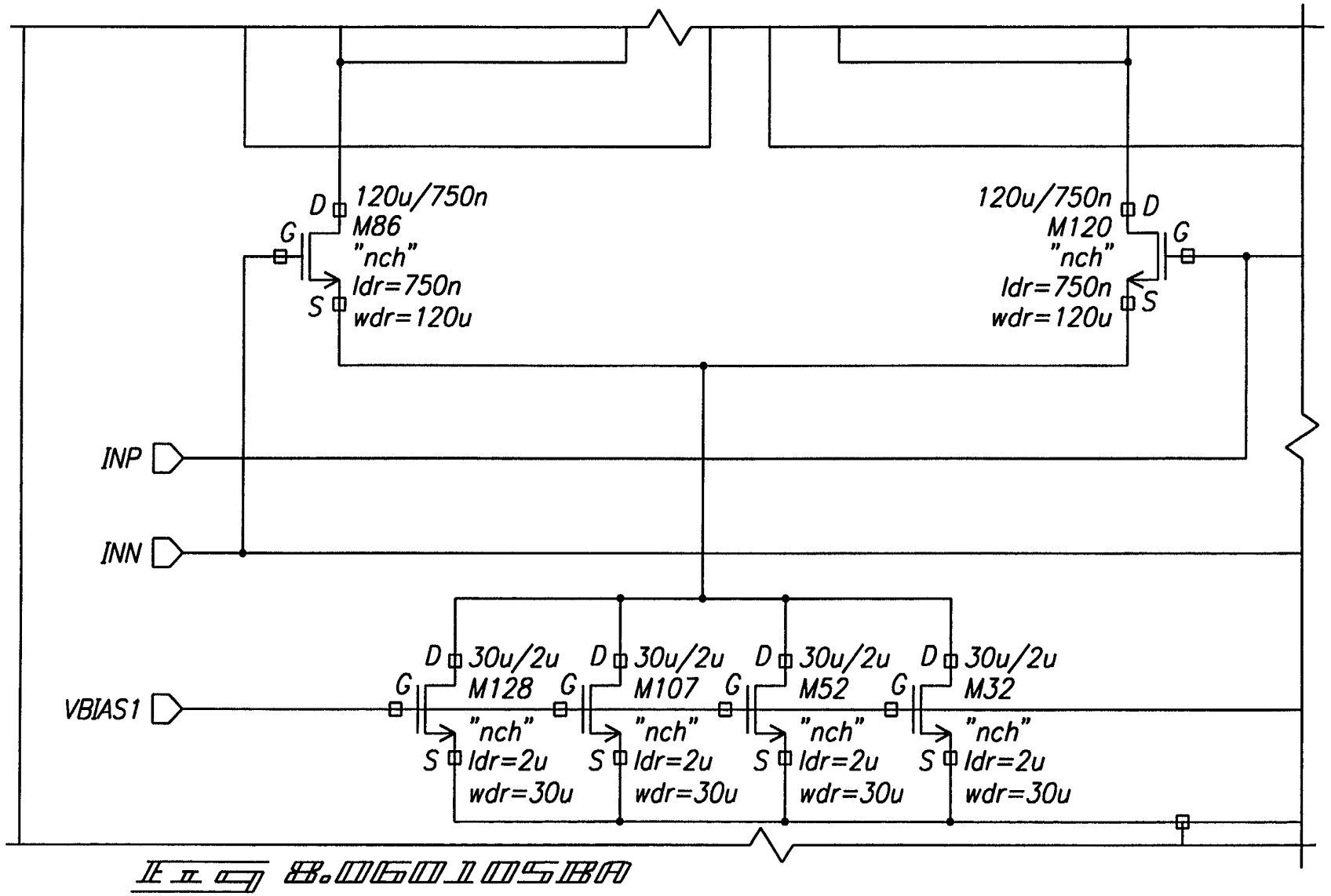


Fig 8.0601050AC


/332u
R110
r=2.5K
wdr:5u
ldr=332u
30u/750n
M20
"nch"
ldr=750n
wdr=30u
30u/750n
M127
"nch"
ldr=750n
wdr=30u
30u/750n
M139
"nch"
ldr=750n
wdr=30u
30u/750n
M3
"nch"
ldr=750n
wdr=30u
/332u
R55
r=2.5K
wdr:5u
ldr=332u
PLUS
N+
MINUS
50u
M95
"nch"
ldr:1u
wdr=50u
50u
M91
"nch"
ldr:1u
wdr=50u
D
G
S
ВЫХОД ОУ

ТОТ90 E9023860



1910/3273

Ед 88.0601058А

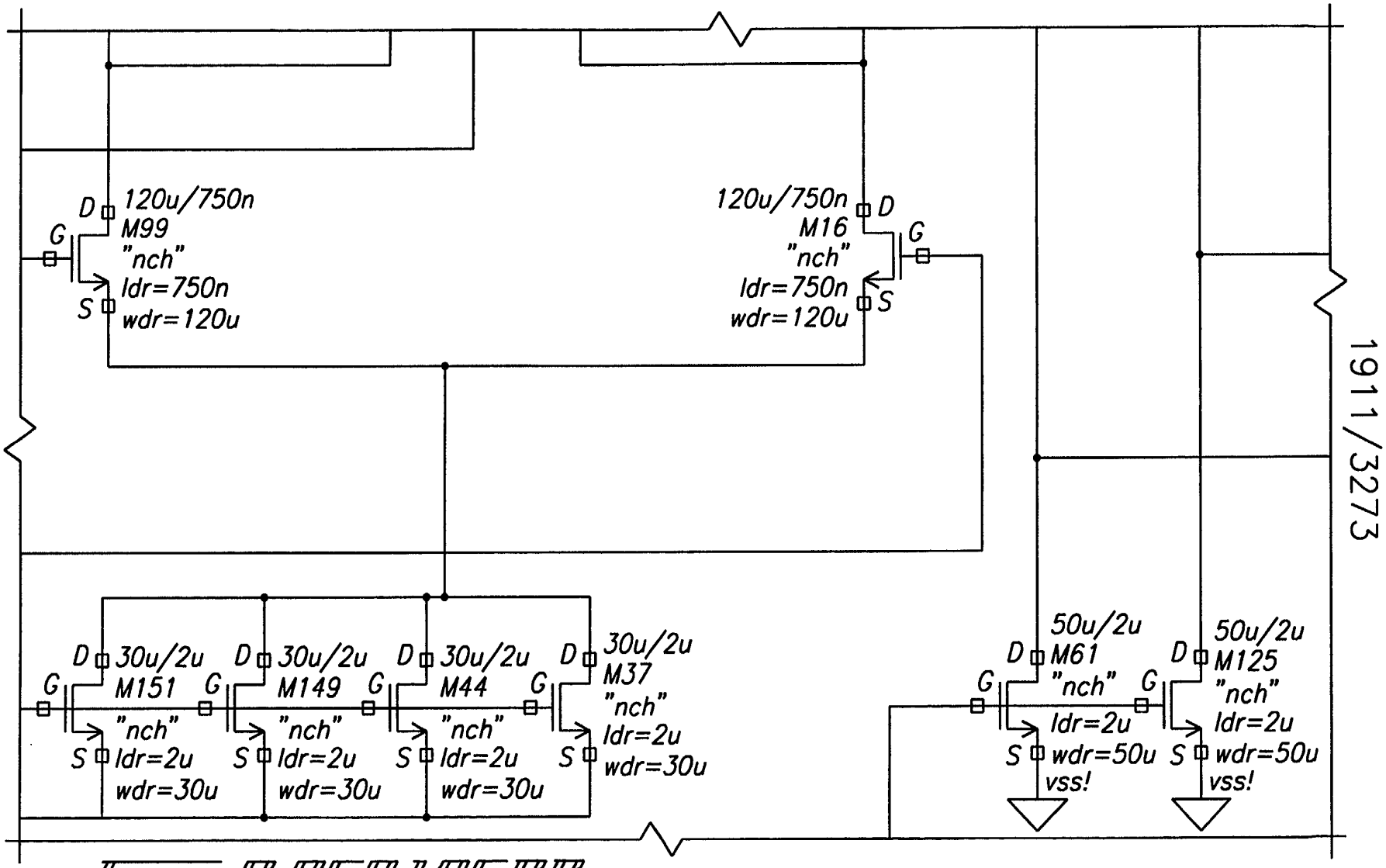


Fig 8,060105BB

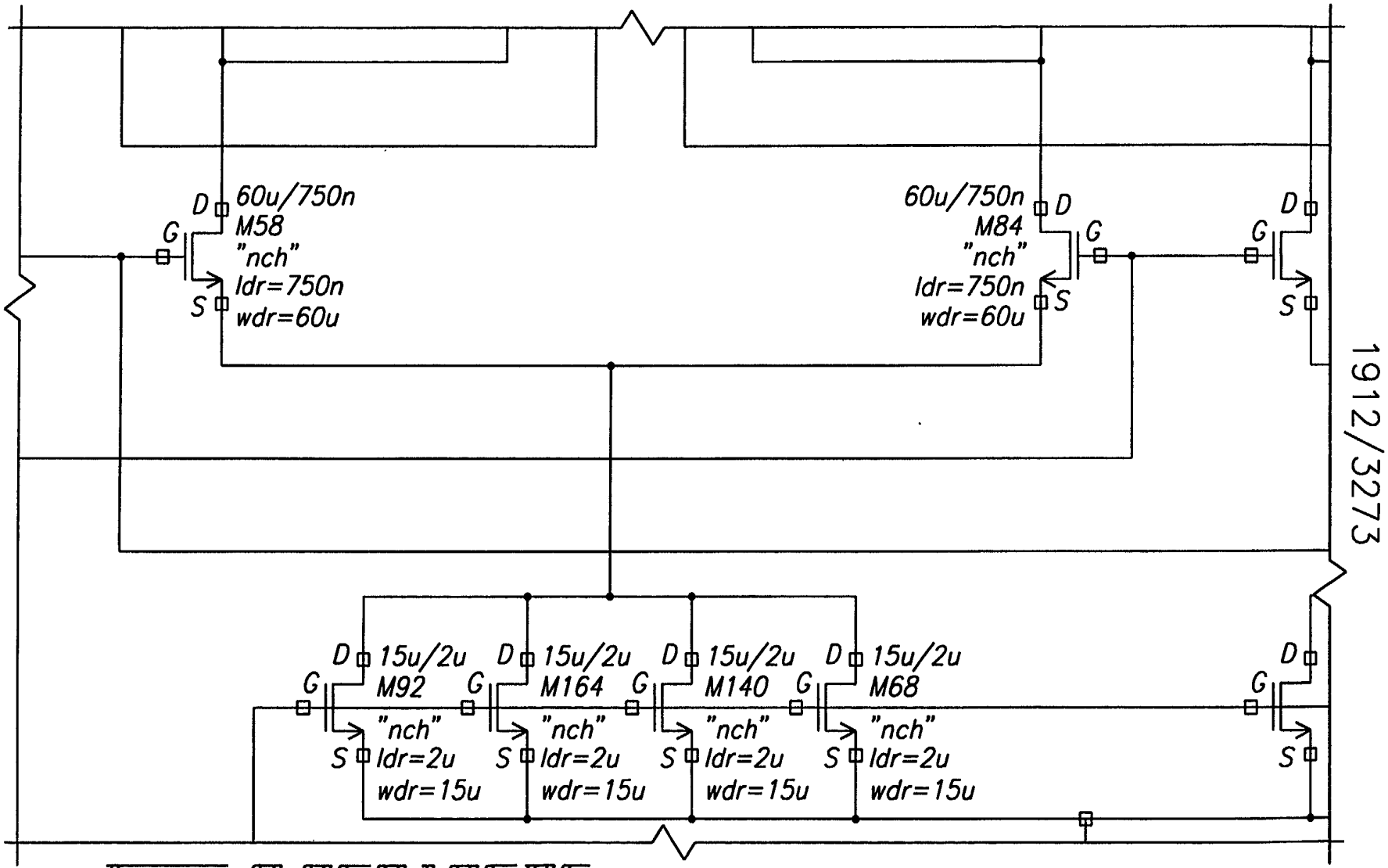


Fig 8.0601058C

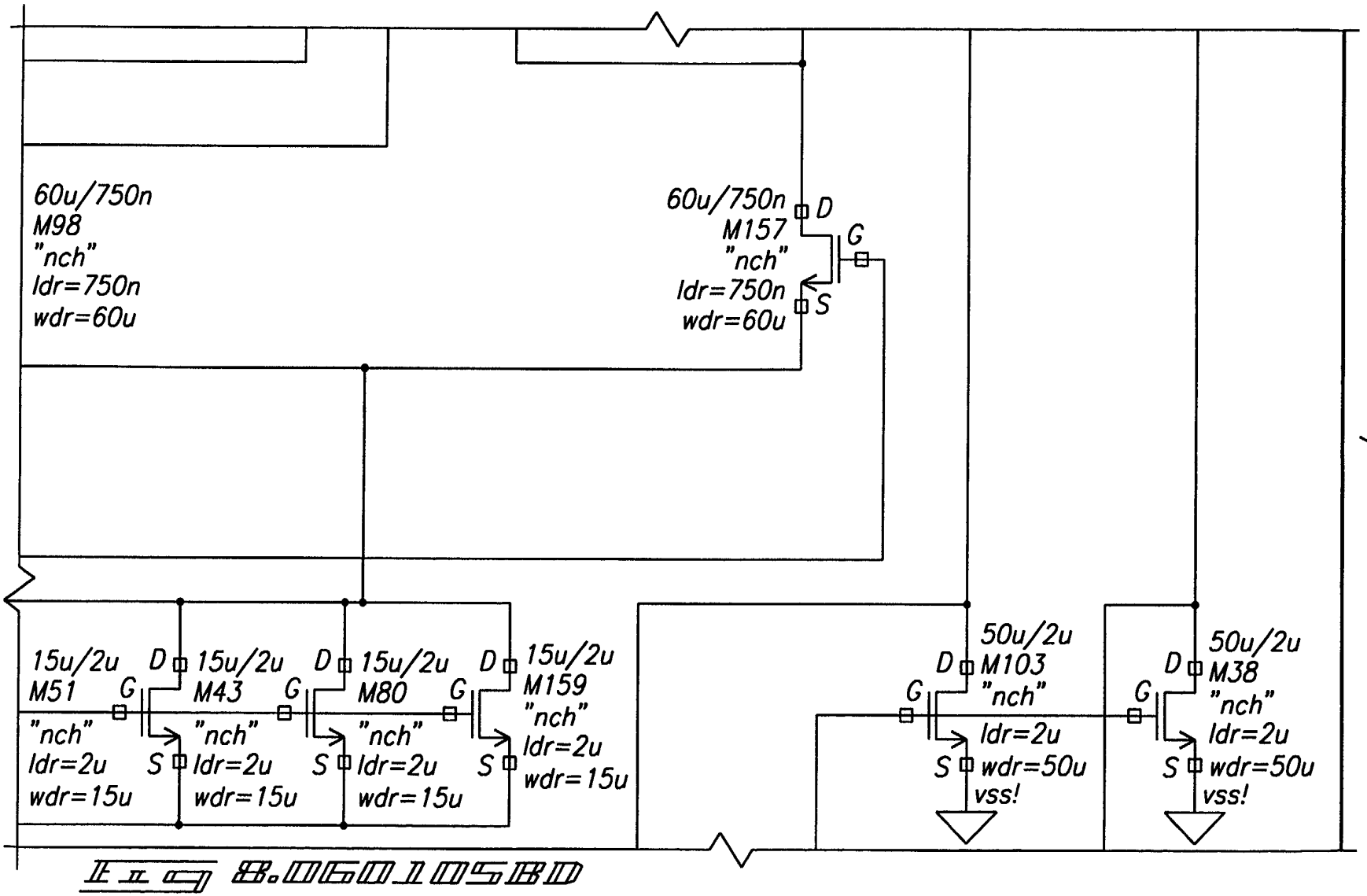
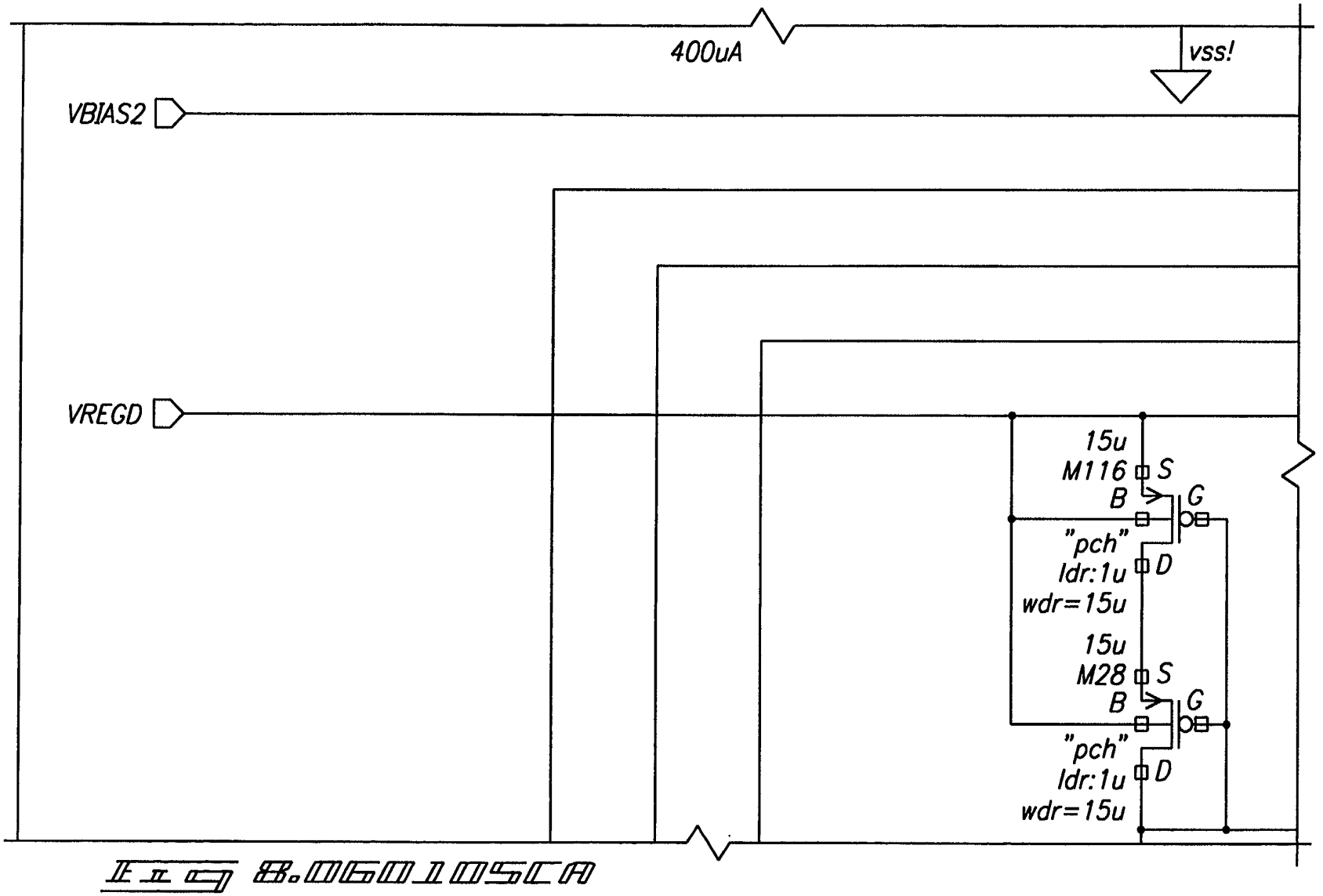


Fig 8.060105BD



1914/3273

Fig 88.0601050A

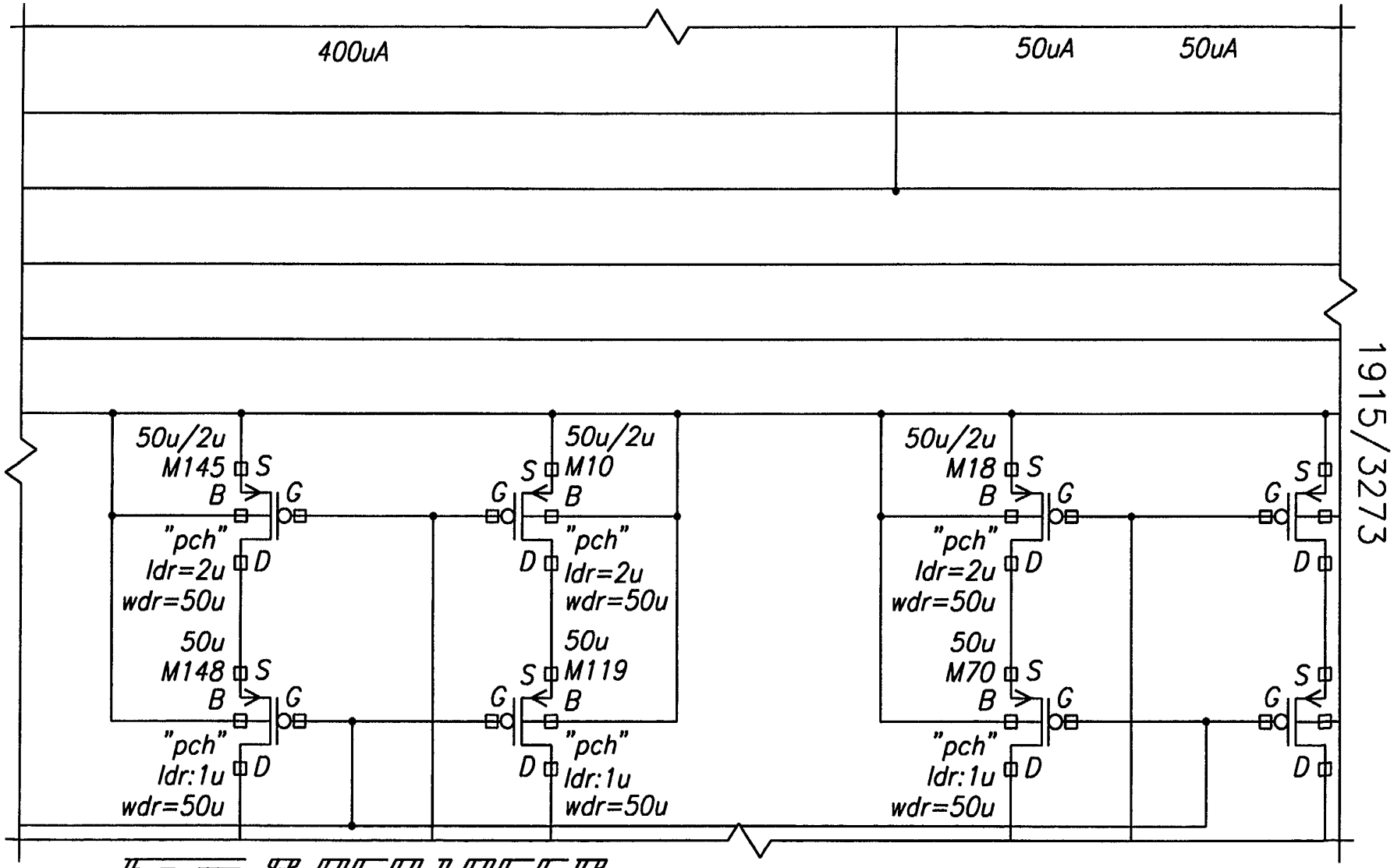


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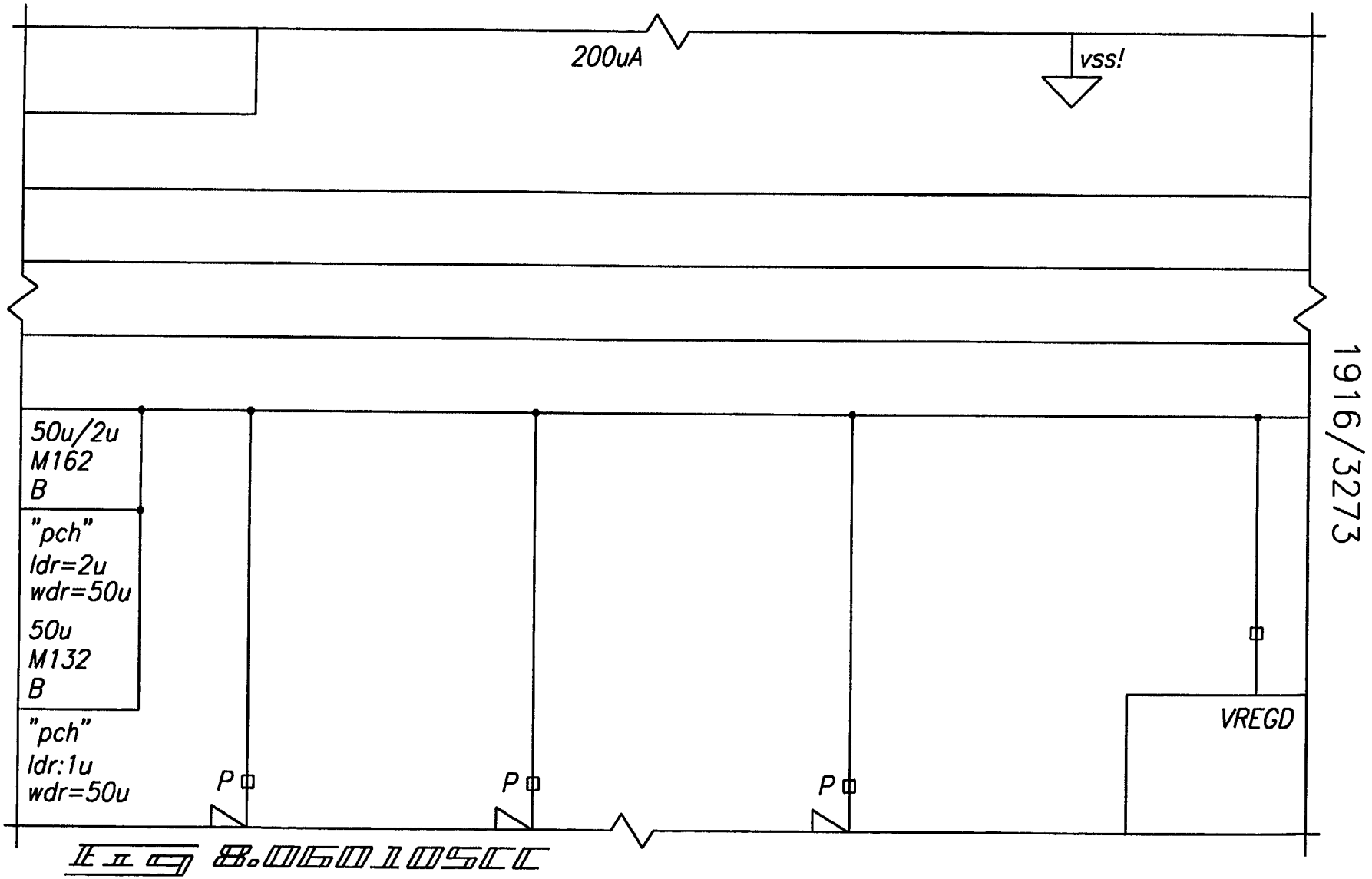


Fig 8.060105CC

T0T190' E90228860

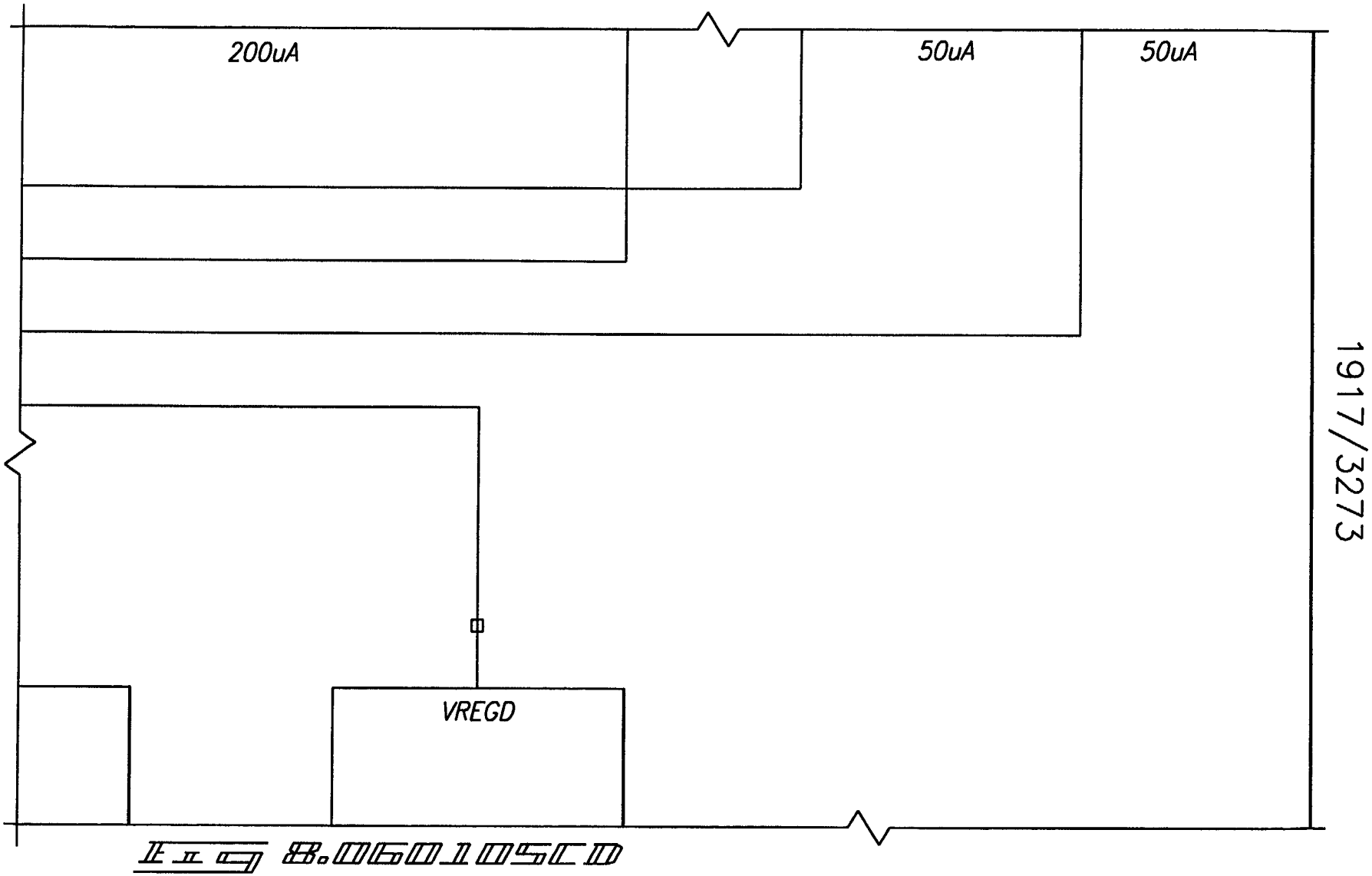
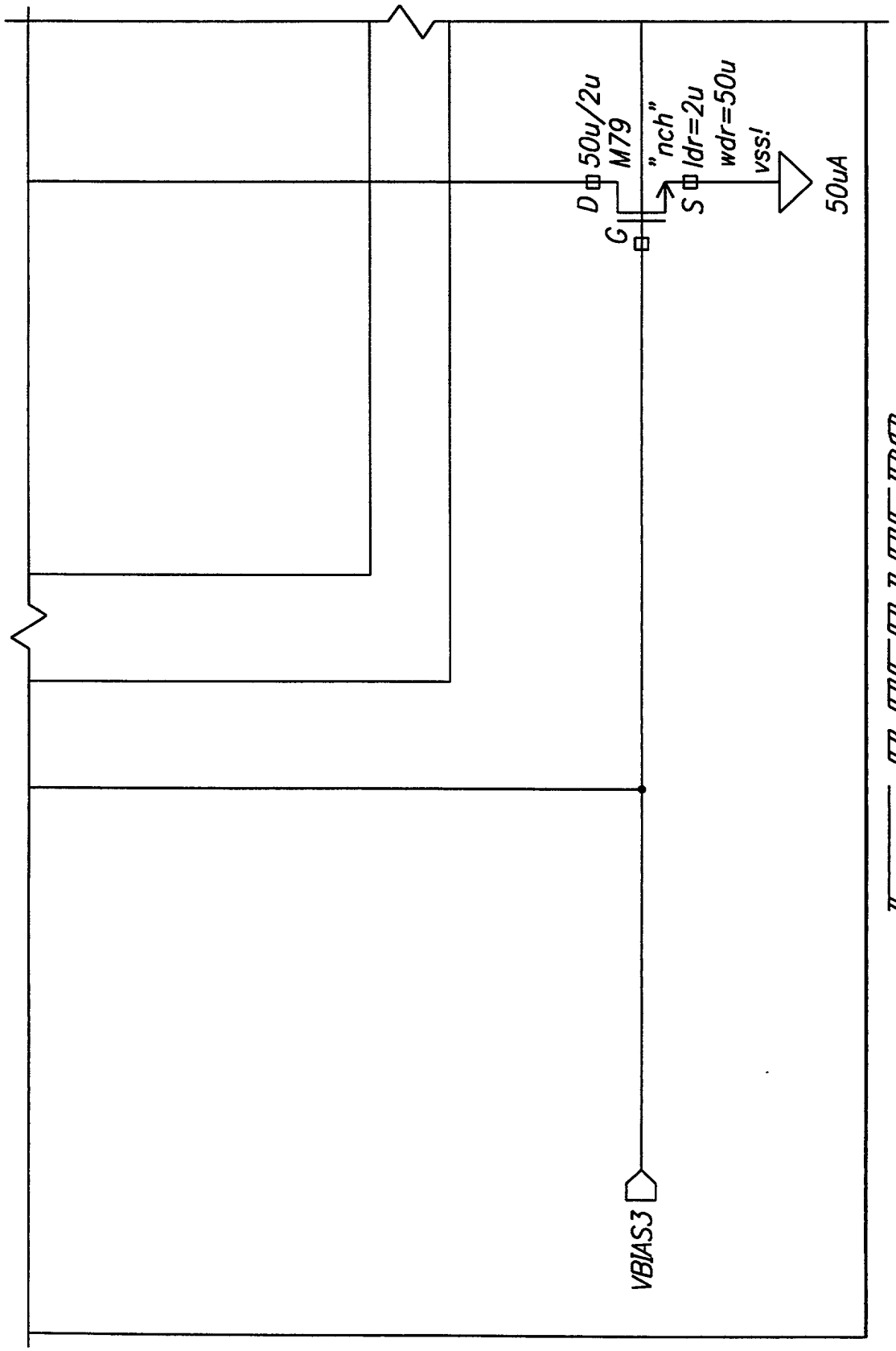


Fig 8.060105CD



Фиг 8.0601050A

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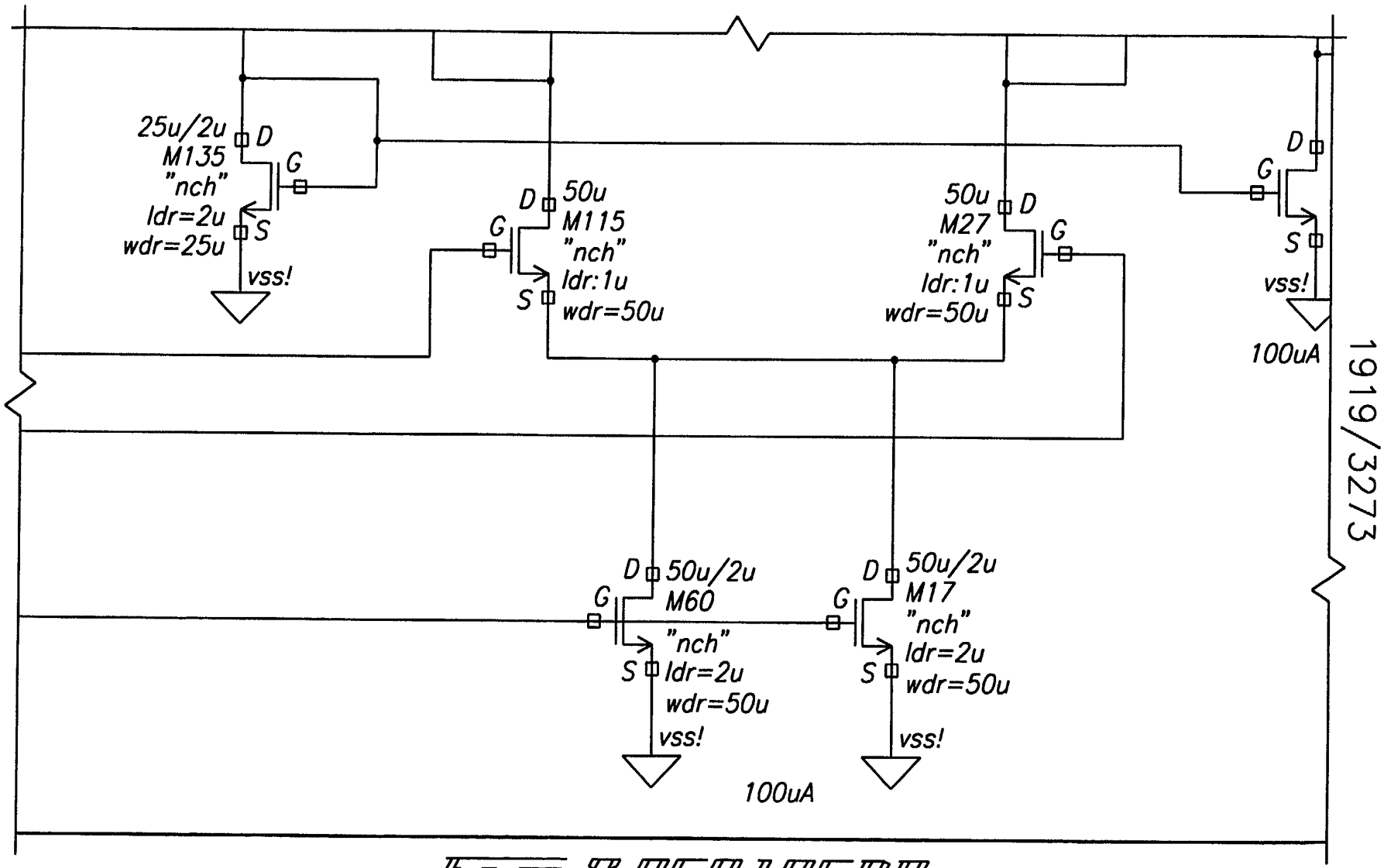
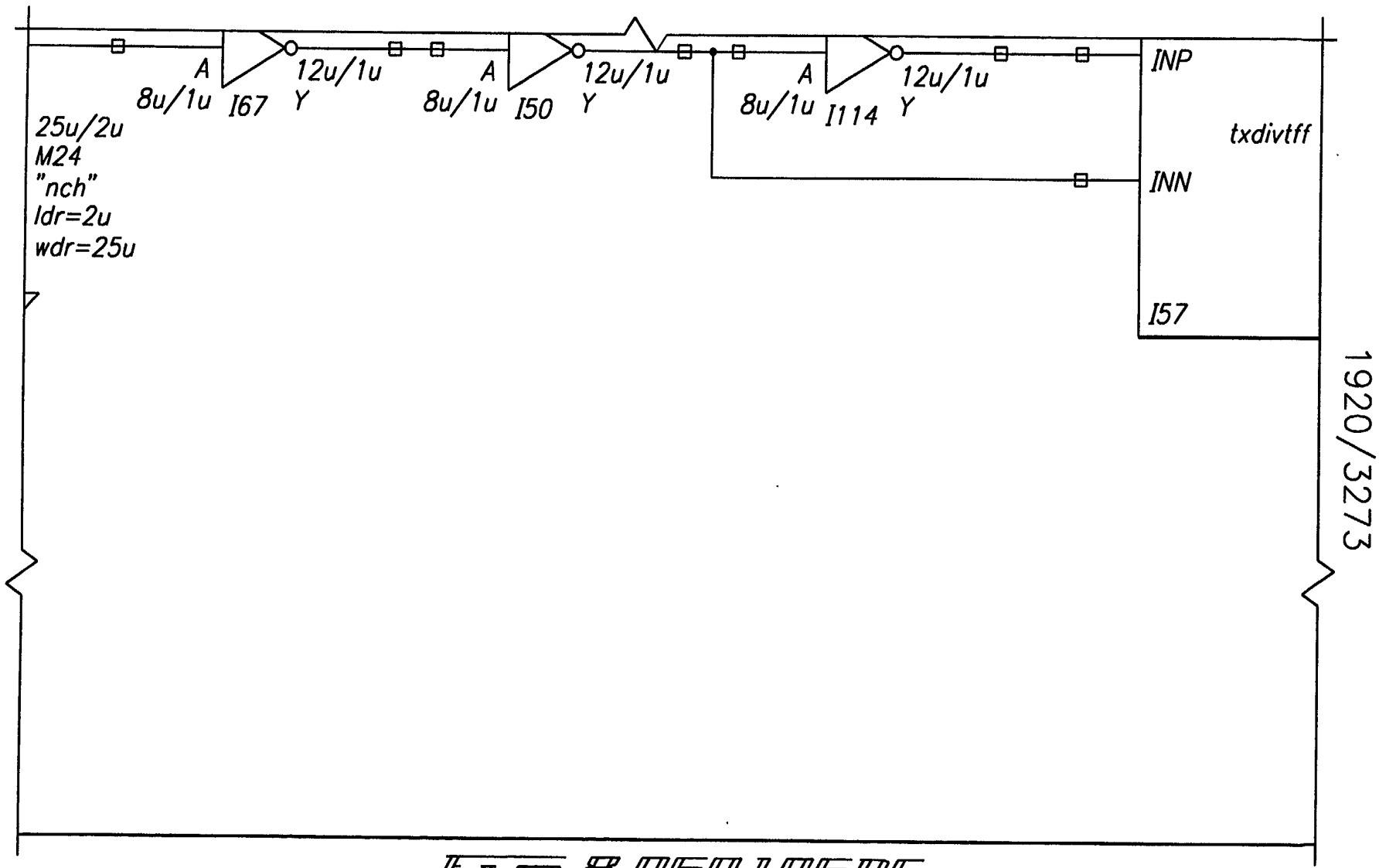


Fig 8.0601050B


A
8u/1u
I67
Y
12u/1u
A
8u/1u
I50
Y
12u/1u
A
8u/1u
I114
Y
12u/1u
INP
txdivtff
INN
I57
25u/2u
M24
"nch"
ldr=2u
wdr=25u
1920/3273

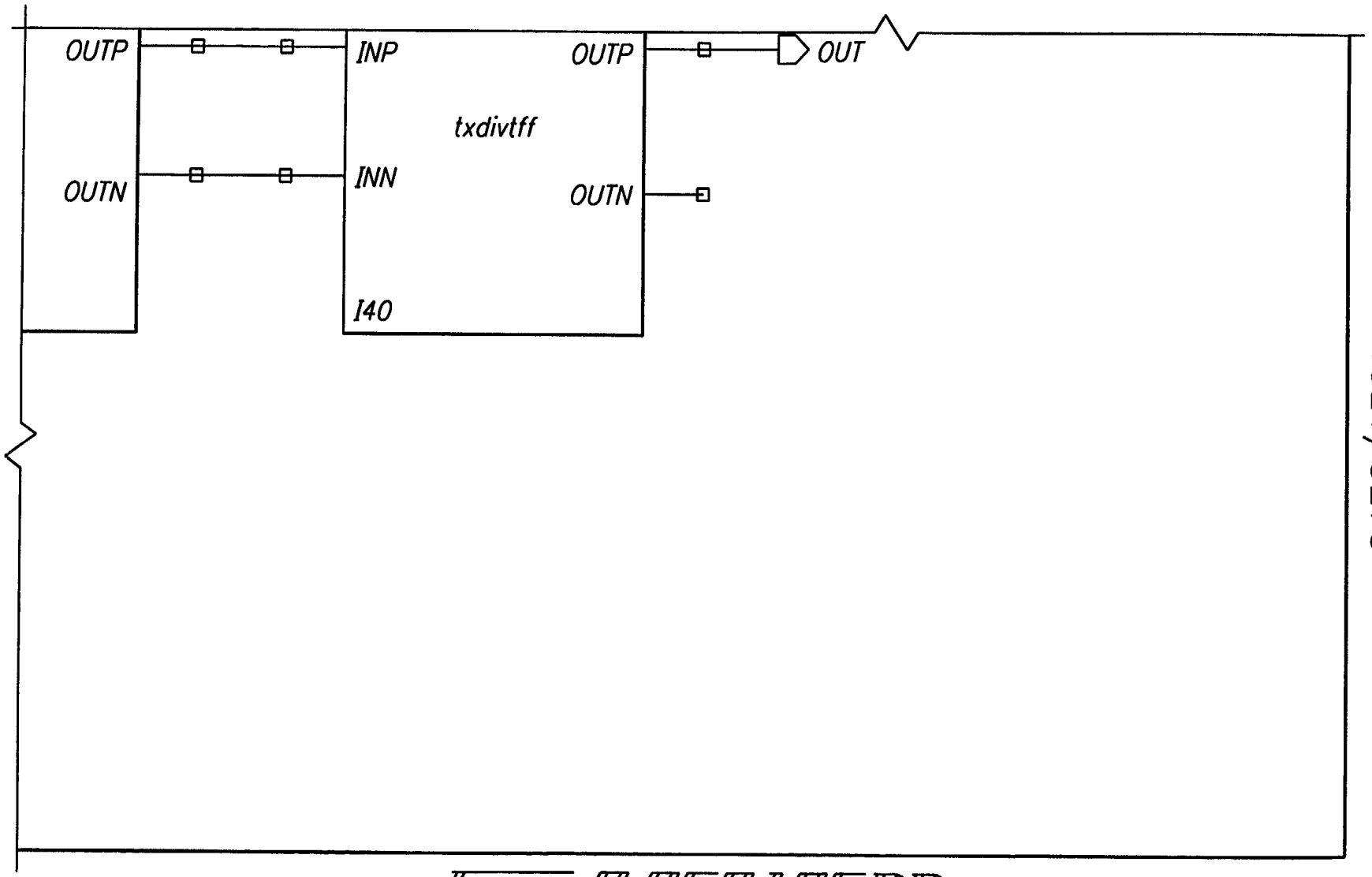


Fig 8.0601050D

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LOT 8 DP 1050118

Document: 05/12/2005

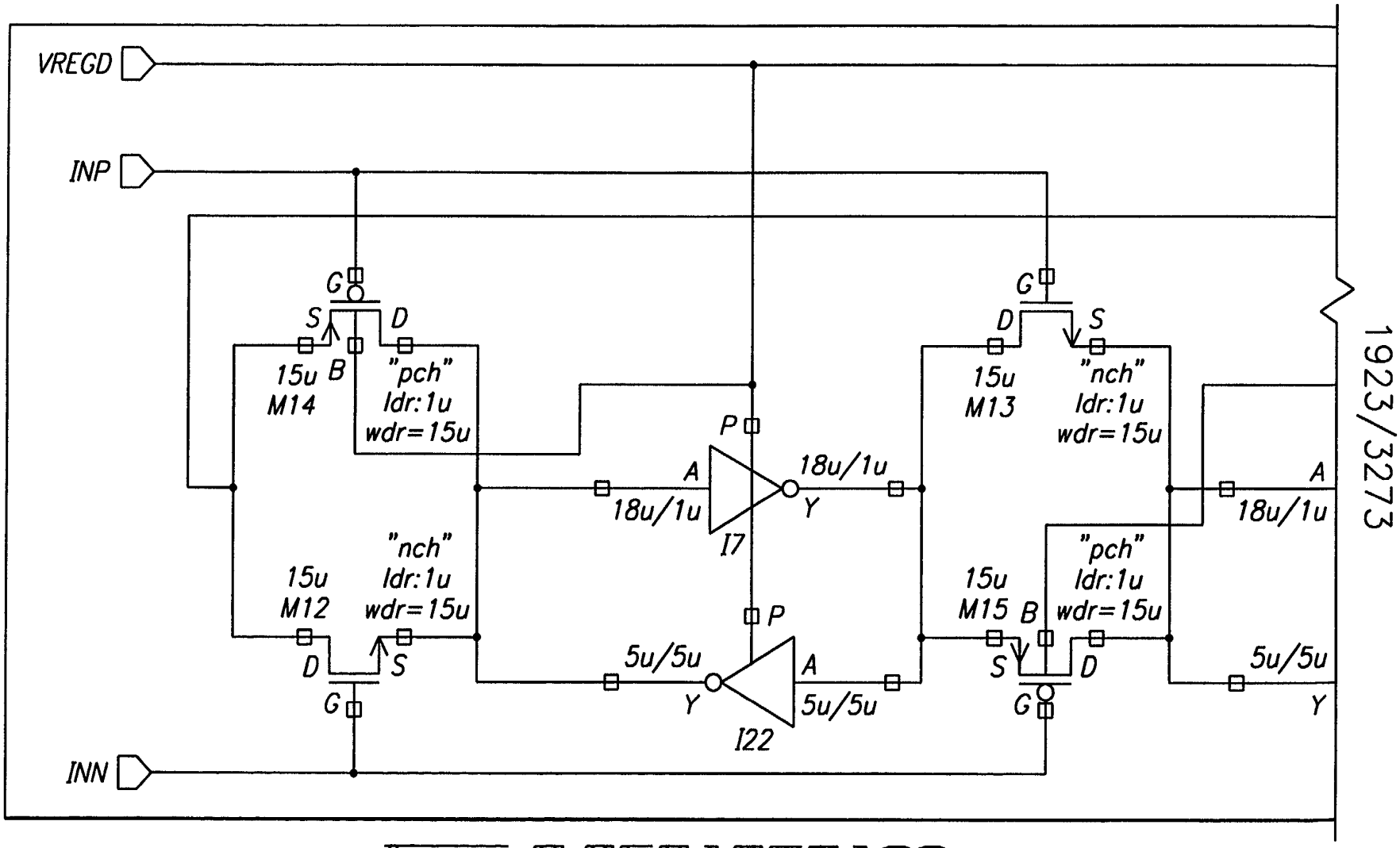
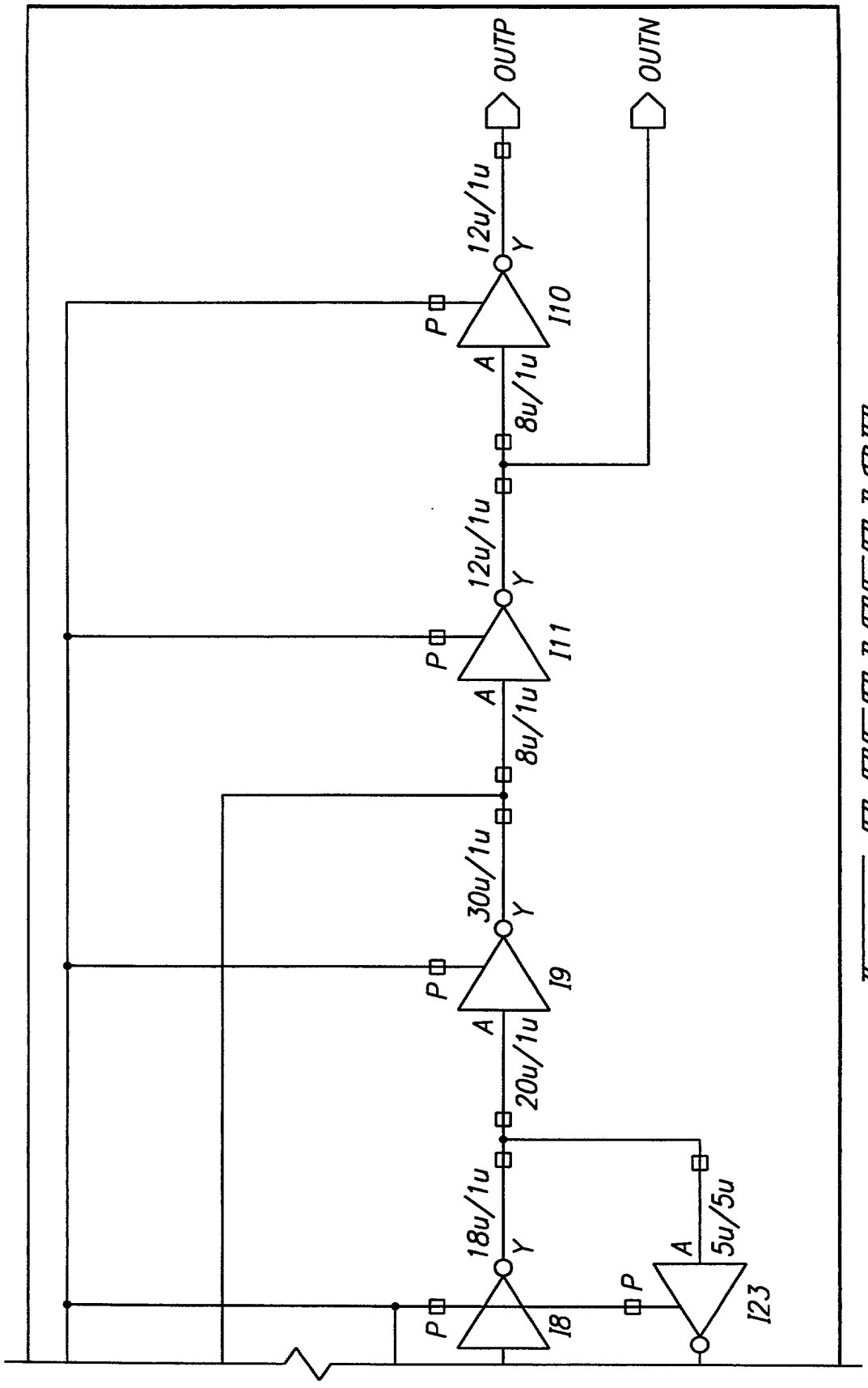


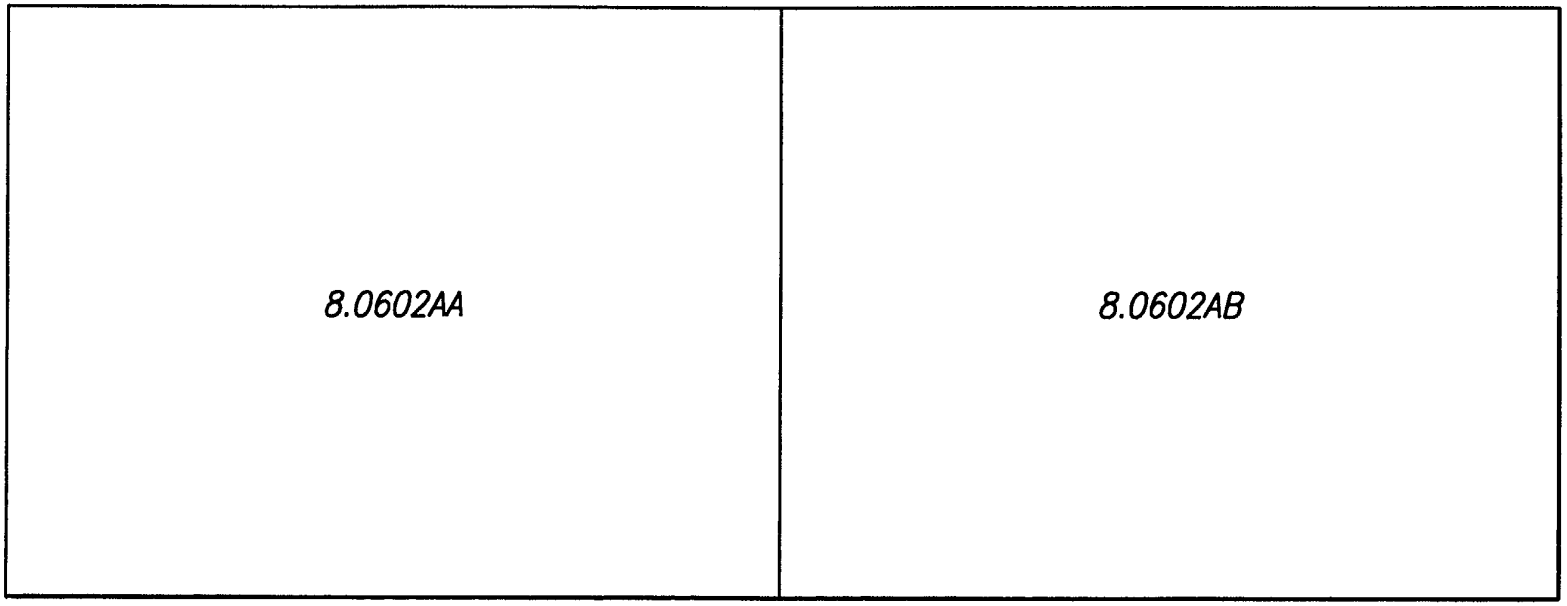
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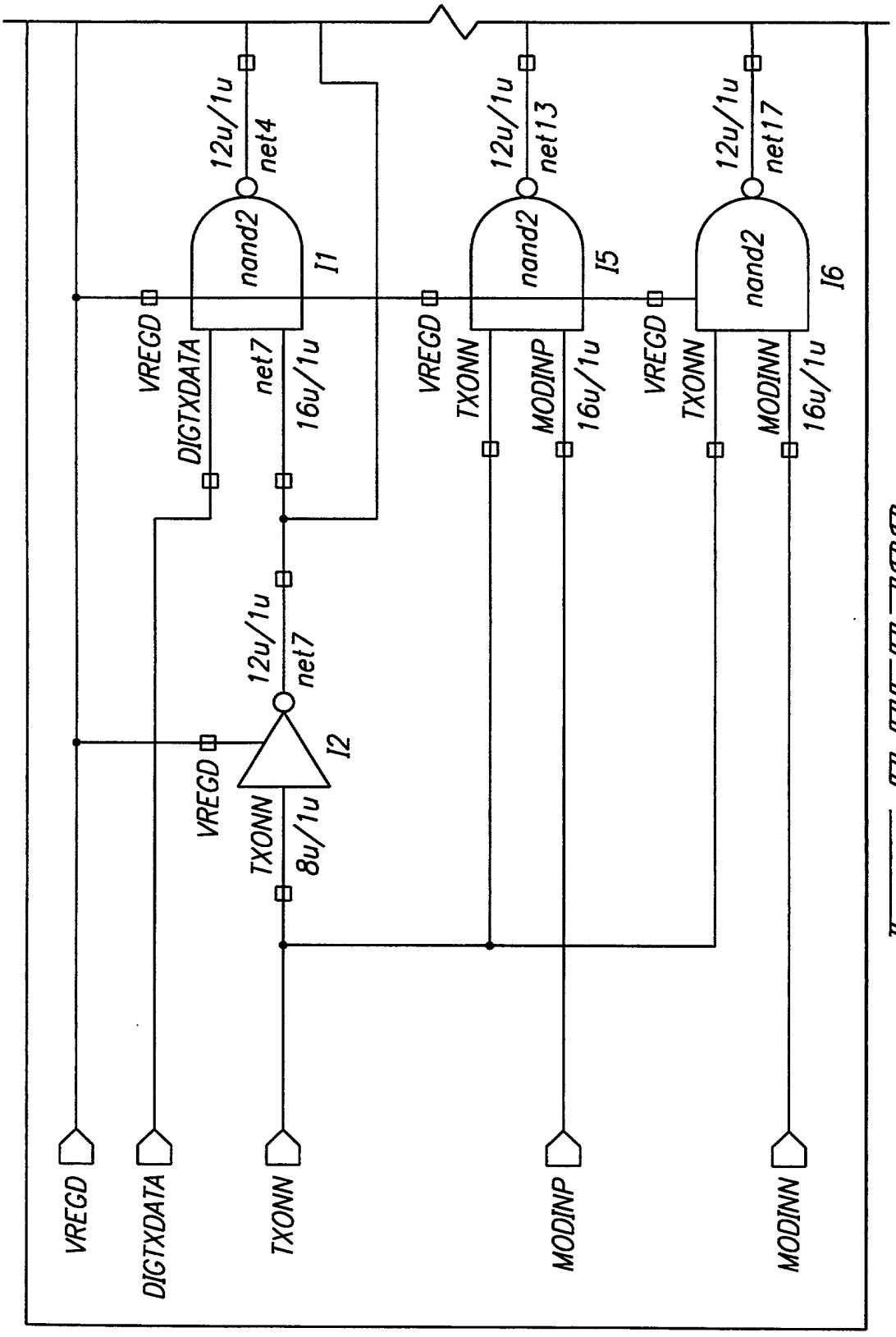
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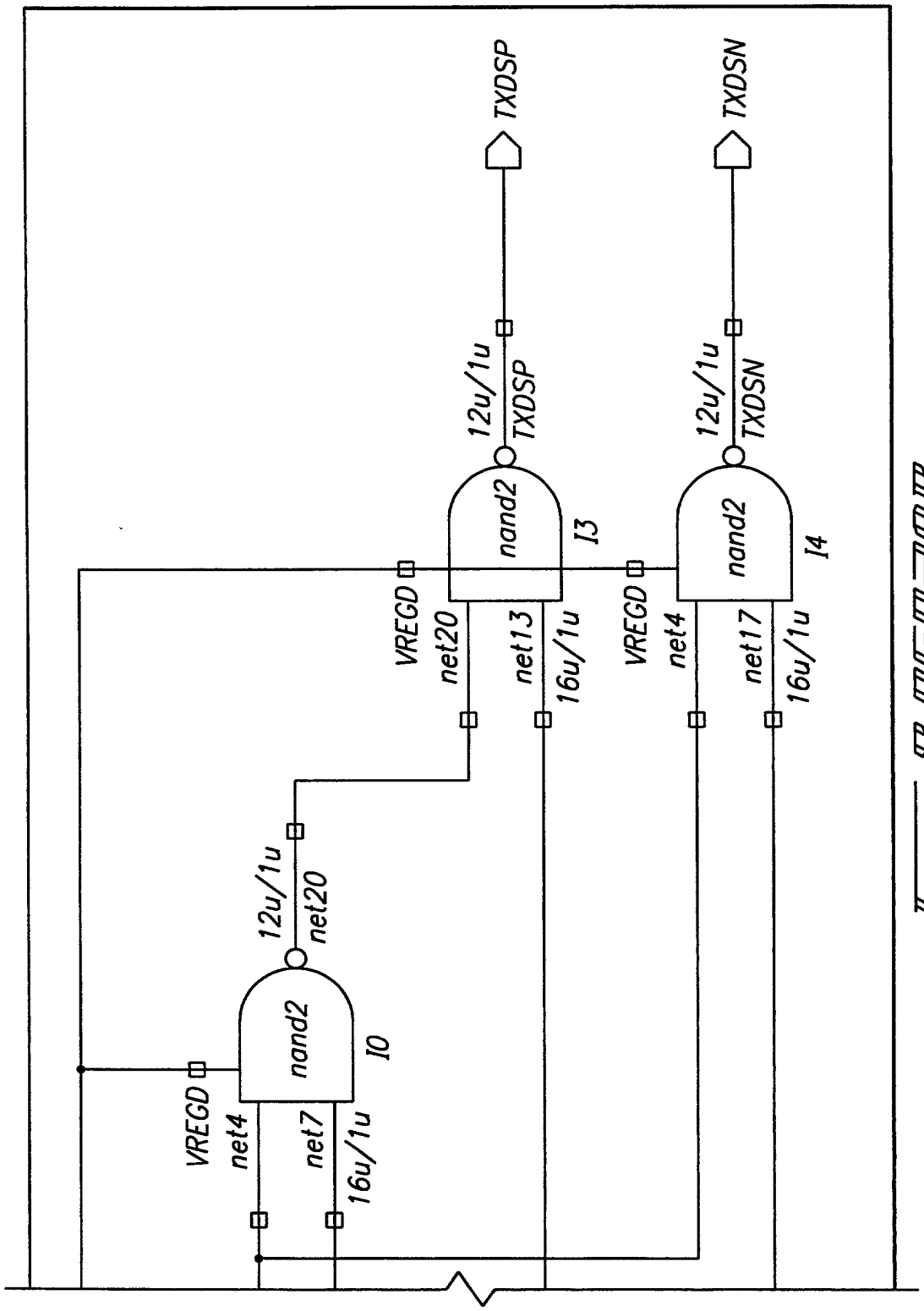
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Lot 8.0602

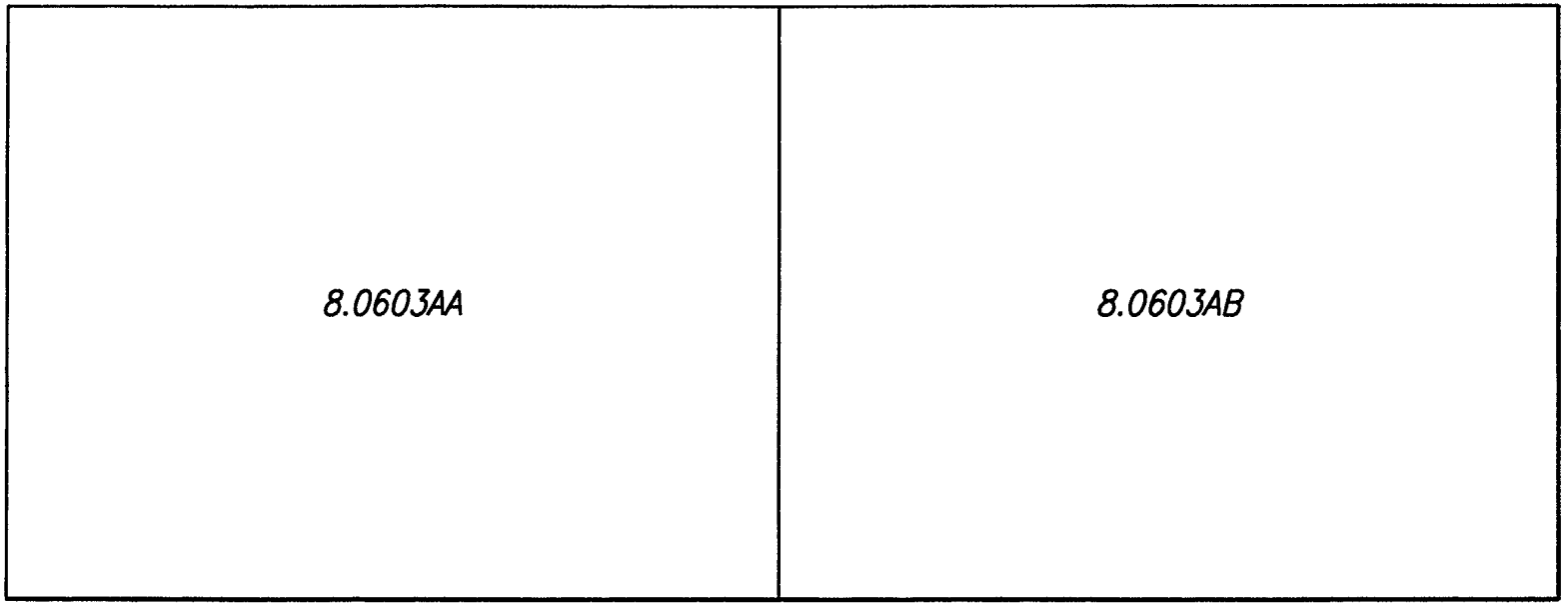


Фиг. 88.0050AA


TXDSP
TXDSN
12u/1u
TXDSP
12u/1u
TXDSN
nand2
I3
nand2
I4
VREGD
net20
net13
16u/1u
VREGD
net4
net17
16u/1u
12u/1u
net20
nand2
I0
VREGD
net4
net7
16u/1u

Фиг. 8.0502AB

TOTTOD 590222860



Lot 8.0603

1928/3273

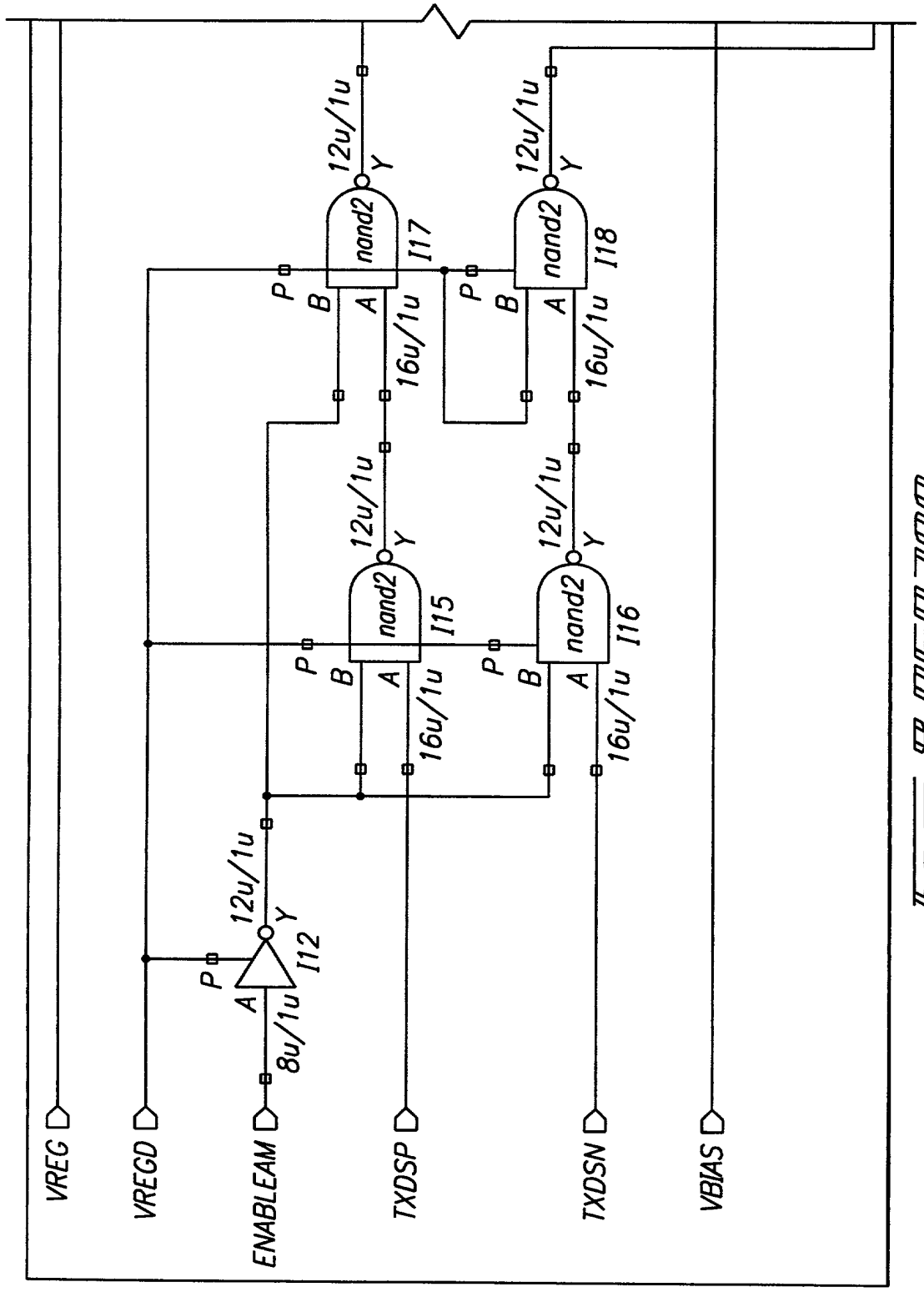
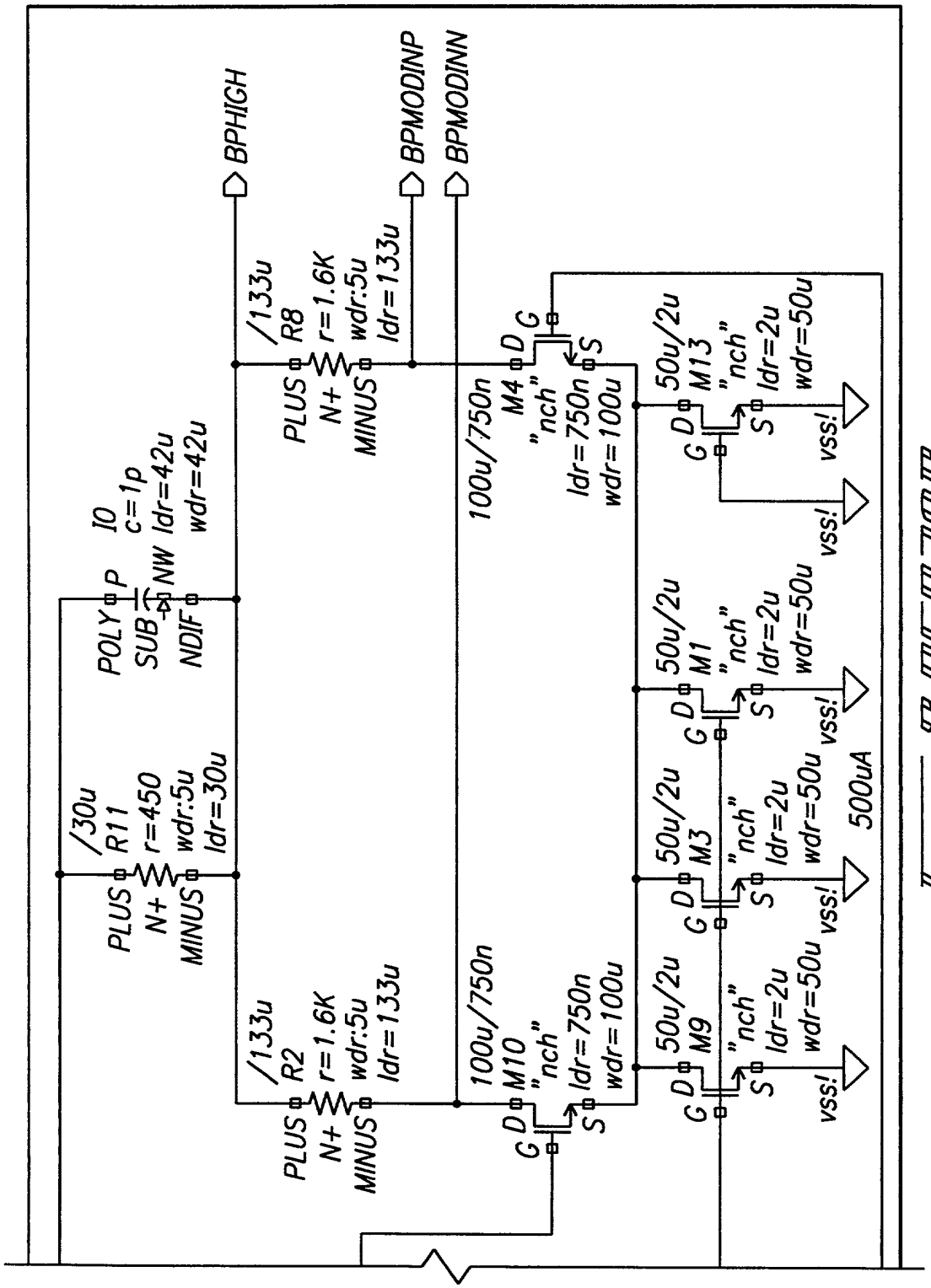


FIG 8.0SDE 0SDAA


BPHIGH
BPMODINP
BPMODINN
I0
c=1p
/30u
R11
r=450
wdr:5u
ldr=30u
/133u
R2
r=1.6K
wdr:5u
ldr=133u
/133u
R8
r=1.6K
wdr:5u
ldr=133u
100u/750n
M10
"nch"
ldr=750n
wdr=100u
100u/750n
M4
"nch"
ldr=750n
wdr=100u
50u/2u
M3
"nch"
ldr=2u
wdr=50u
50u/2u
M9
"nch"
ldr=2u
wdr=50u
50u/2u
M1
"nch"
ldr=2u
wdr=50u
50u/2u
M13
"nch"
ldr=2u
wdr=50u
500uA
vss!
PLUS
N+
MINUS
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SUB
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NW
G
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S

T0T190*E90A2B6D

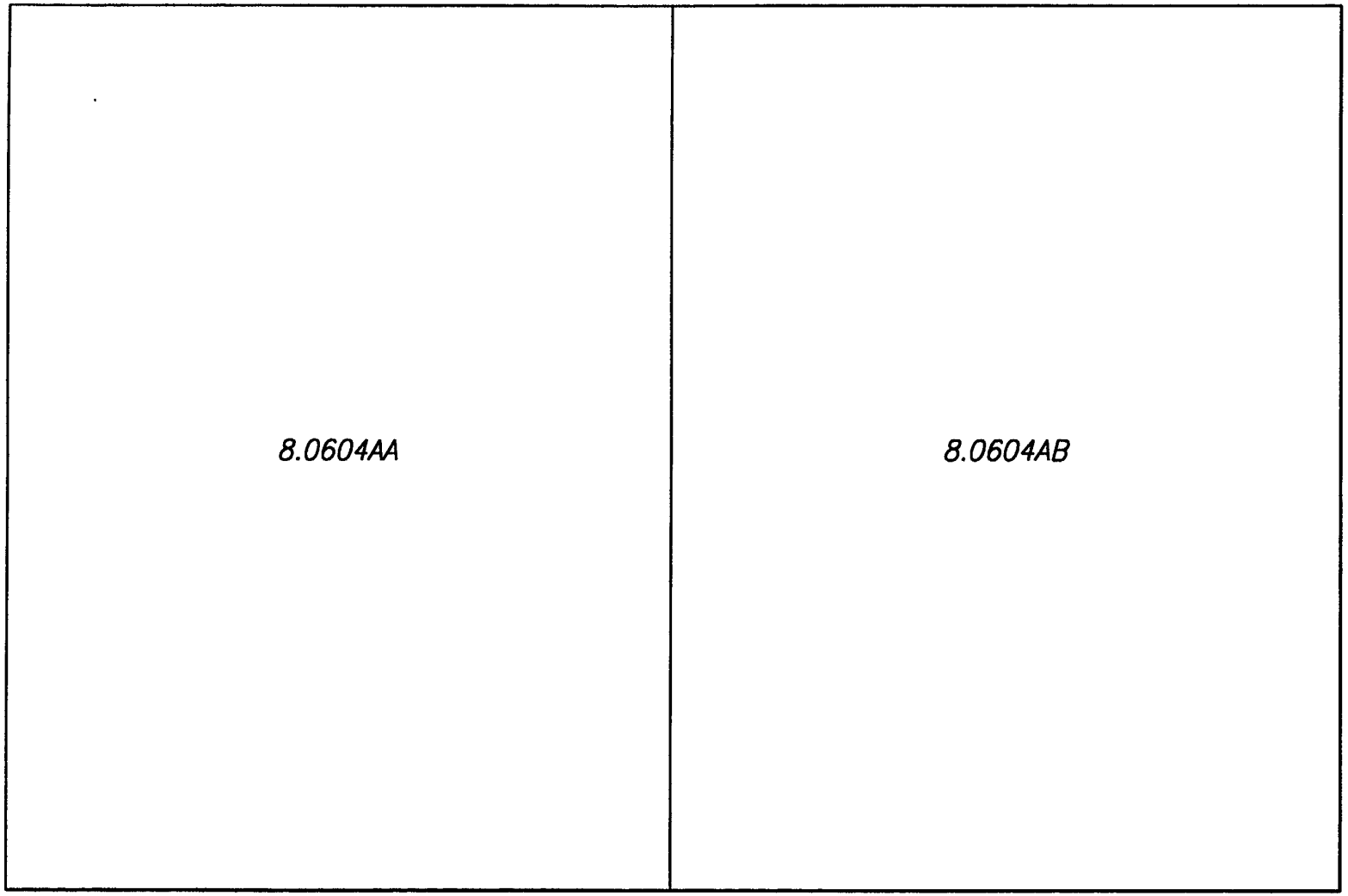
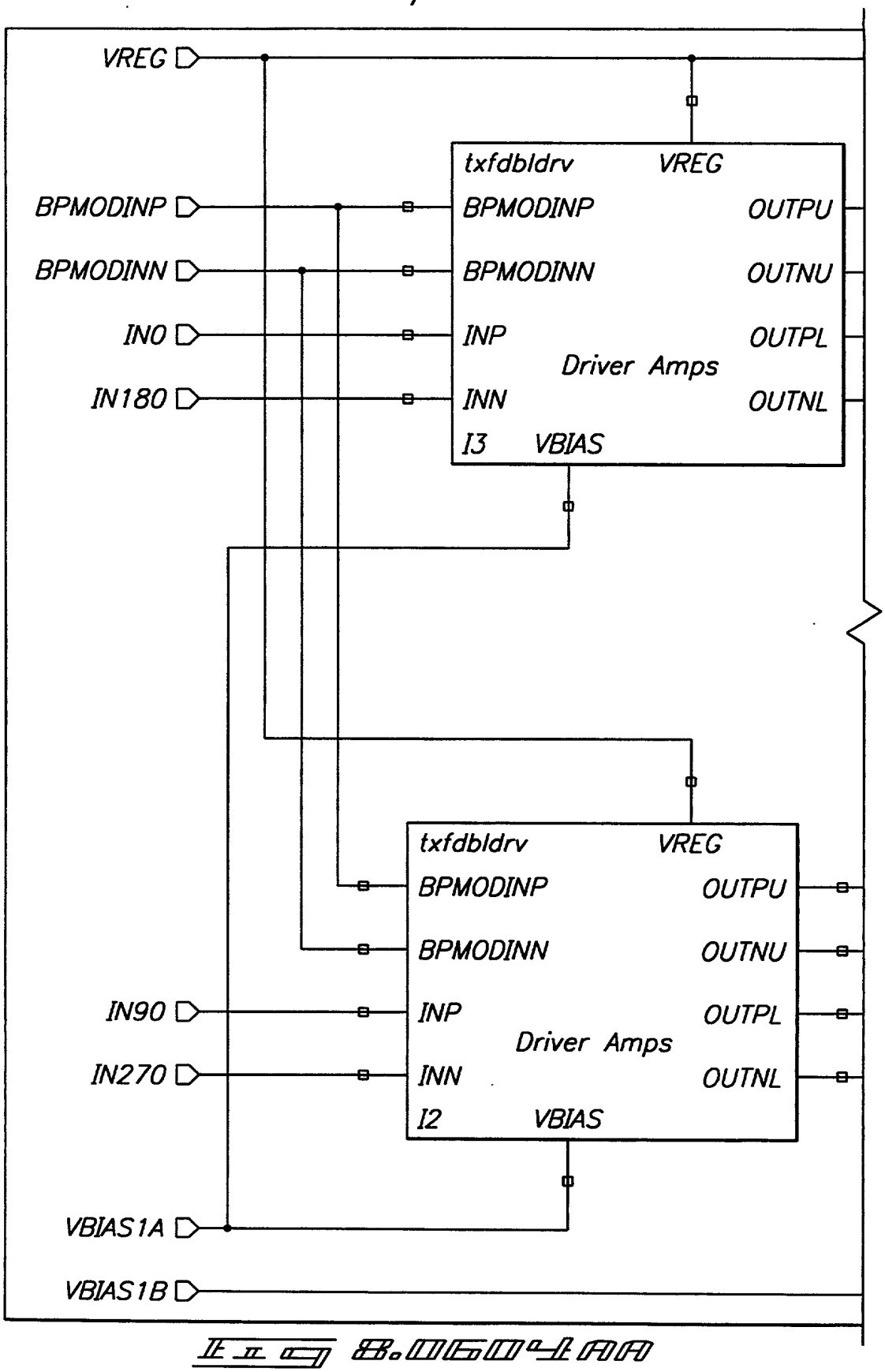


Fig 8.0604

1931/3273


VREG
txfdbldrv
VREG
BPMODINP
BPMODINP
OUTPU
BPMODINN
BPMODINN
OUTNU
IN0
INP
OUTPL
Driver Amps
IN180
INN
OUTNL
I3
VBIAS
txfdbldrv
VREG
BPMODINP
OUTPU
BPMODINN
OUTNU
IN90
INP
OUTPL
Driver Amps
IN270
INN
OUTNL
I2
VBIAS
VBIAS1A
VBIAS1B

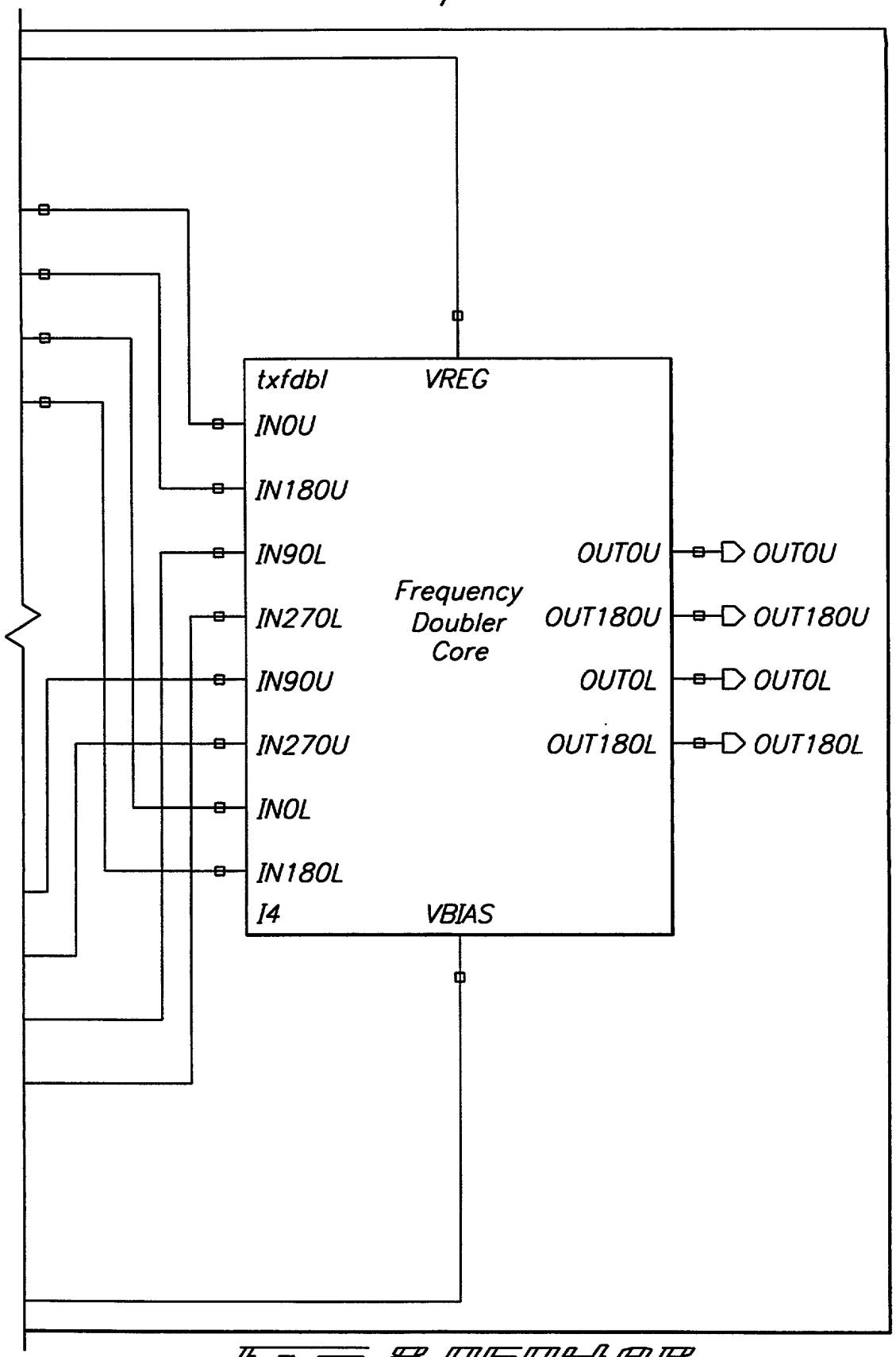


Fig 8.0604AB

09622064 05/24/95

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8.060401CA	8.060401CB	8.060401CC	8.060401CD	8.060401CE
8.060401DA	8.060401DB	8.060401DC	8.060401DD	8.060401DE
8.060401EA	8.060401EB	8.060401EC	8.060401ED	8.060401EE
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Fig 8.060401

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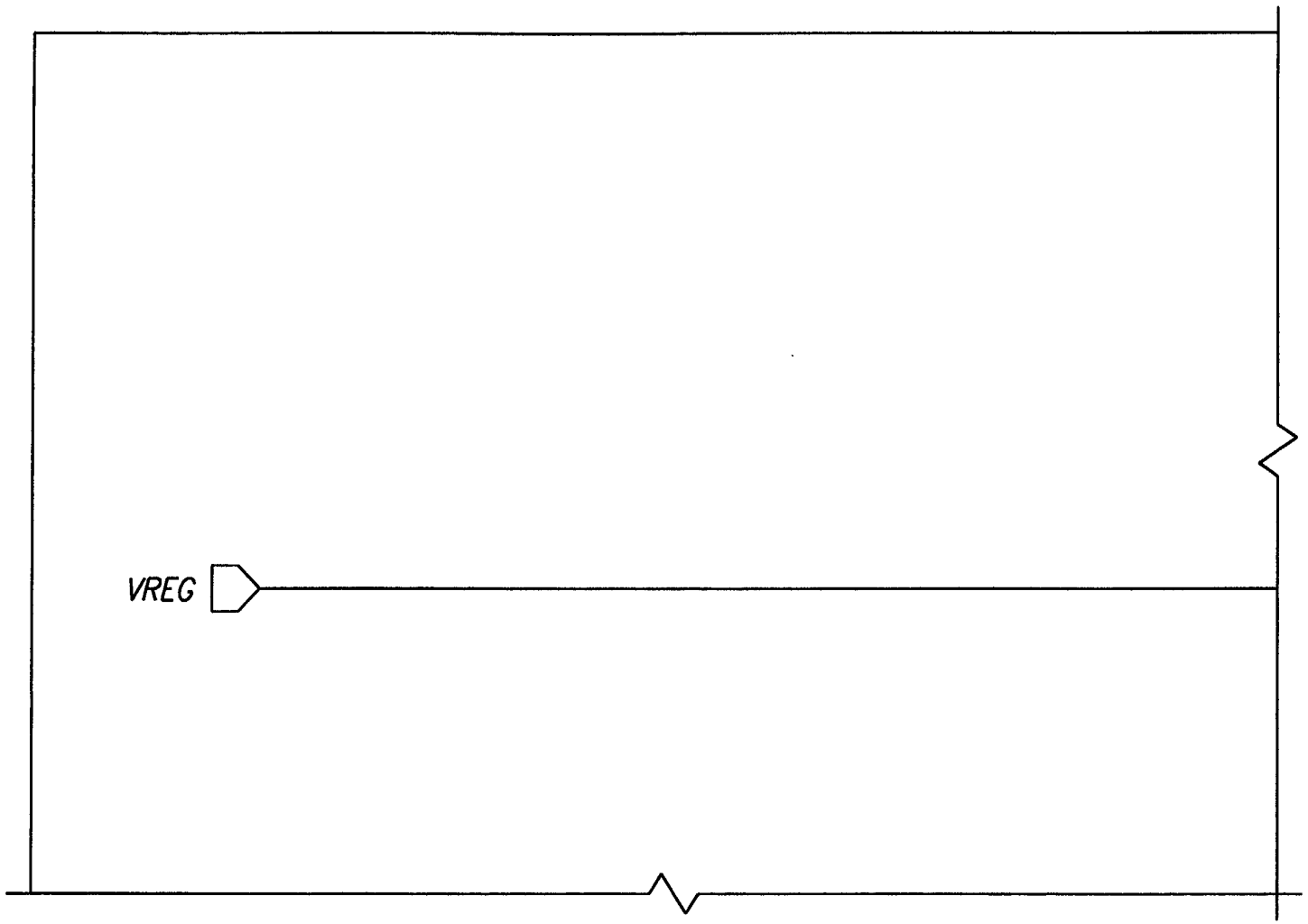
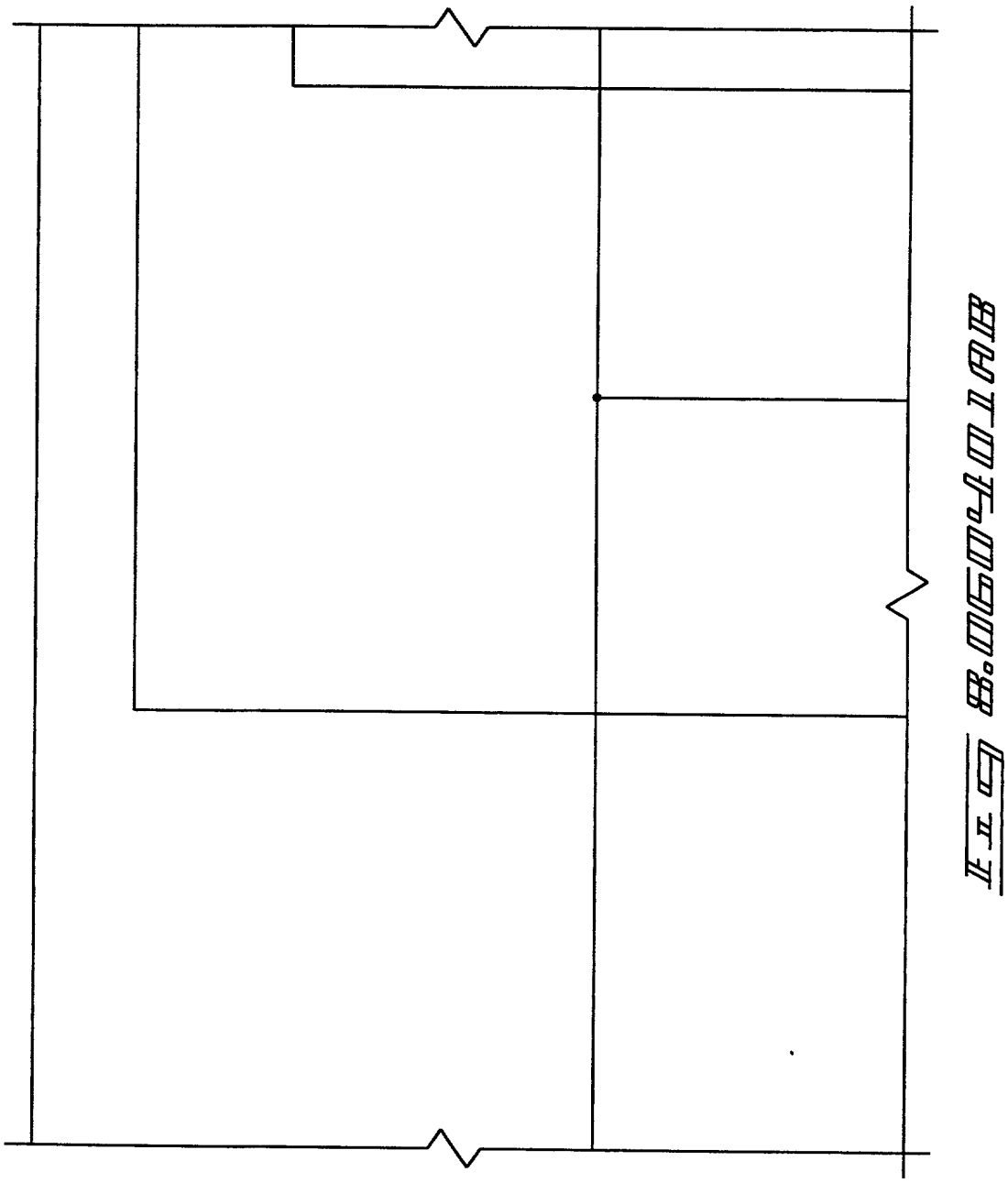


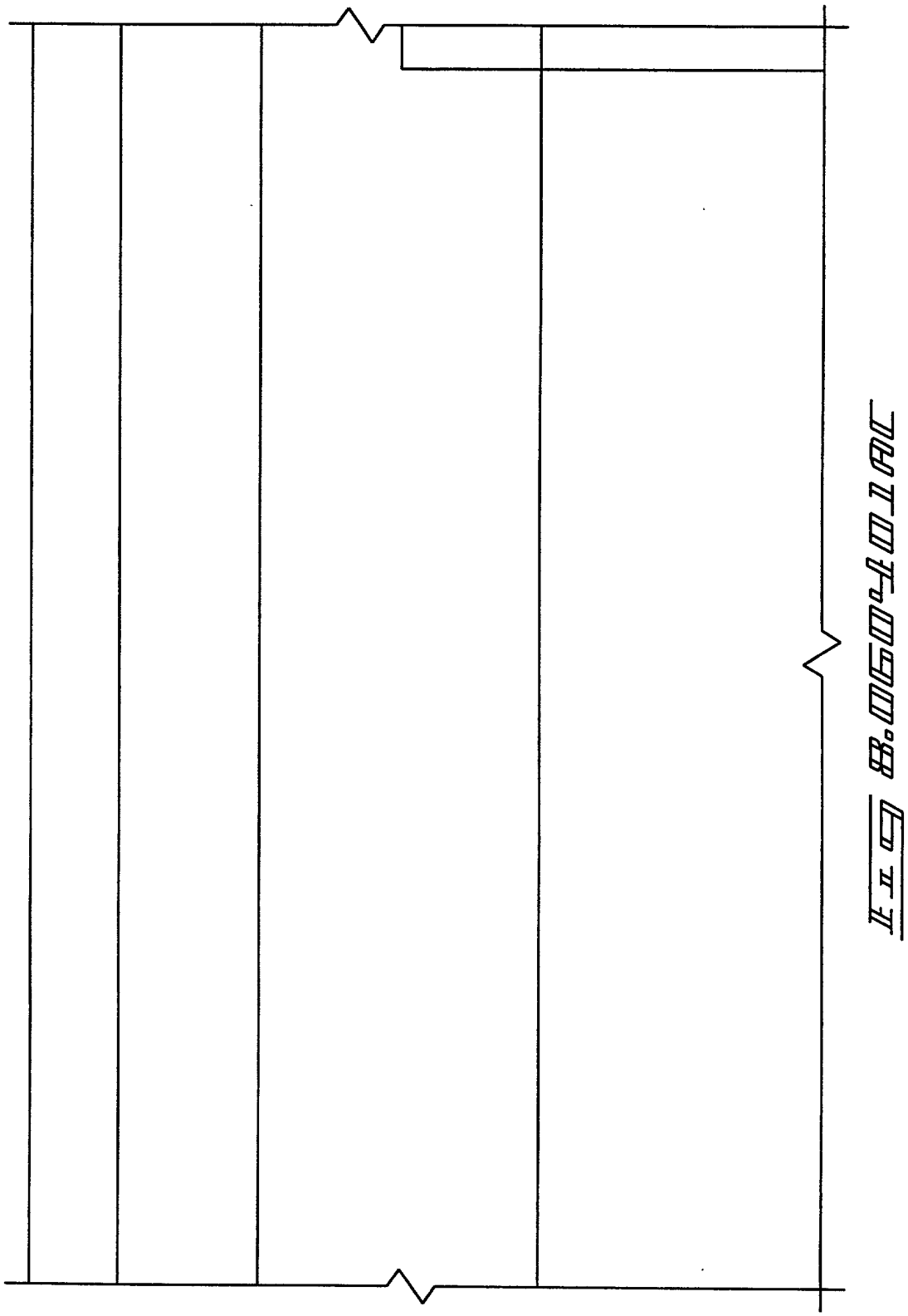
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1936/3273

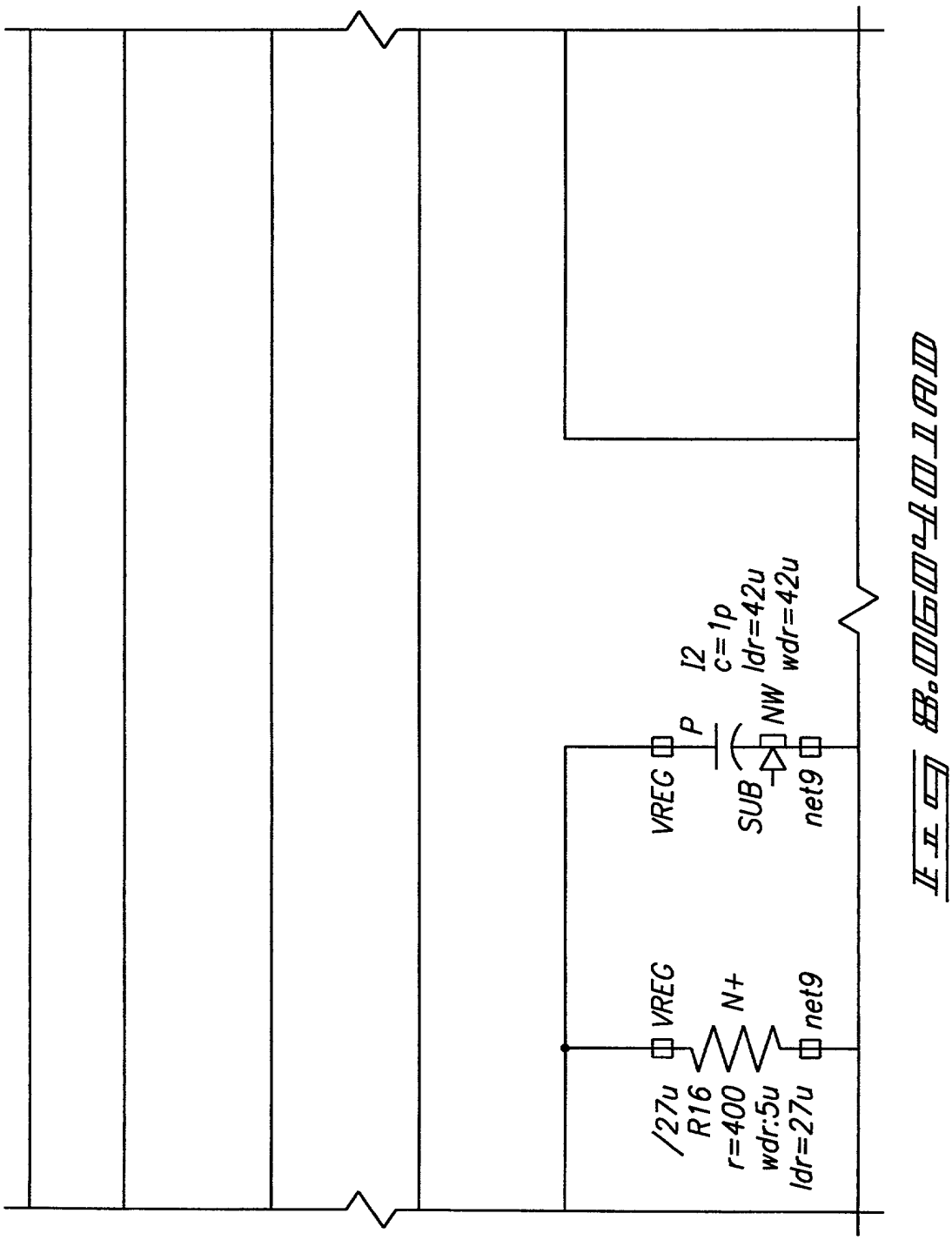


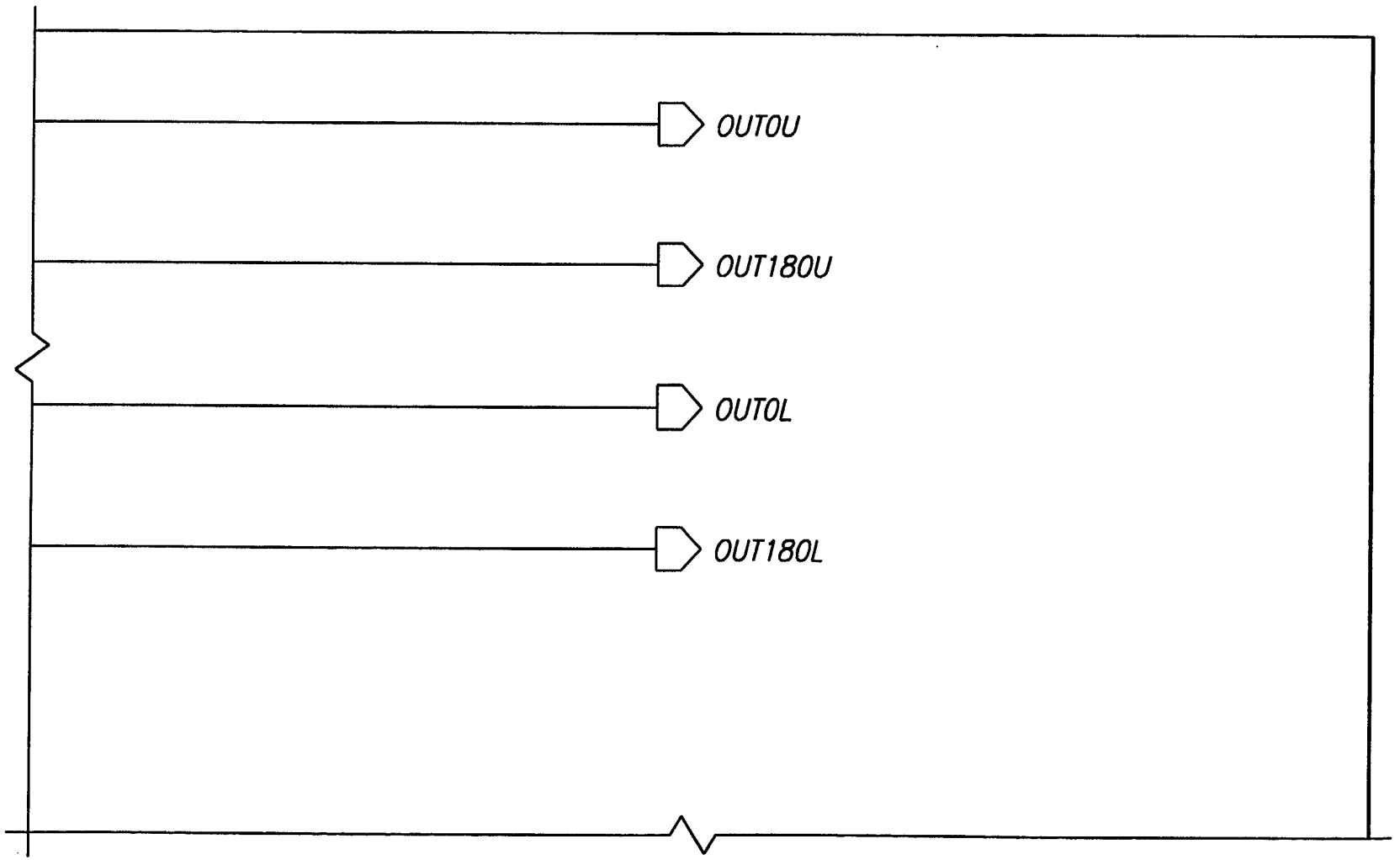
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1937/3273



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/27u
R16
r=400
wdr:5u
ldr=27u
VREG
N+
net9
VREG
P
SUB
NW
net9
I2
c=1p
ldr=42u
wdr=42u



1939/3273

Fig 8.0604.01AE

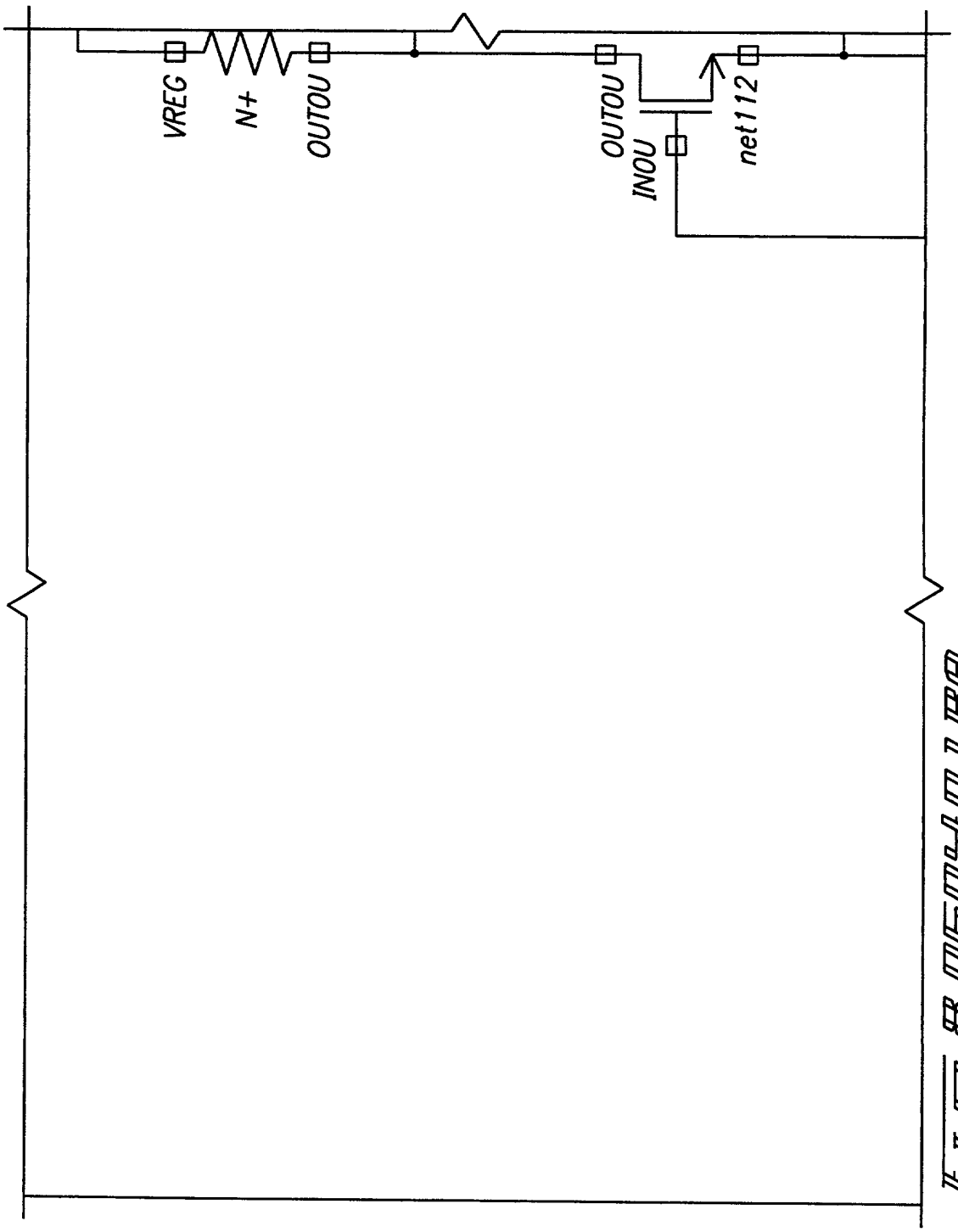
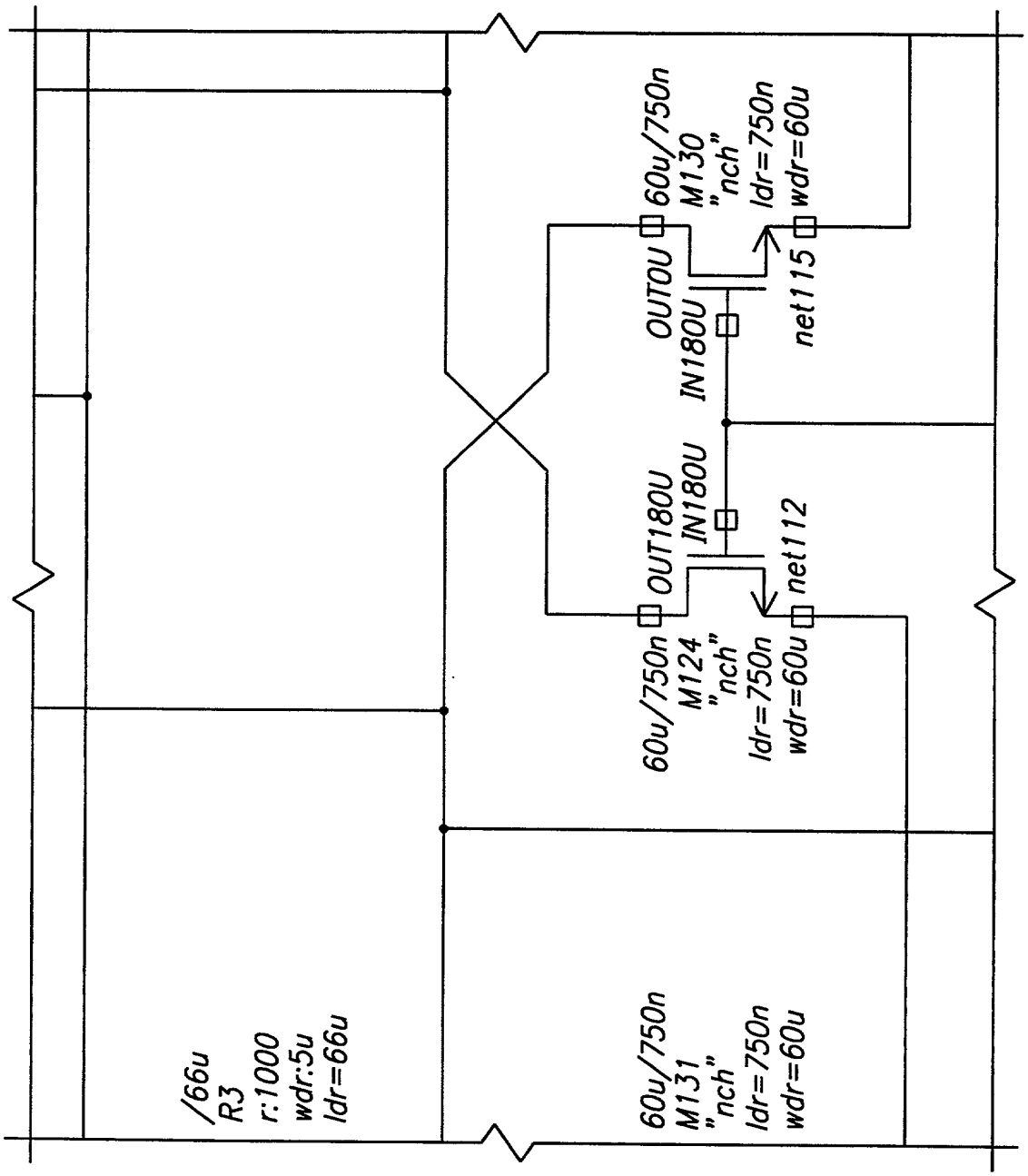
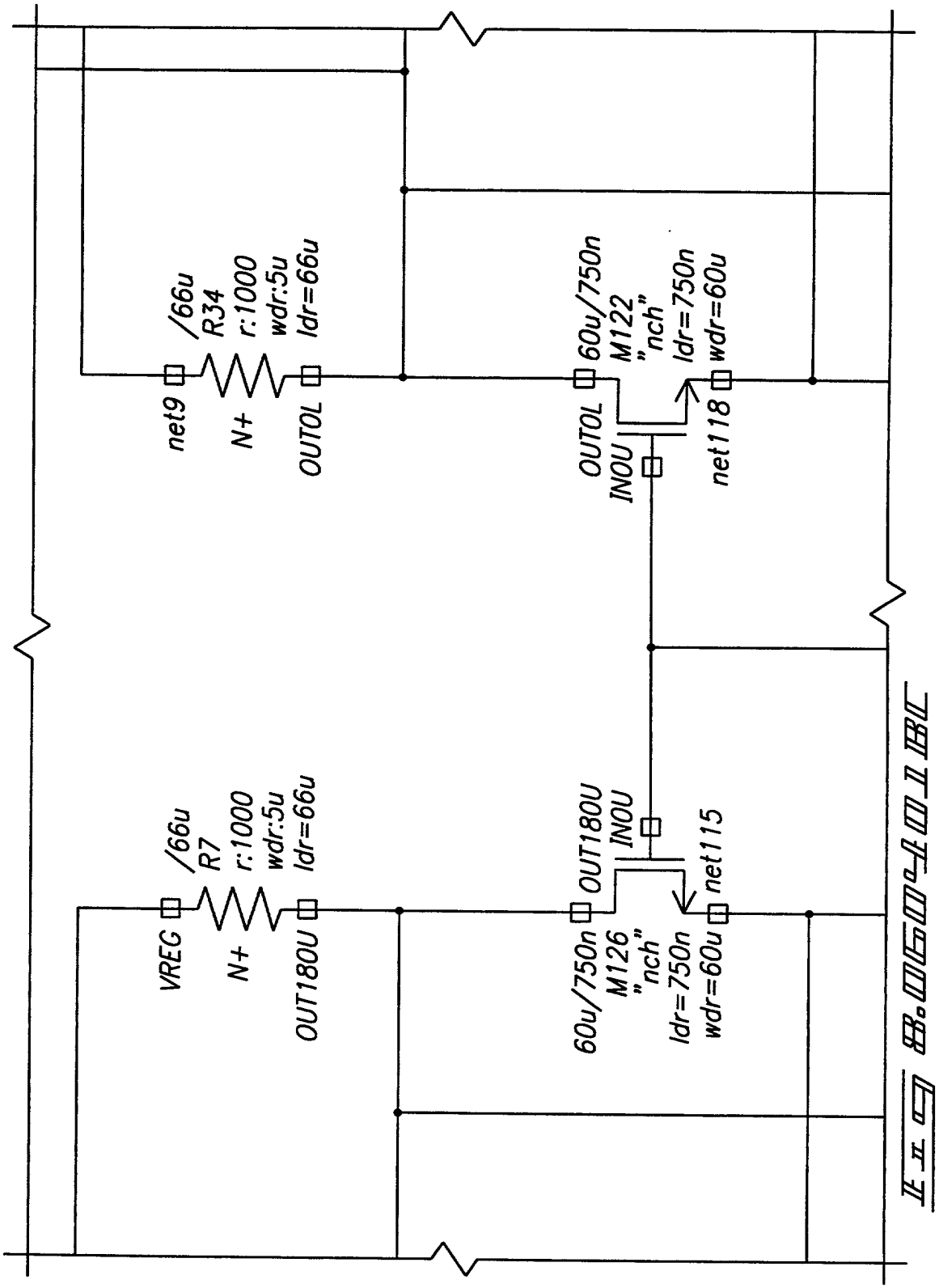


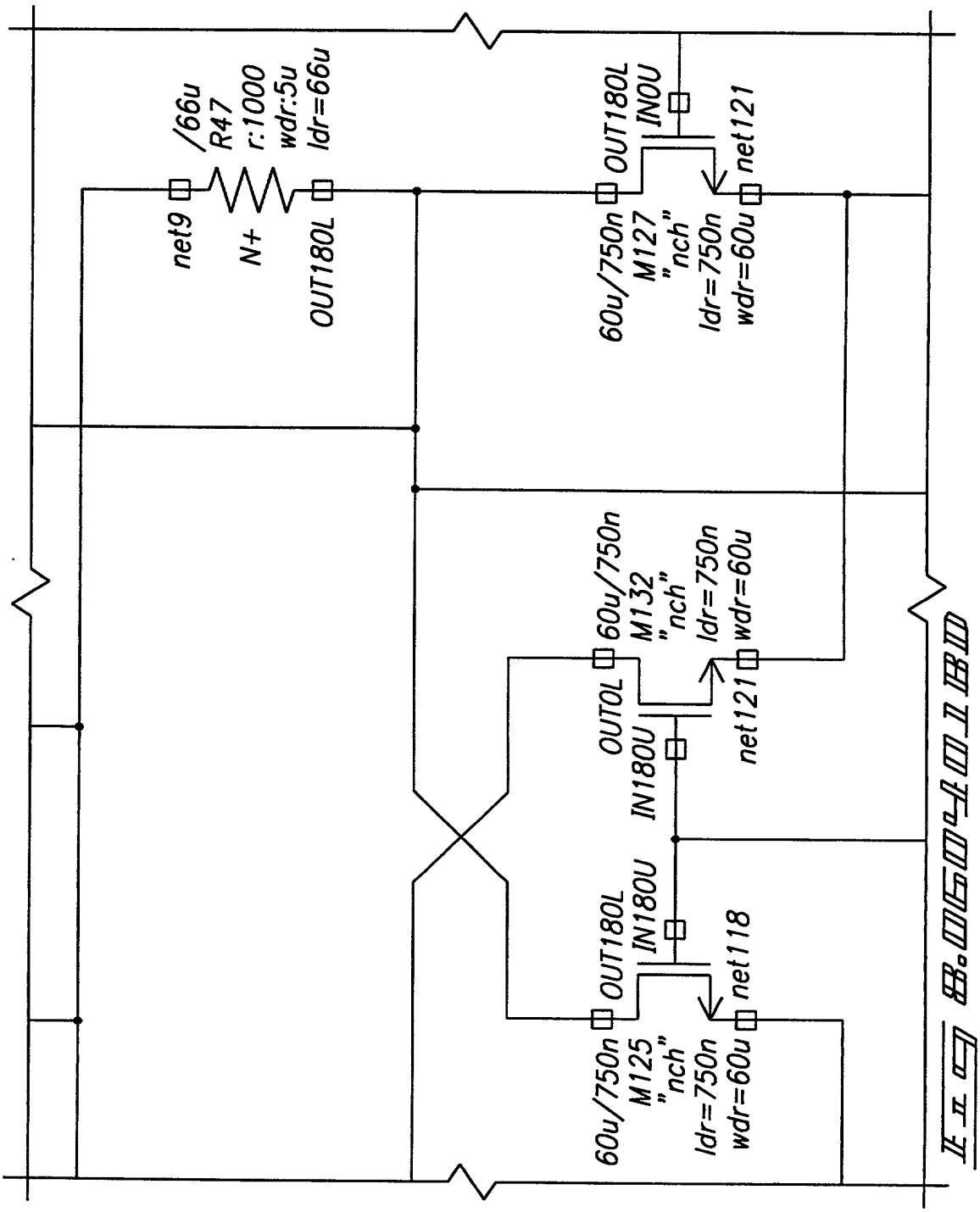
Fig 8.0604011BA

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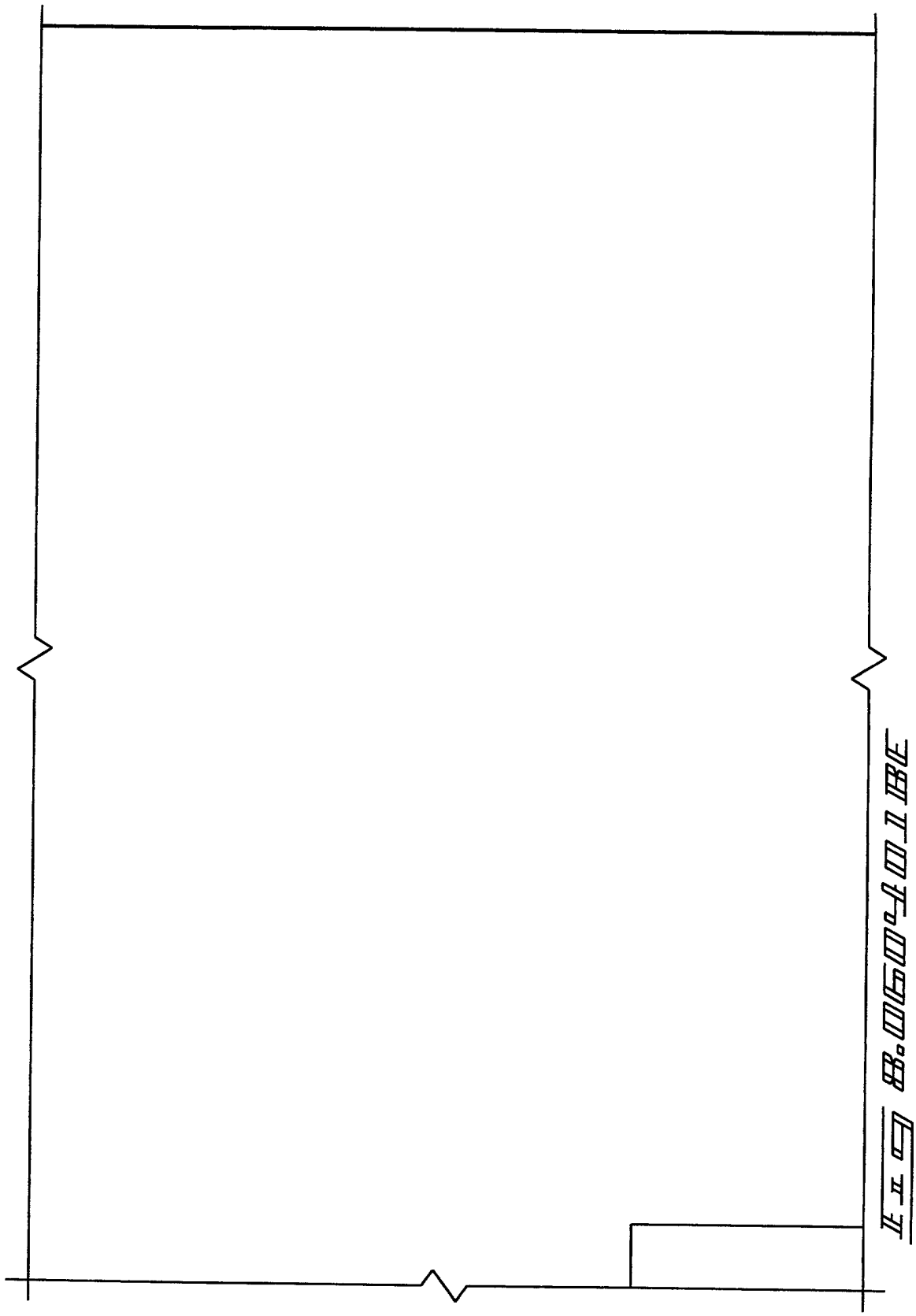


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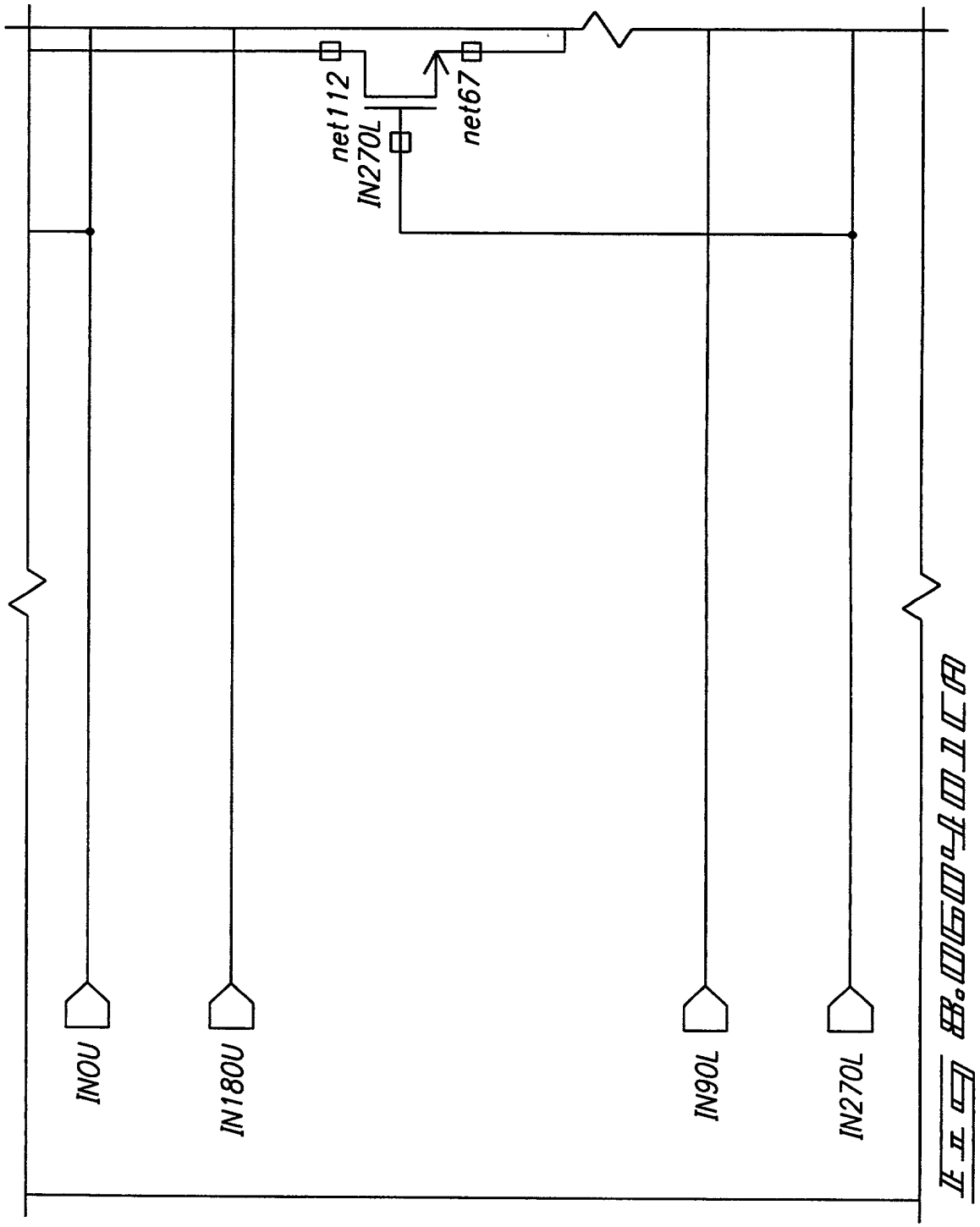

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R34
r:1000
wdr:5u
ldr=66u
net9
N+
OUTOL
60u/750n
M122
"nch"
ldr=750n
wdr=60u
OUTOL
INOU
net118
/66u
R7
r:1000
wdr:5u
ldr=66u
VREG
N+
OUT180U
OUT180U
INOU
net115
60u/750n
M126
"nch"
ldr=750n
wdr=60u


/66u
R47
r:1000
wdr:5u
ldr=66u
net9
N+
OUT180L
OUT180L
IN0U
net121
60u/750n
M127
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wdr=60u
60u/750n
M132
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wdr=60u
OUT0L
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1944/3273

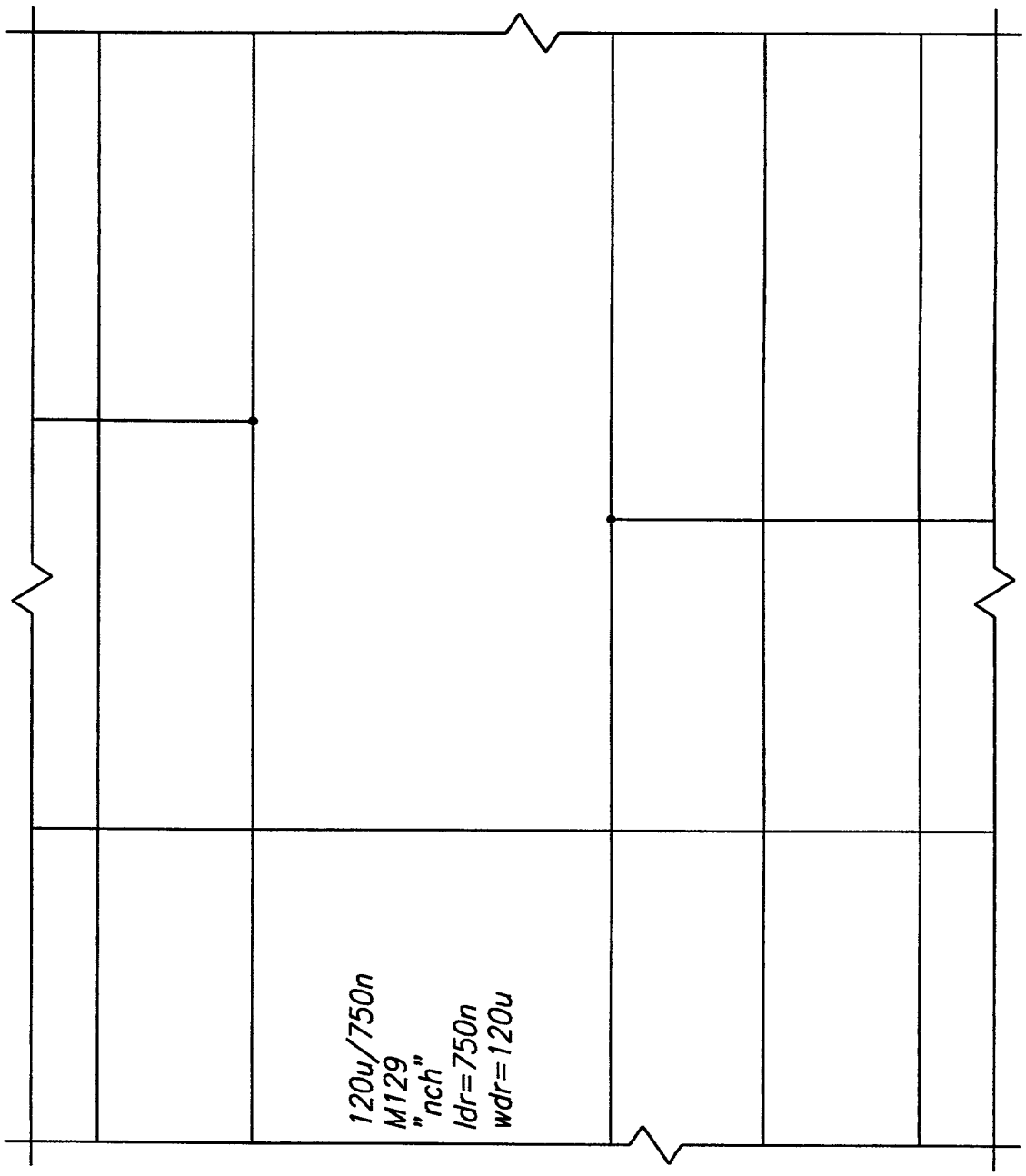


ВЪВЕДЕНО В ГЕОПОРТАЛ



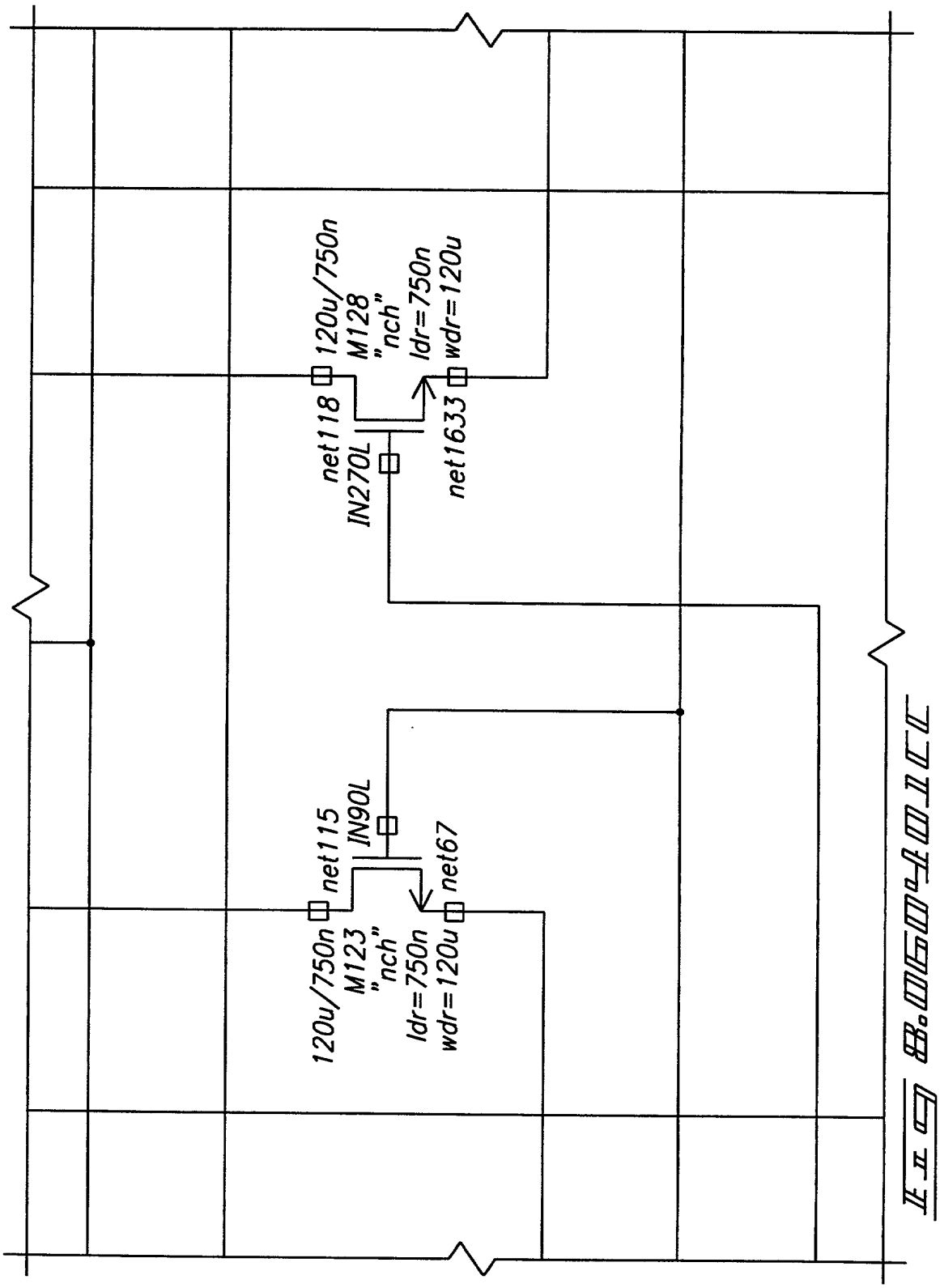
Фиг. 8.005.4.0.1.1.0.0.0

1946/3273



ВЛ10Г4005.08 ЭТ

Подписано и сдано в печать


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IN270L
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1947/3273

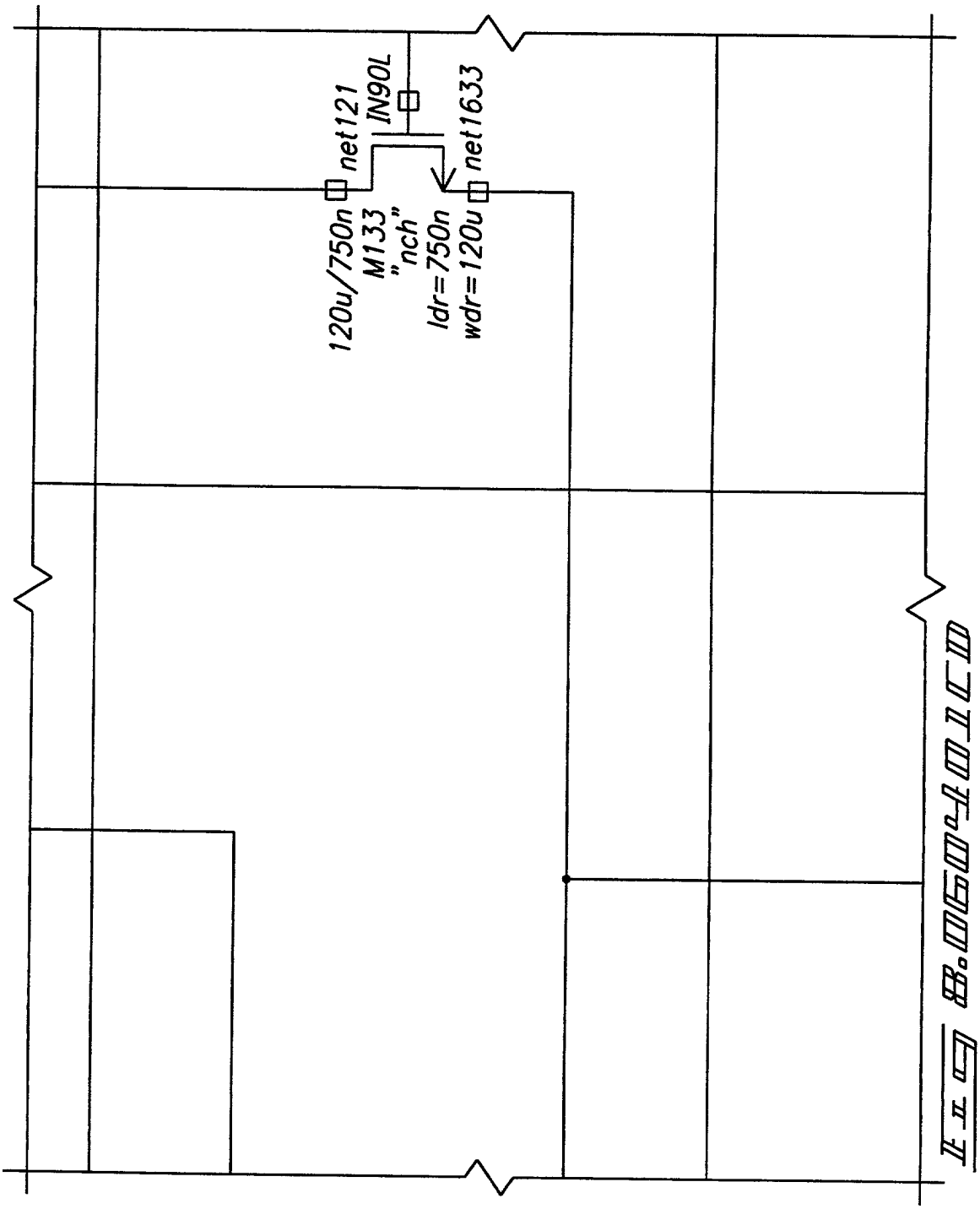
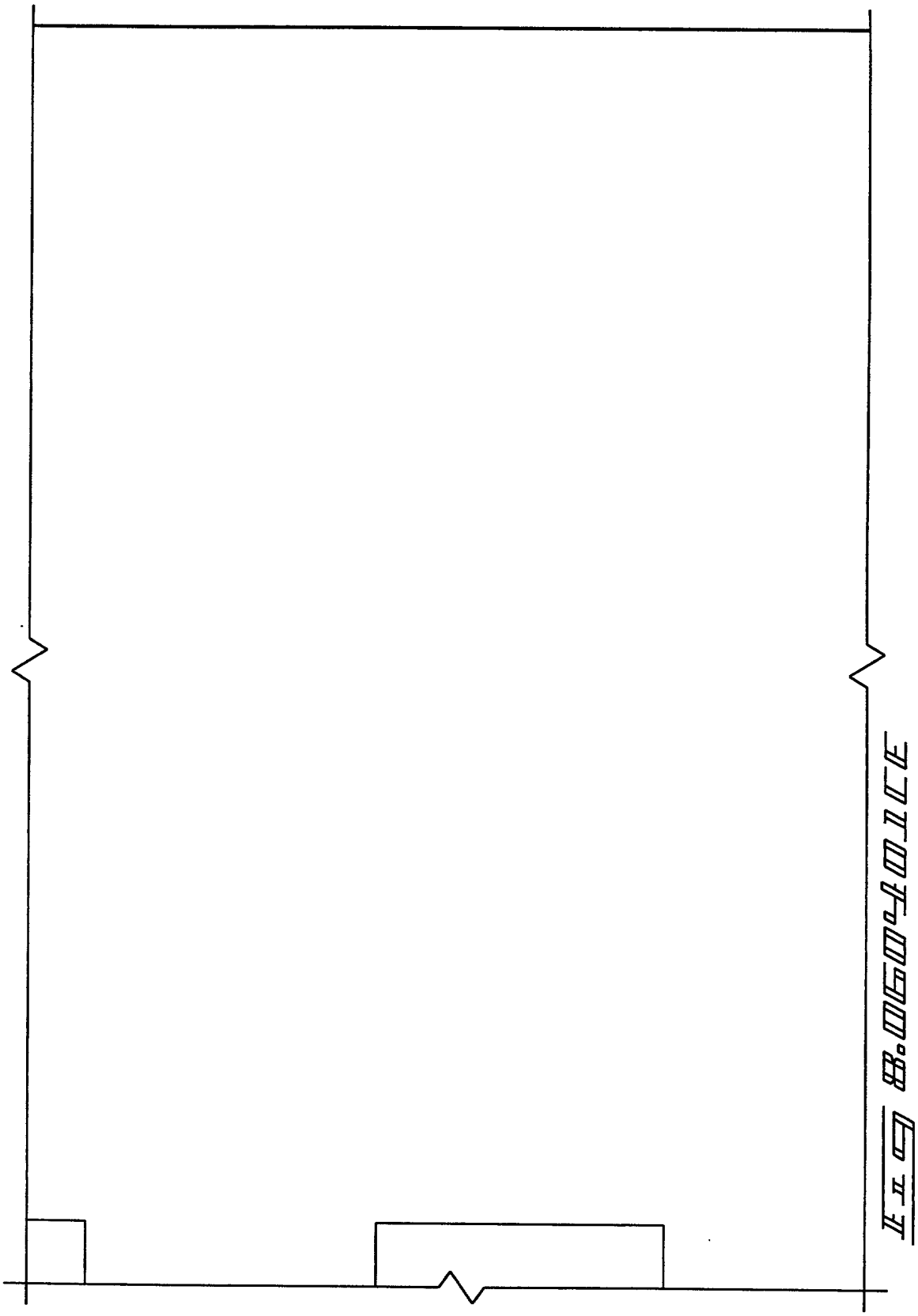


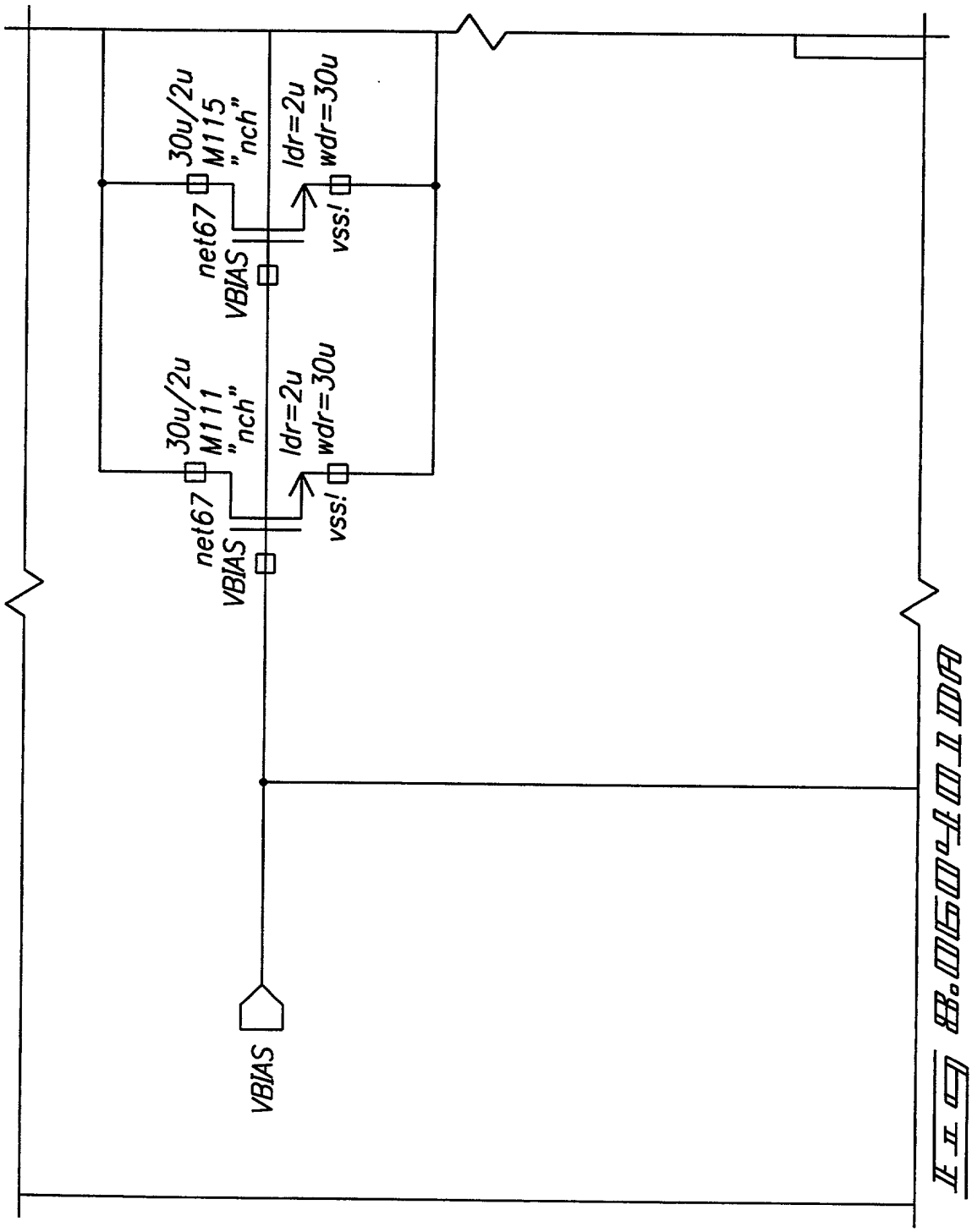
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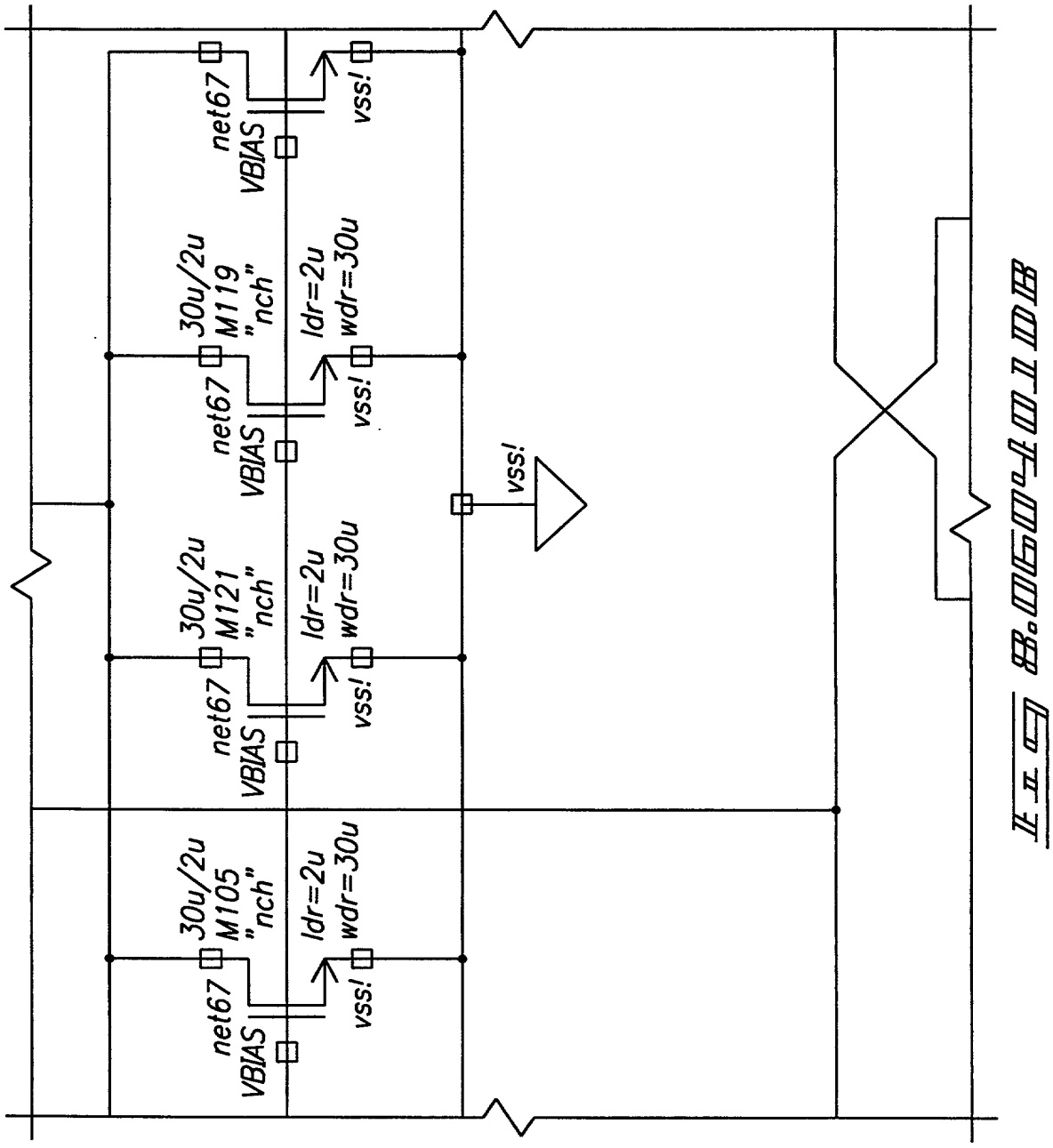
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1949/3273

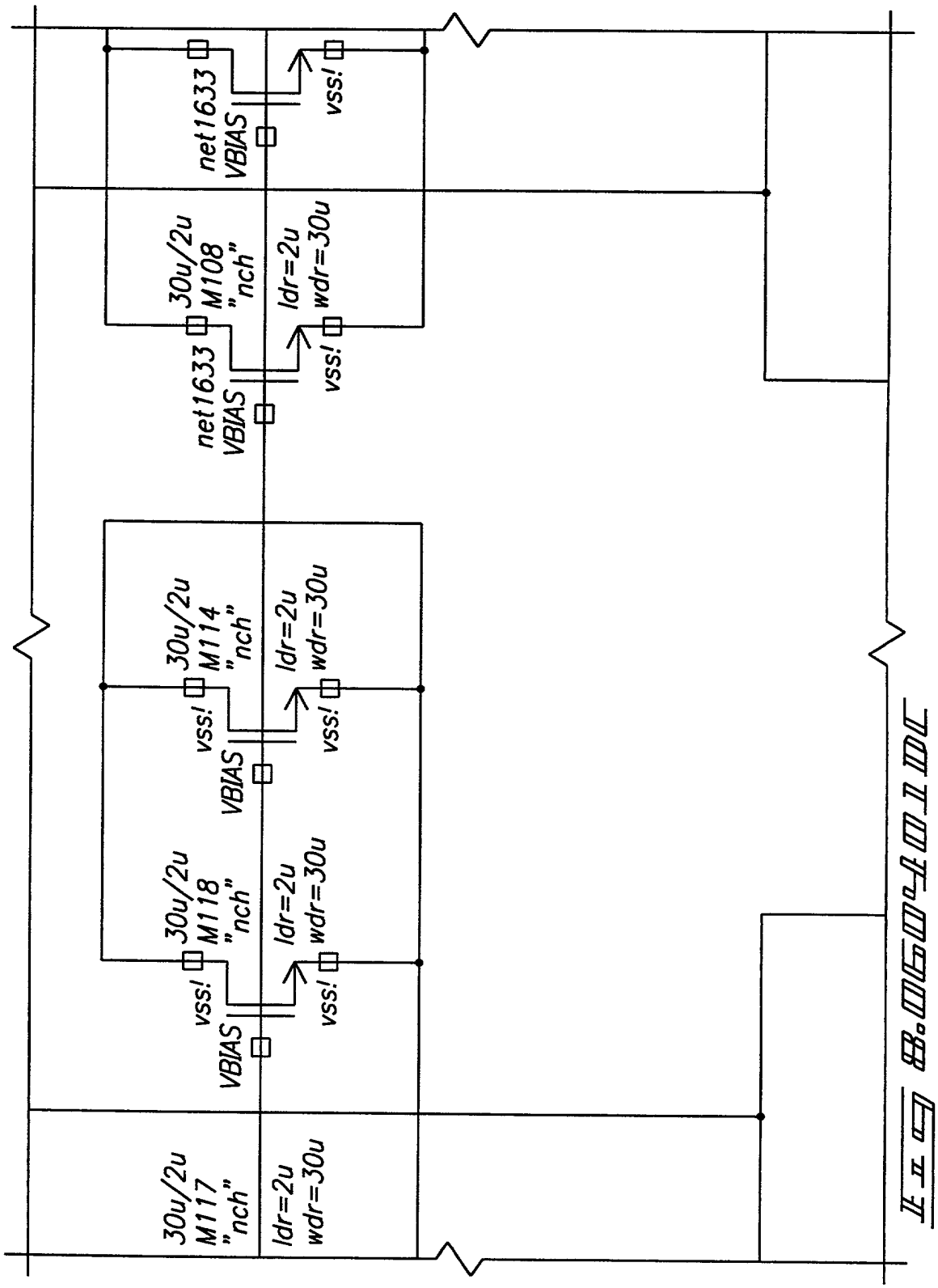


1949/3273

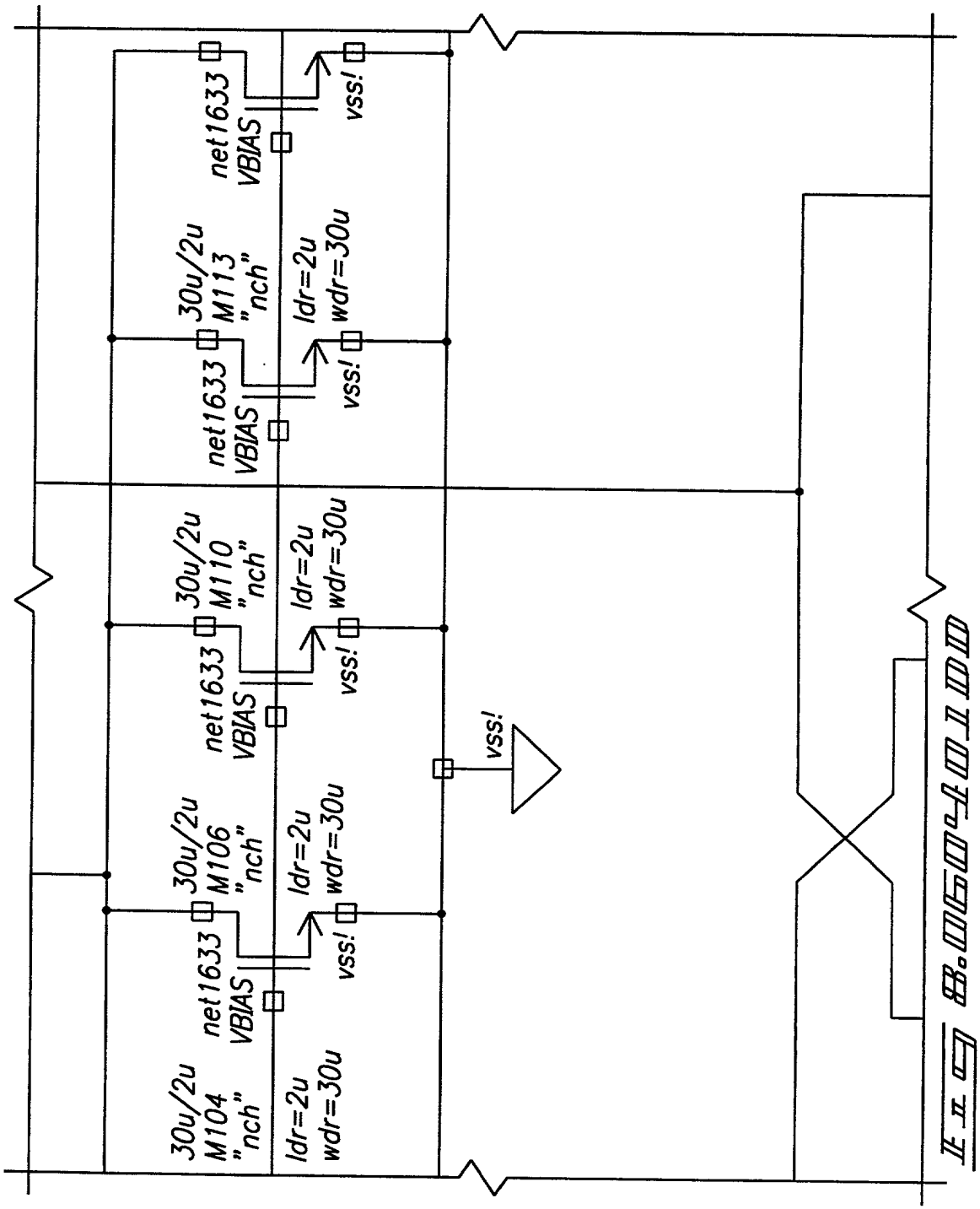

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wdr=30u
net67
VBIAS
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VBIAS

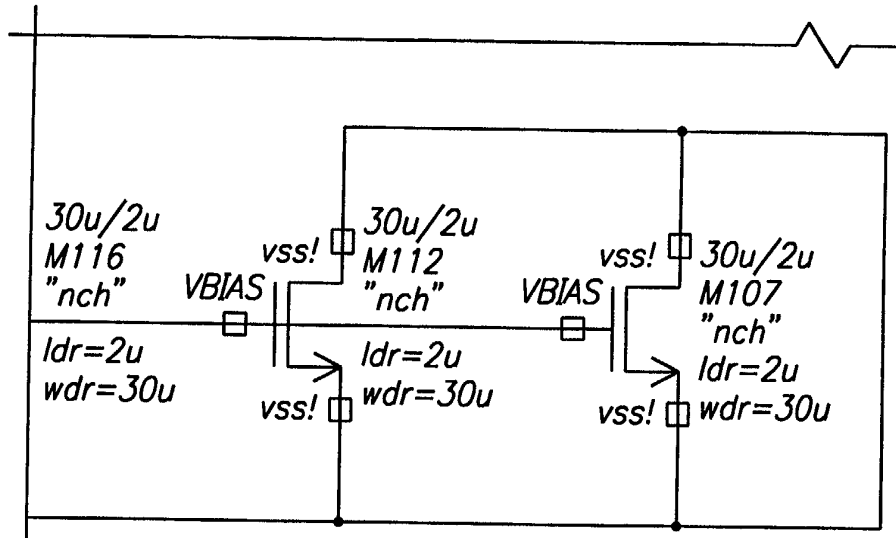


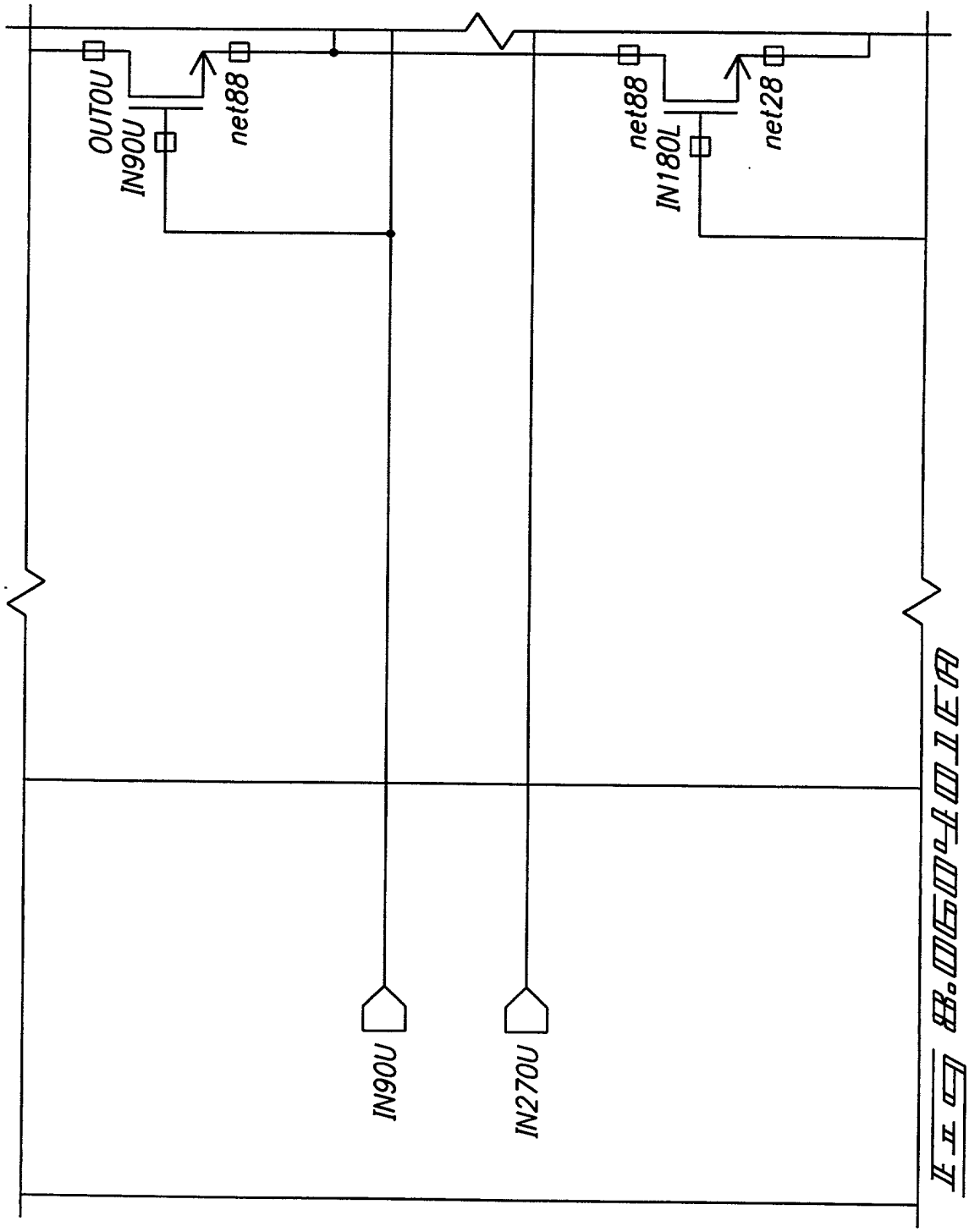
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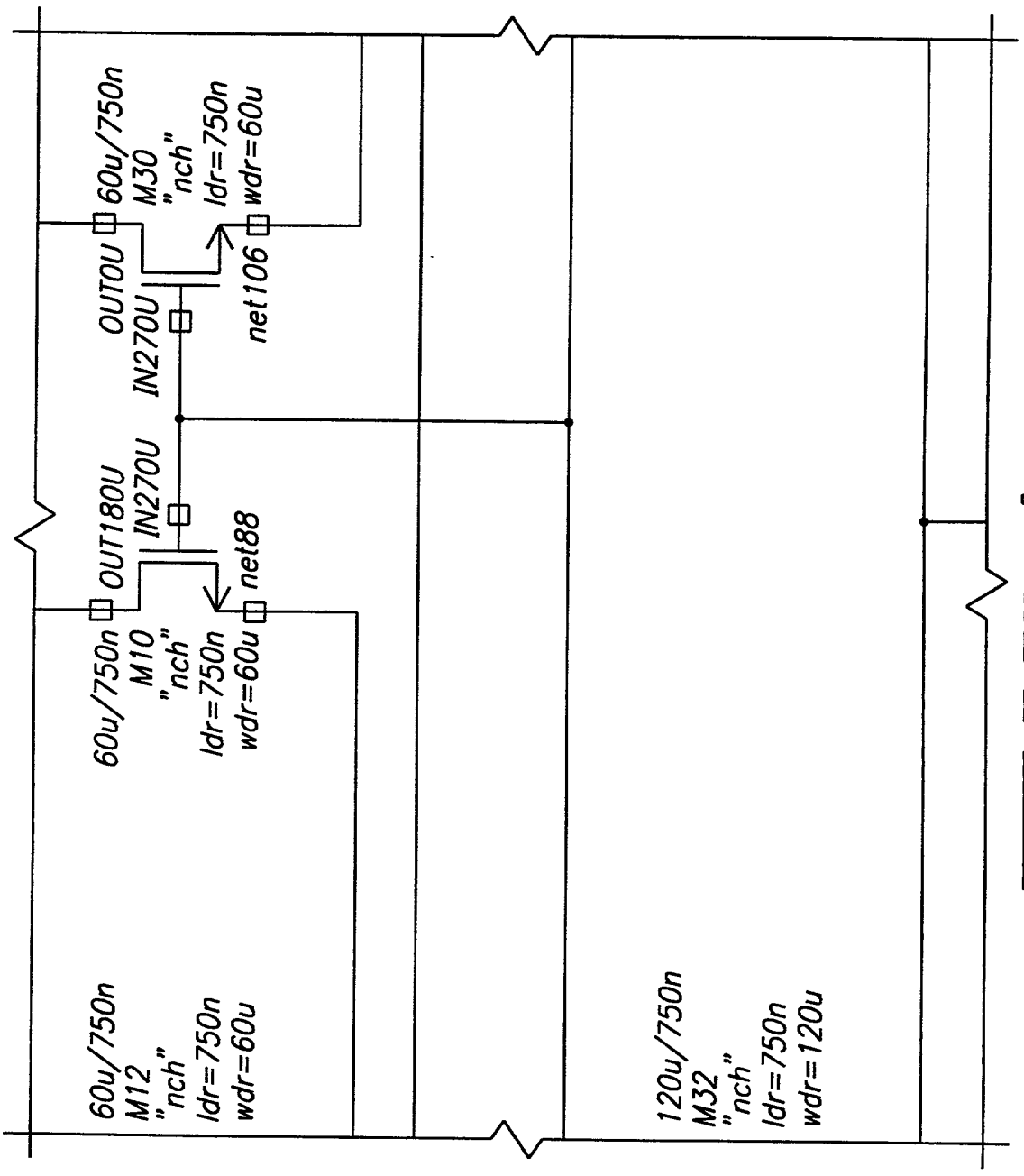
Фиг. 88.0500.00 ТЭ


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ldr=2u
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net1633
VBIAS
30u/2u
M106
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ldr=2u
wdr=30u
vss!
net1633
VBIAS
30u/2u
M110
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wdr=30u
vss!
net1633
VBIAS
30u/2u
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vss!
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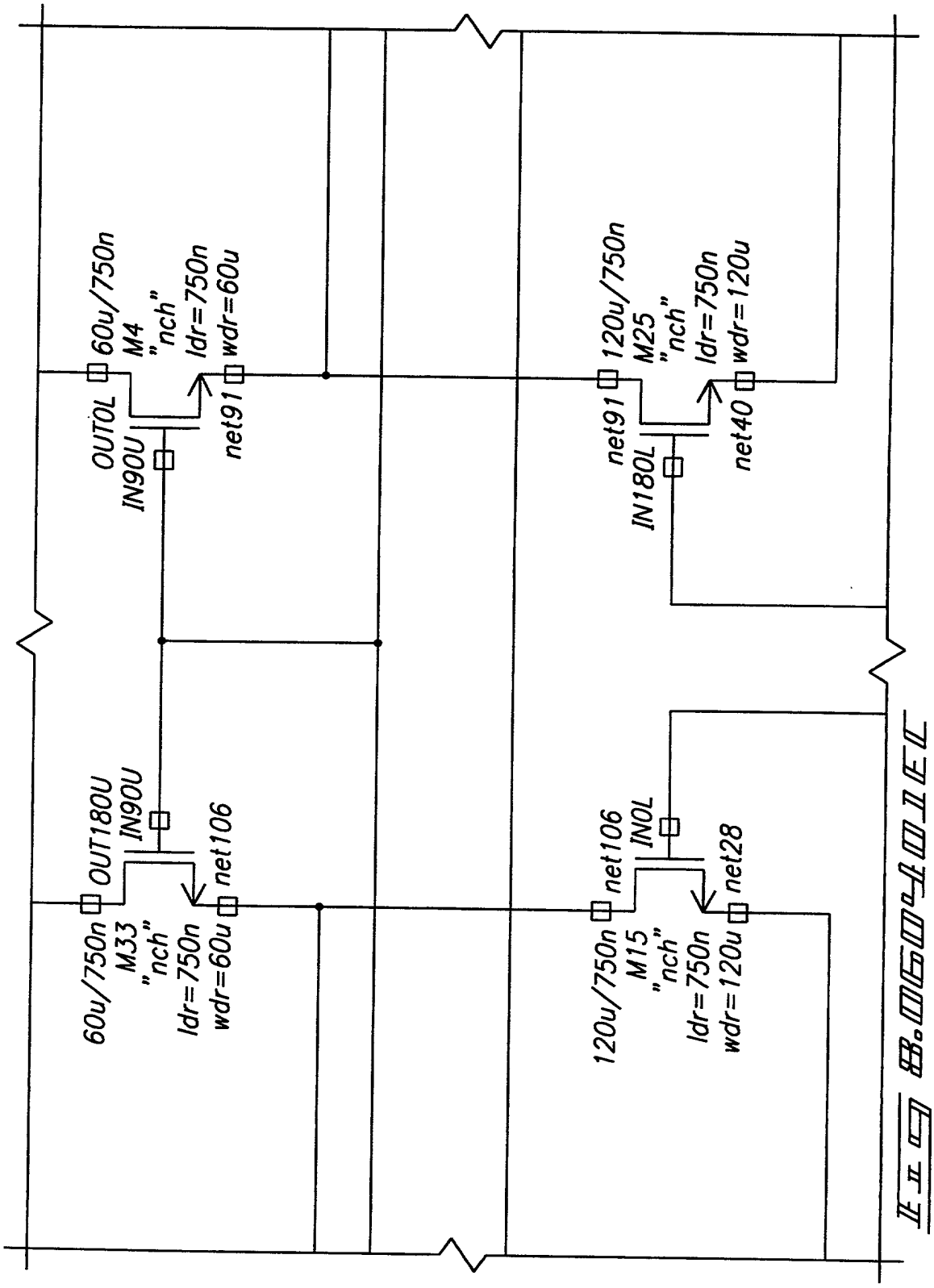

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vss!



US005955905A

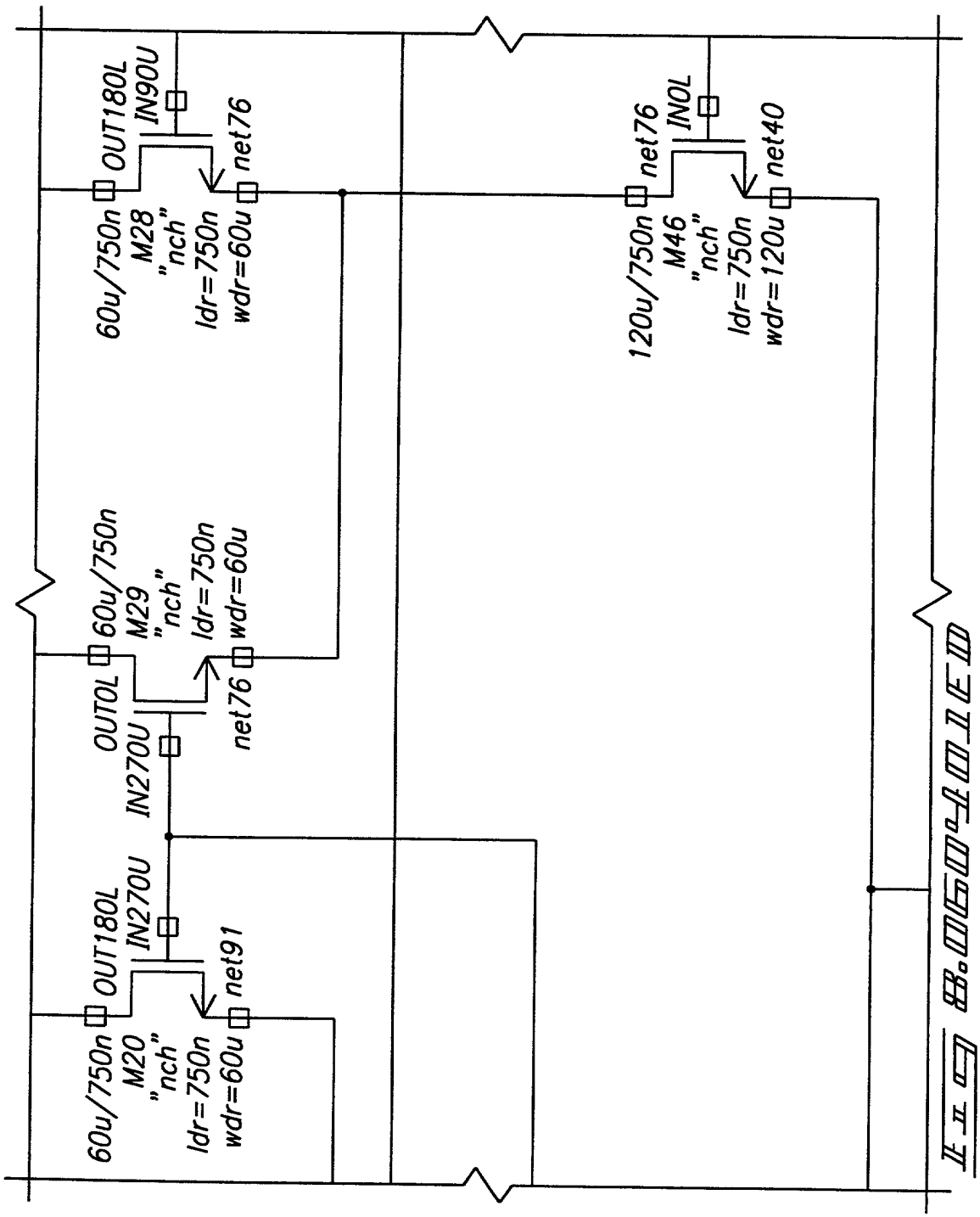


ФИГ 8.005.00.00 ВЗ

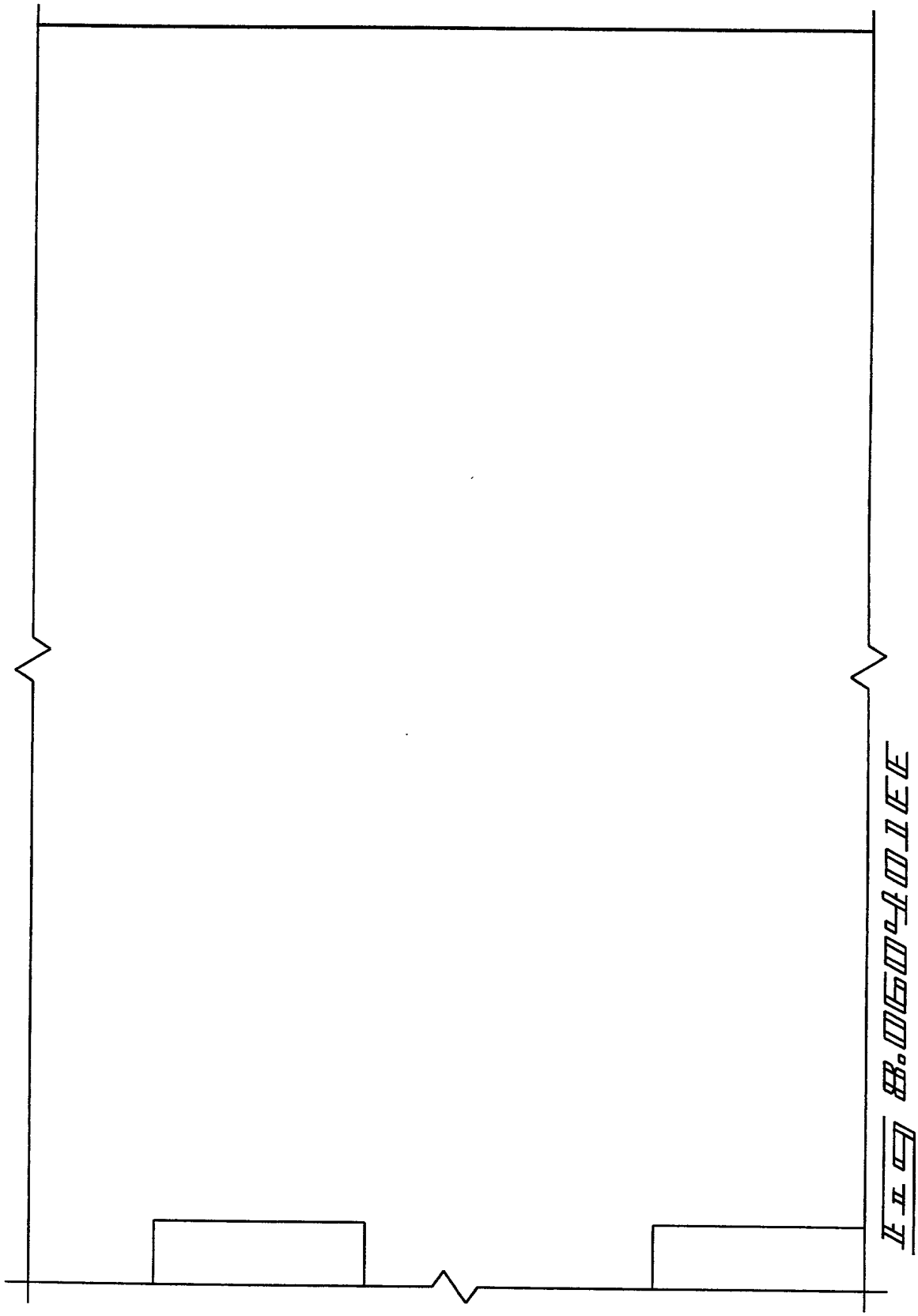


Фиг. 8.0509

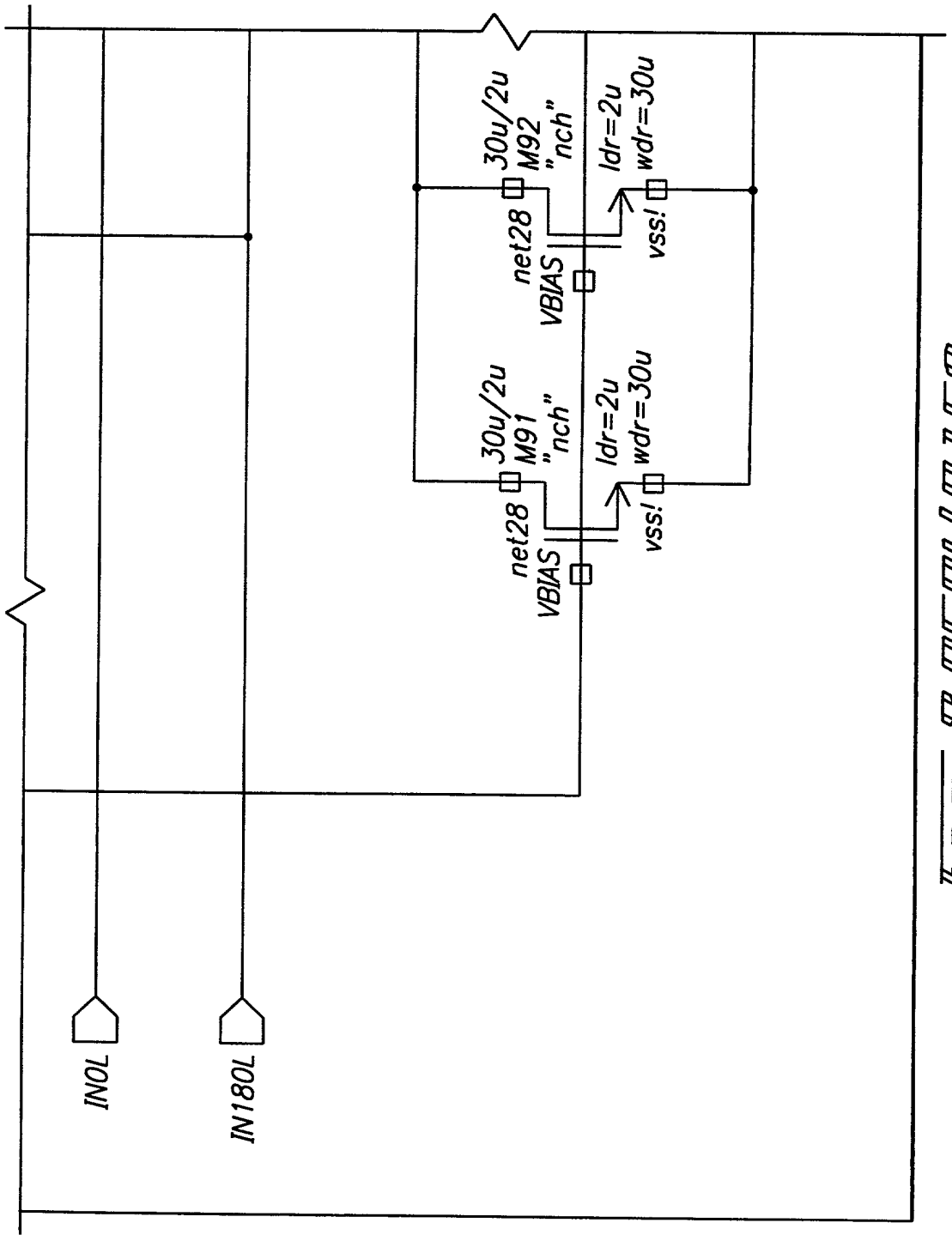
EP 0 509 228 B1


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wdr=60u
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IN270U
net91
OUT0L
IN270U
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ldr=750n
wdr=60u
net76
60u/750n
M28
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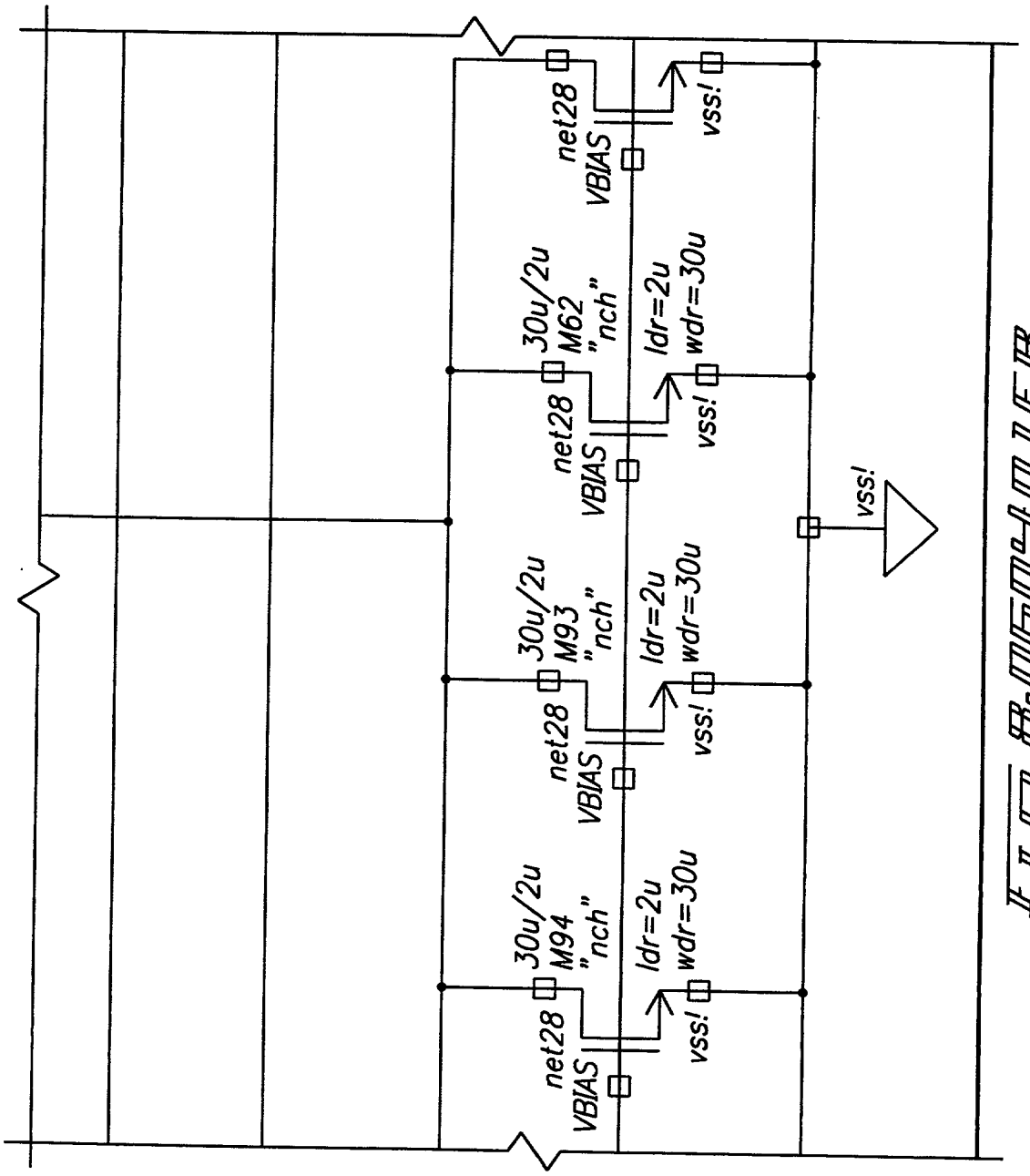
1959/3273



Скенирано с CamScanner



Фиг 8.0504MIFA



Фиг. 8.0500

EP 0 594 299 A1

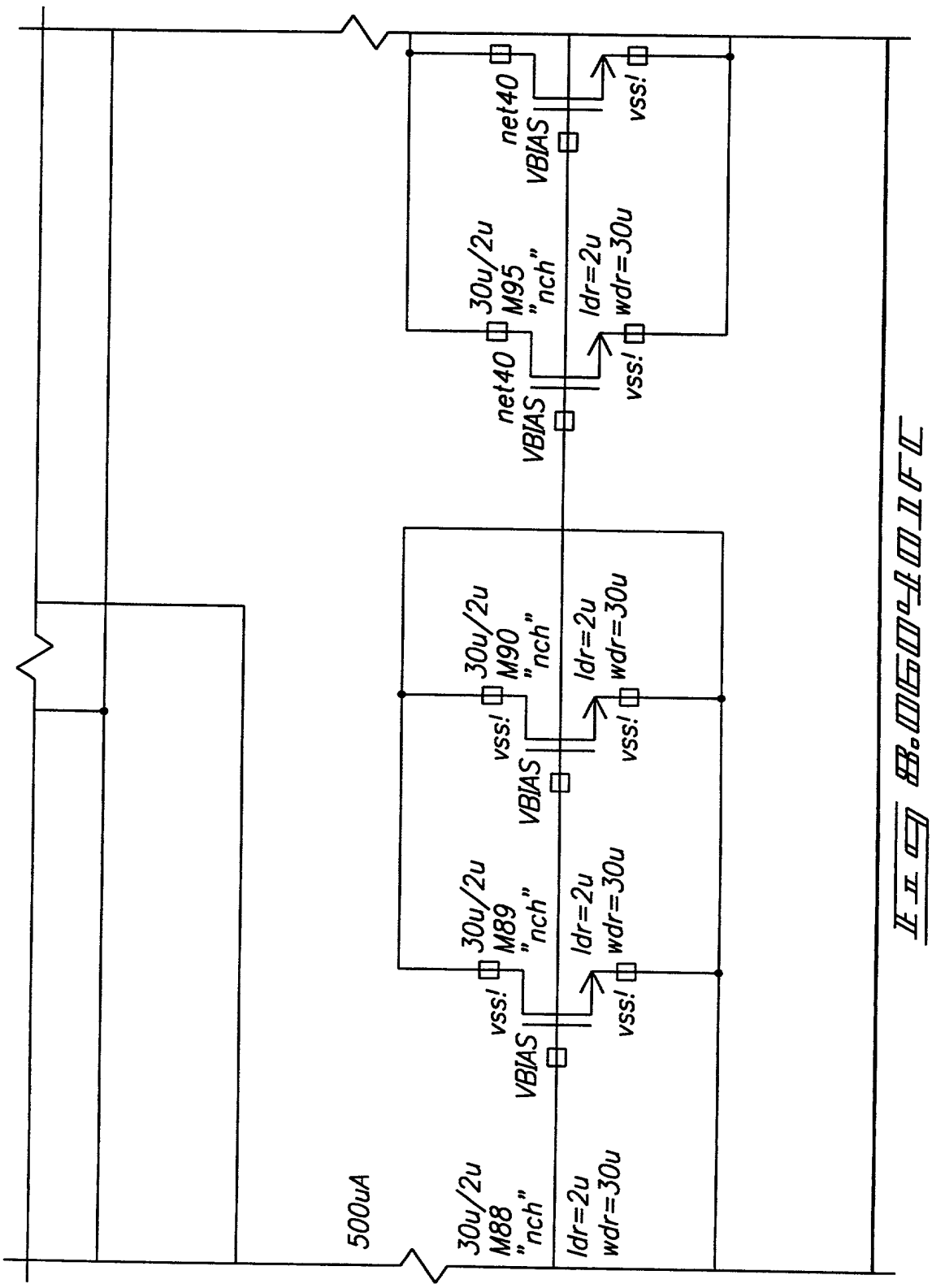
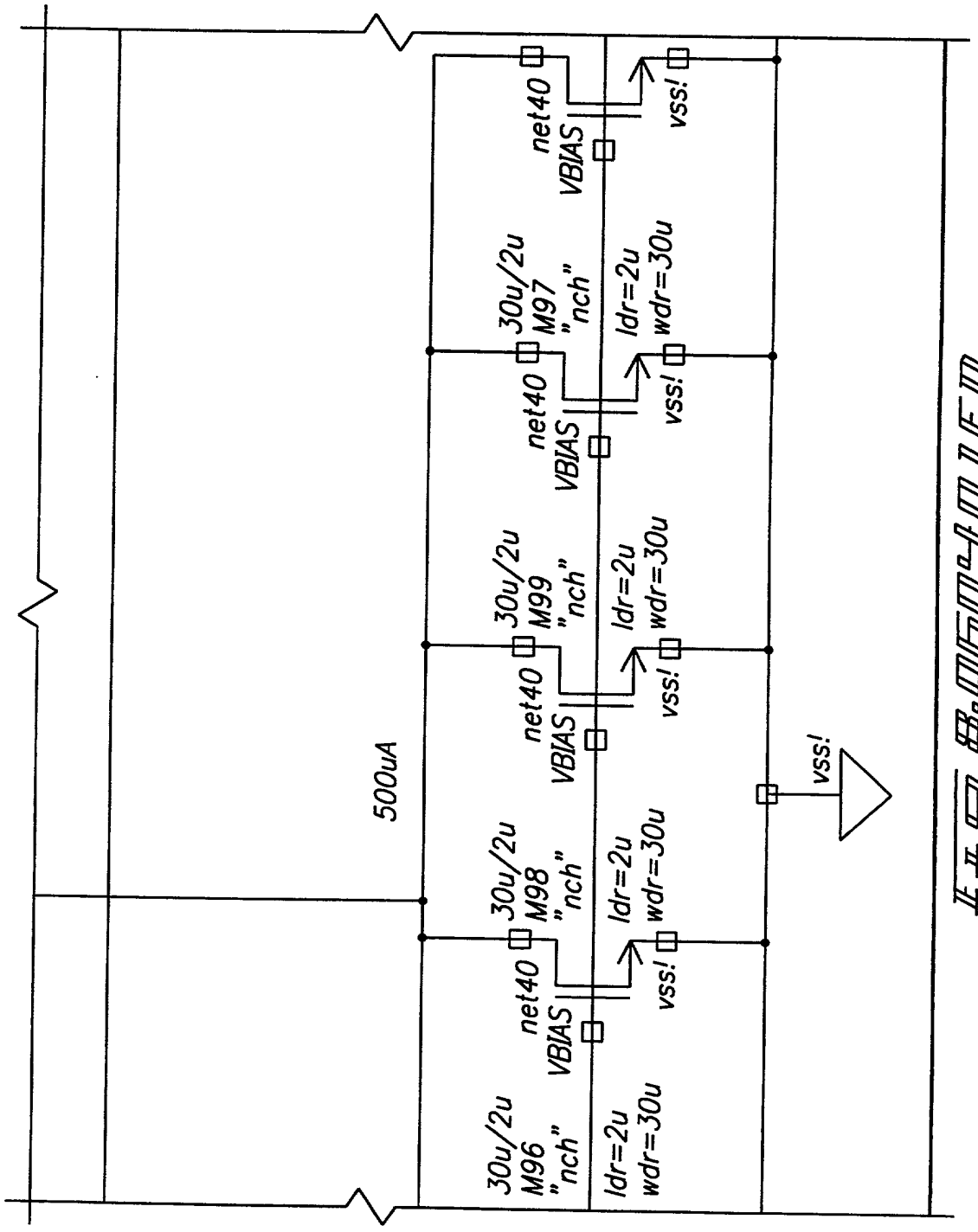


Fig 8.0690 JJ1F

US 5,952,868

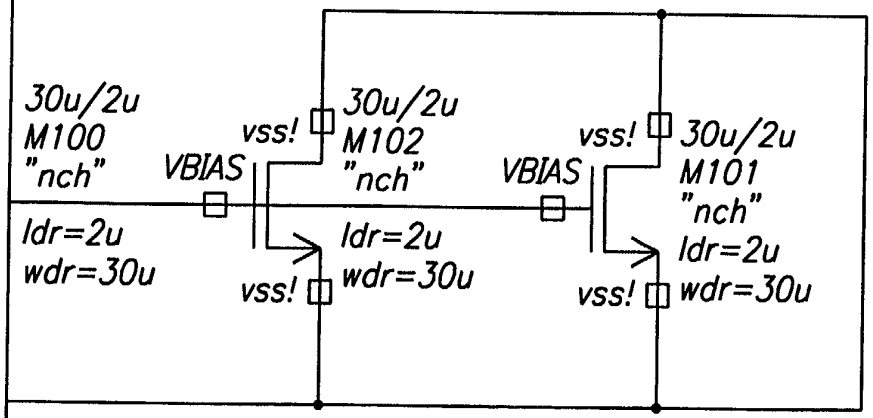


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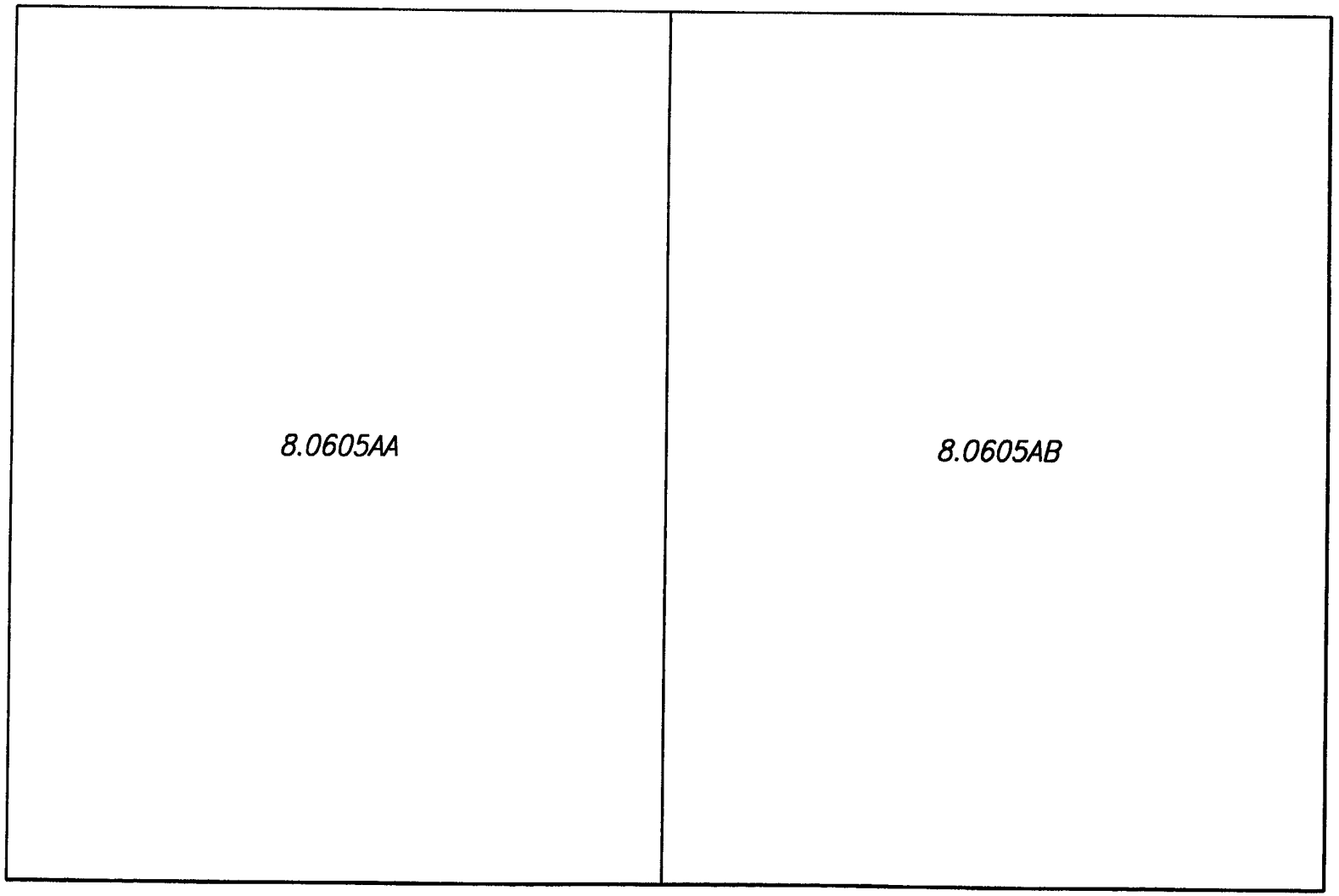
NOTES

Use 50u segments for all devices.
Minimize capacitance on all nodes (drains have priority).
Share all source and drain nodes.
Allow +/- 20% adjustment on resistors at power supply end.

IBIAS=2mA

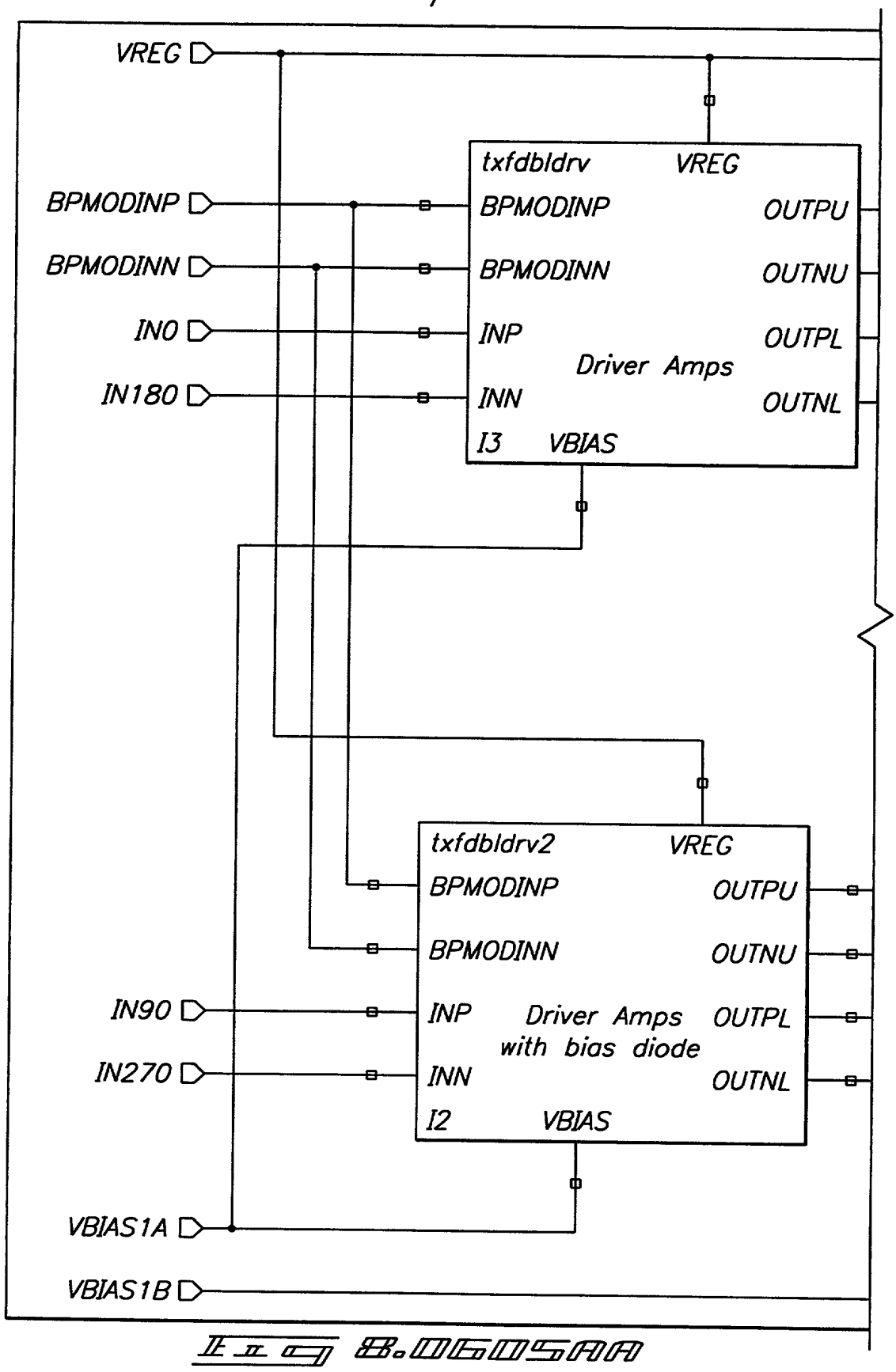


T0T190"E9N22860



Lot 8.0605

1965/3273



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Distribution Unlimited

1967/3273

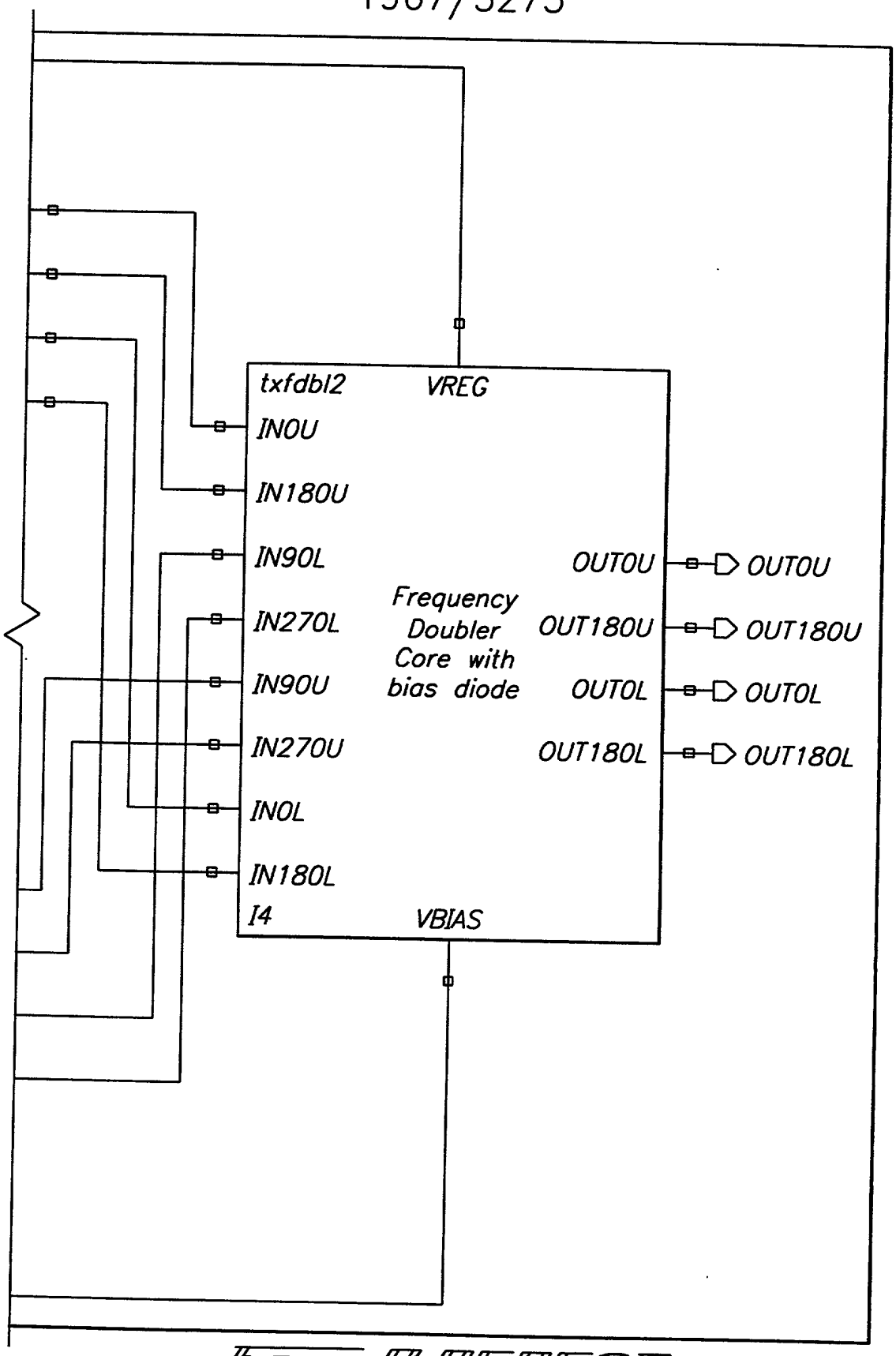


Fig 8.0605AB

1968/3273

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8.060501BA	8.060501BB	8.060501BC	8.060501BD
8.060501CA	8.060501CB	8.060501CC	8.060501CD

Fig 8.060501

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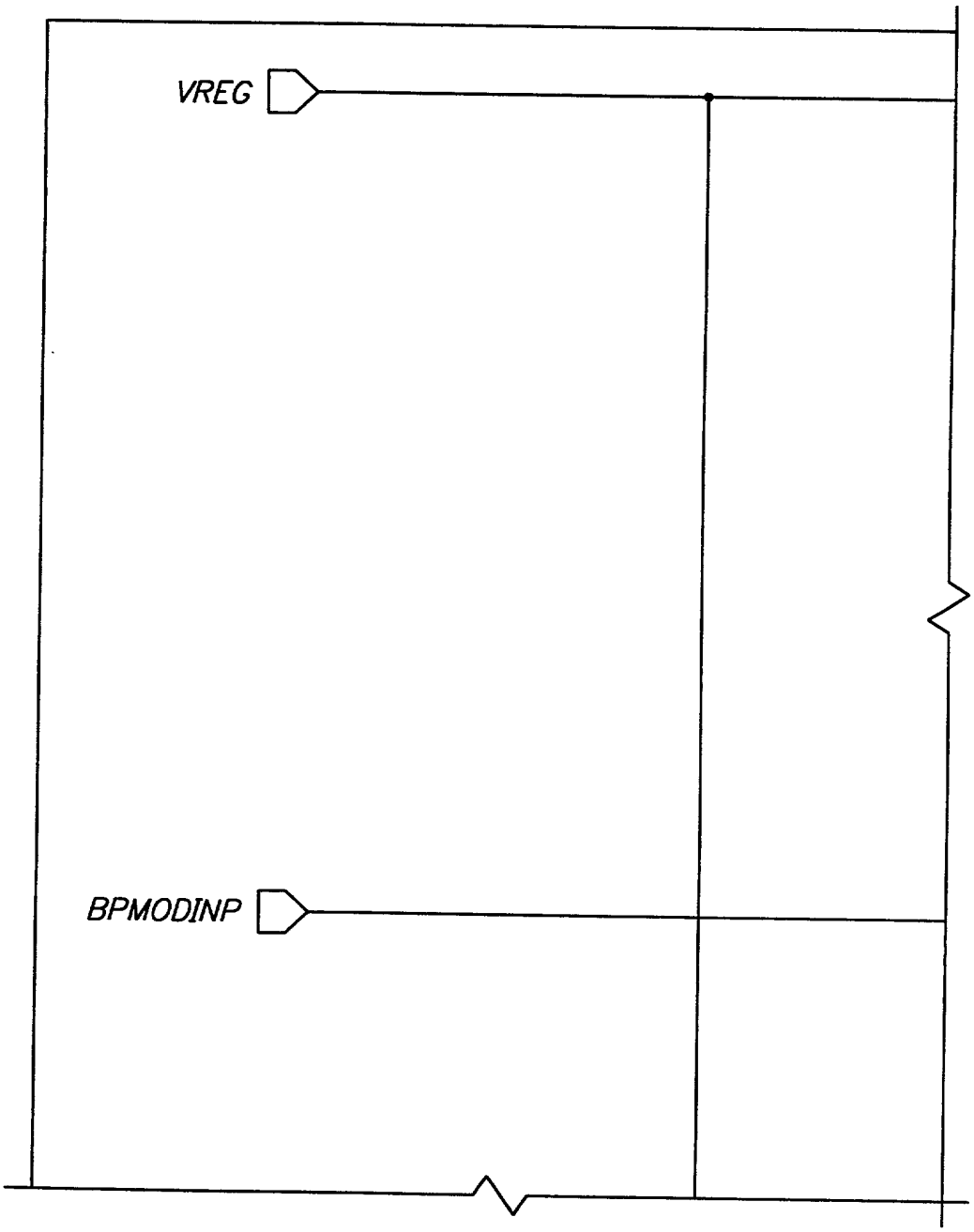


Fig 8.0605011AA

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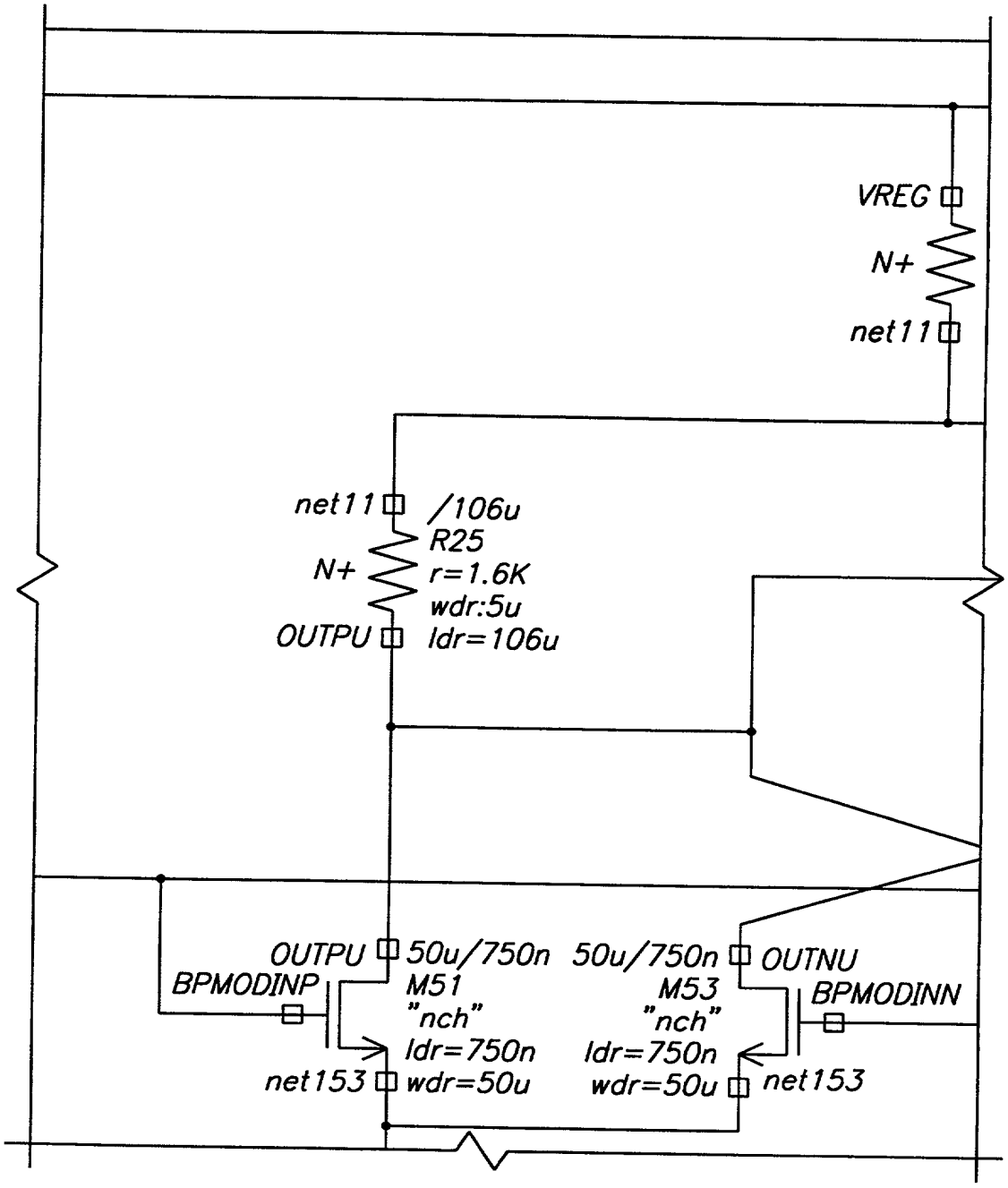
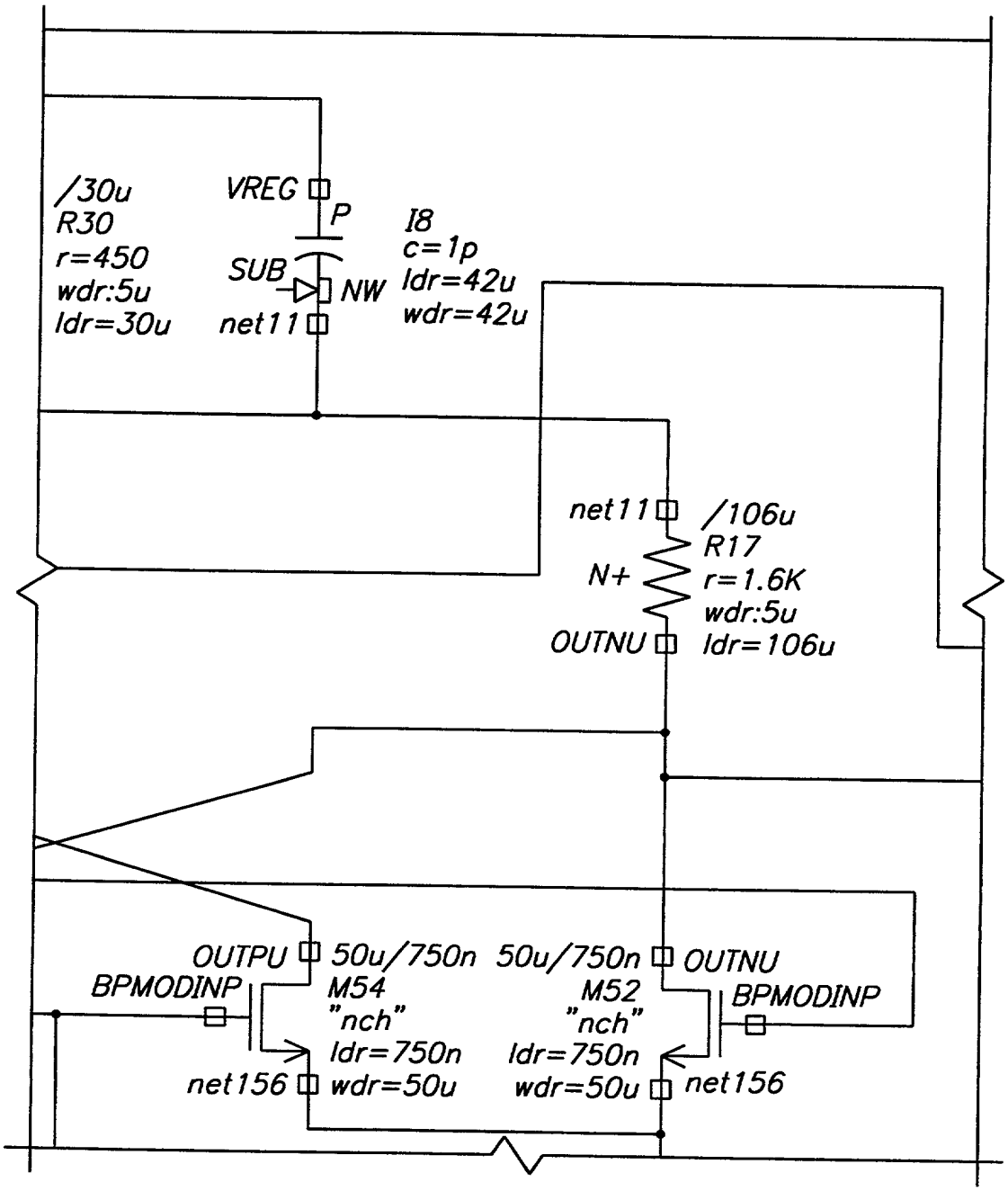


Fig 8.060501AB



Фиг 8.060501AC

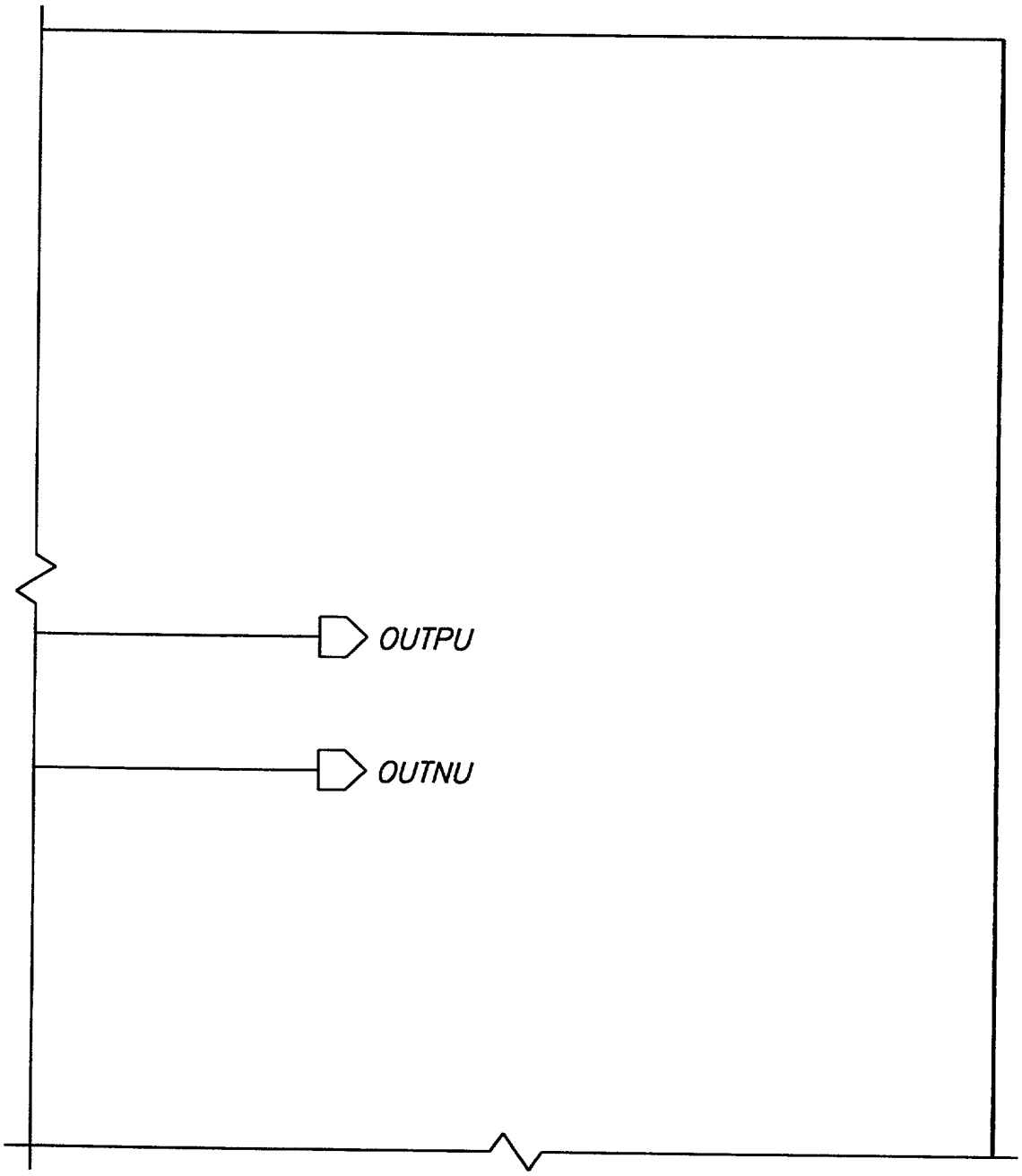


Fig 8.0605010

D5605010

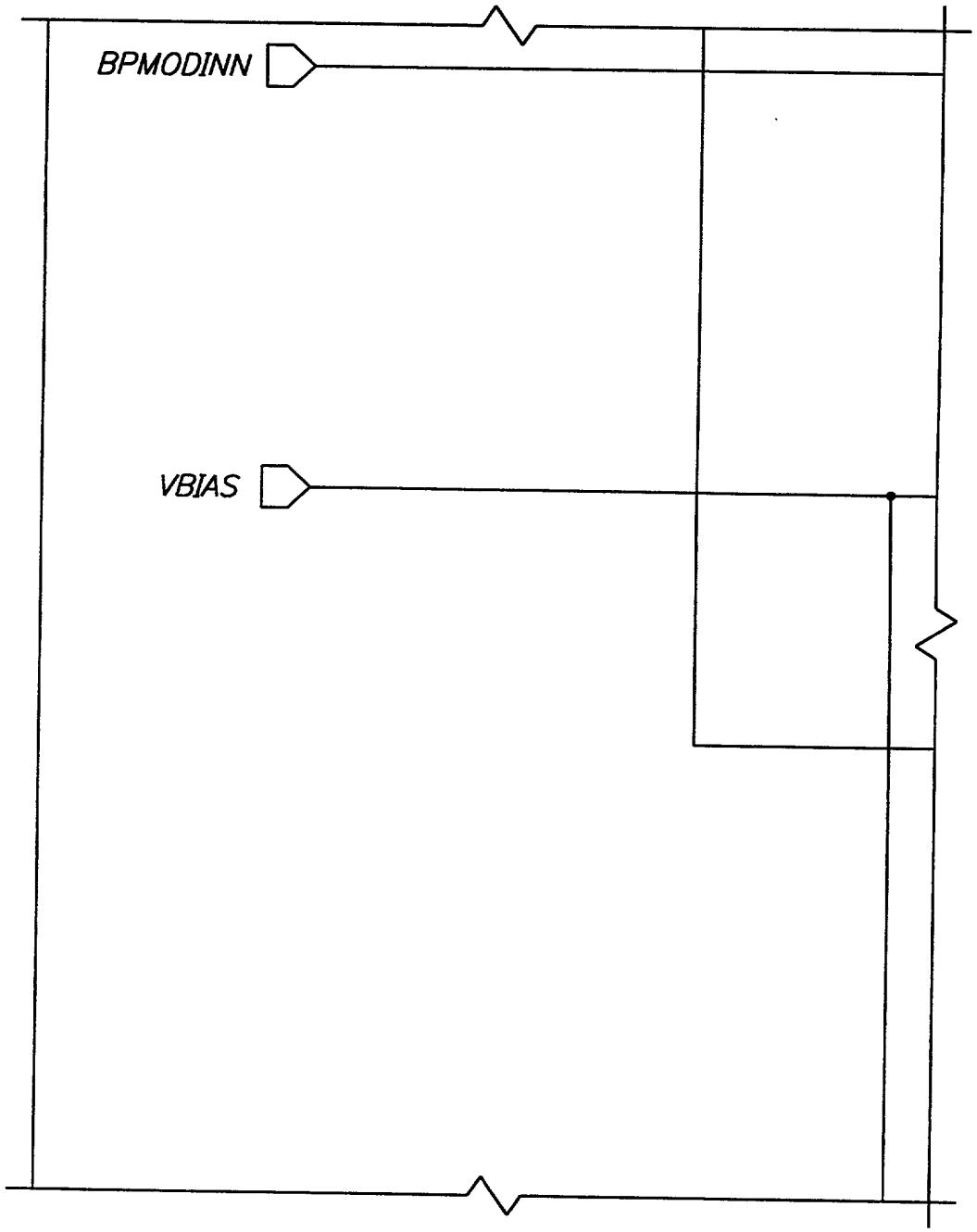


Fig 8.0605011BA

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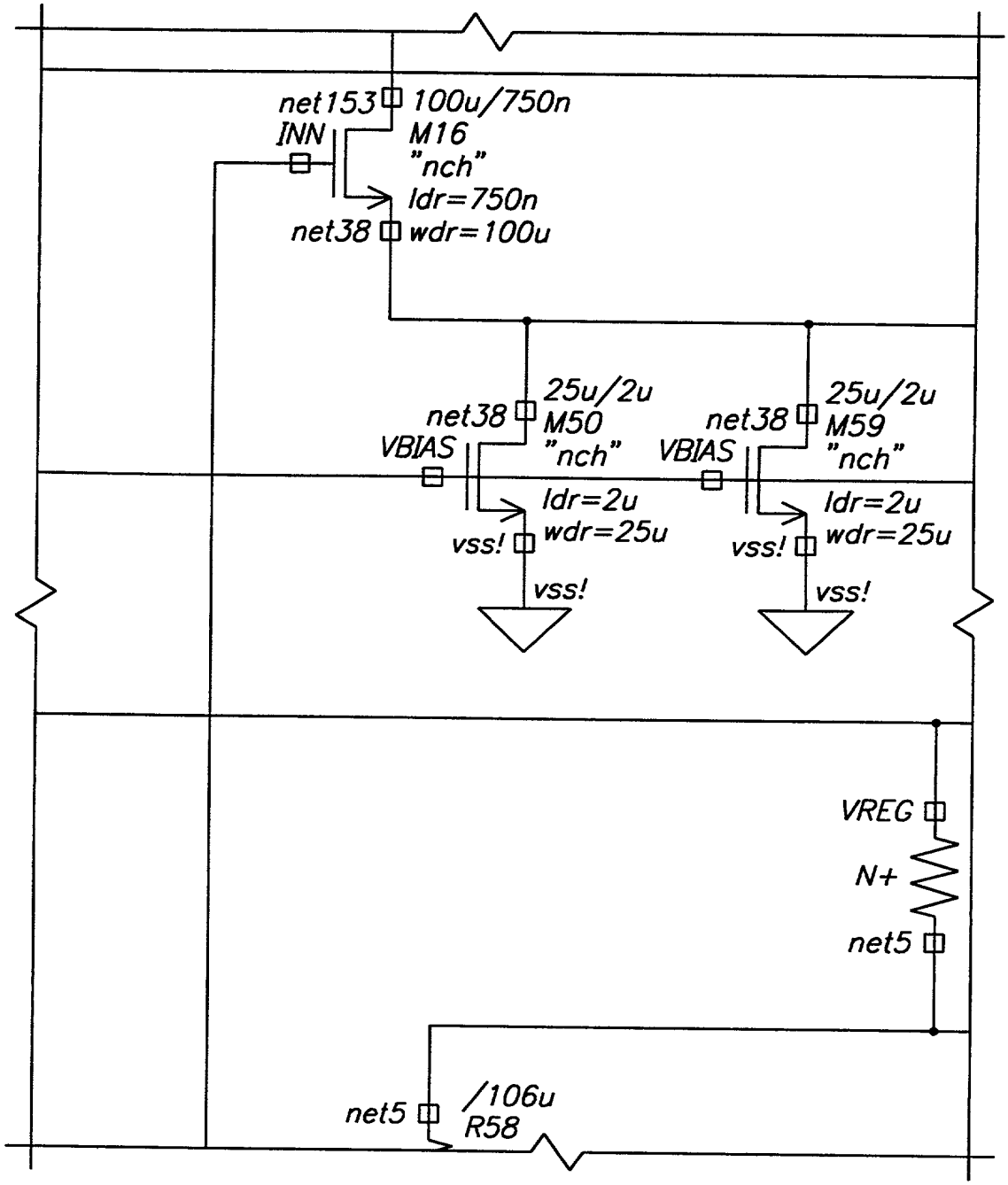


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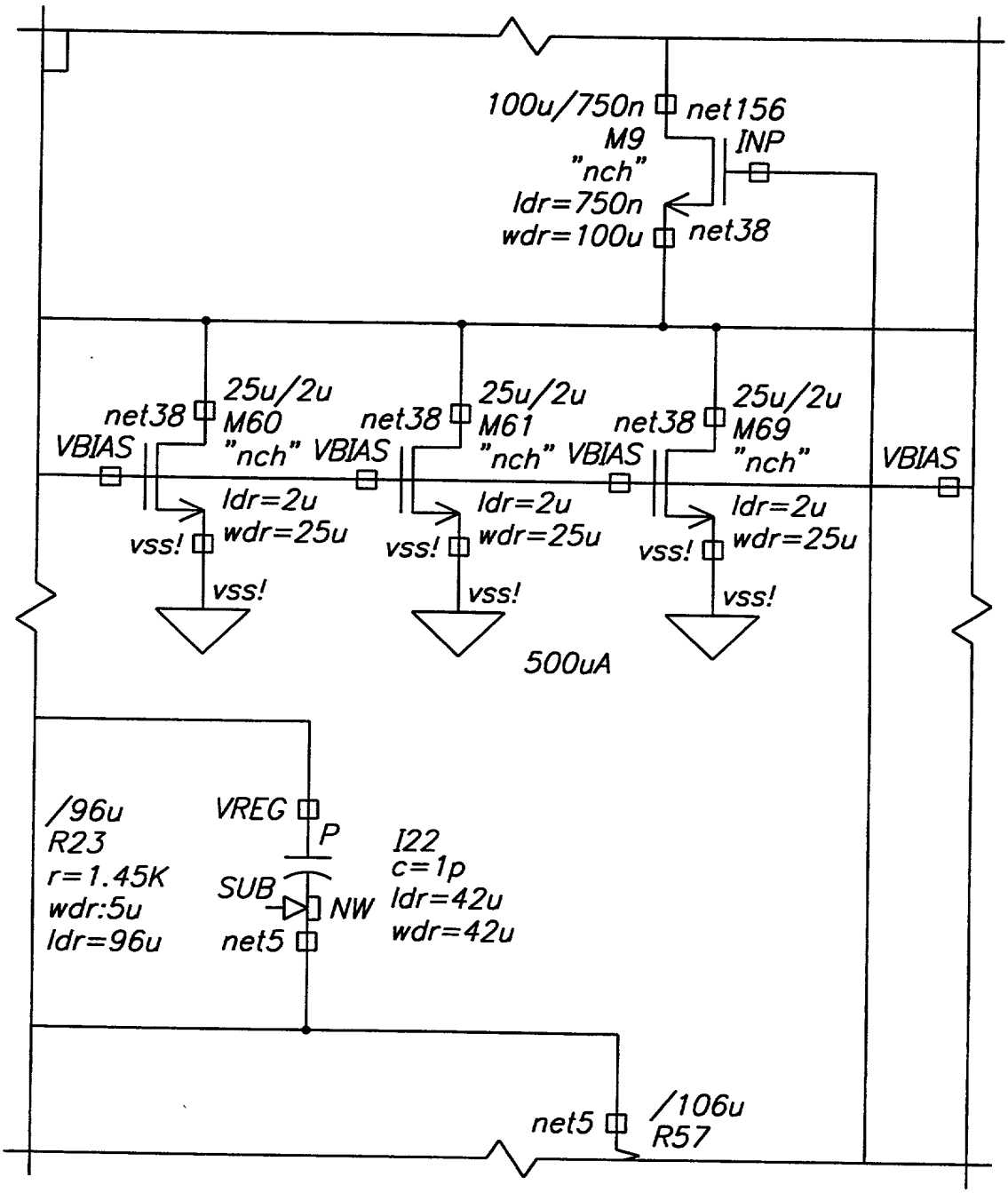


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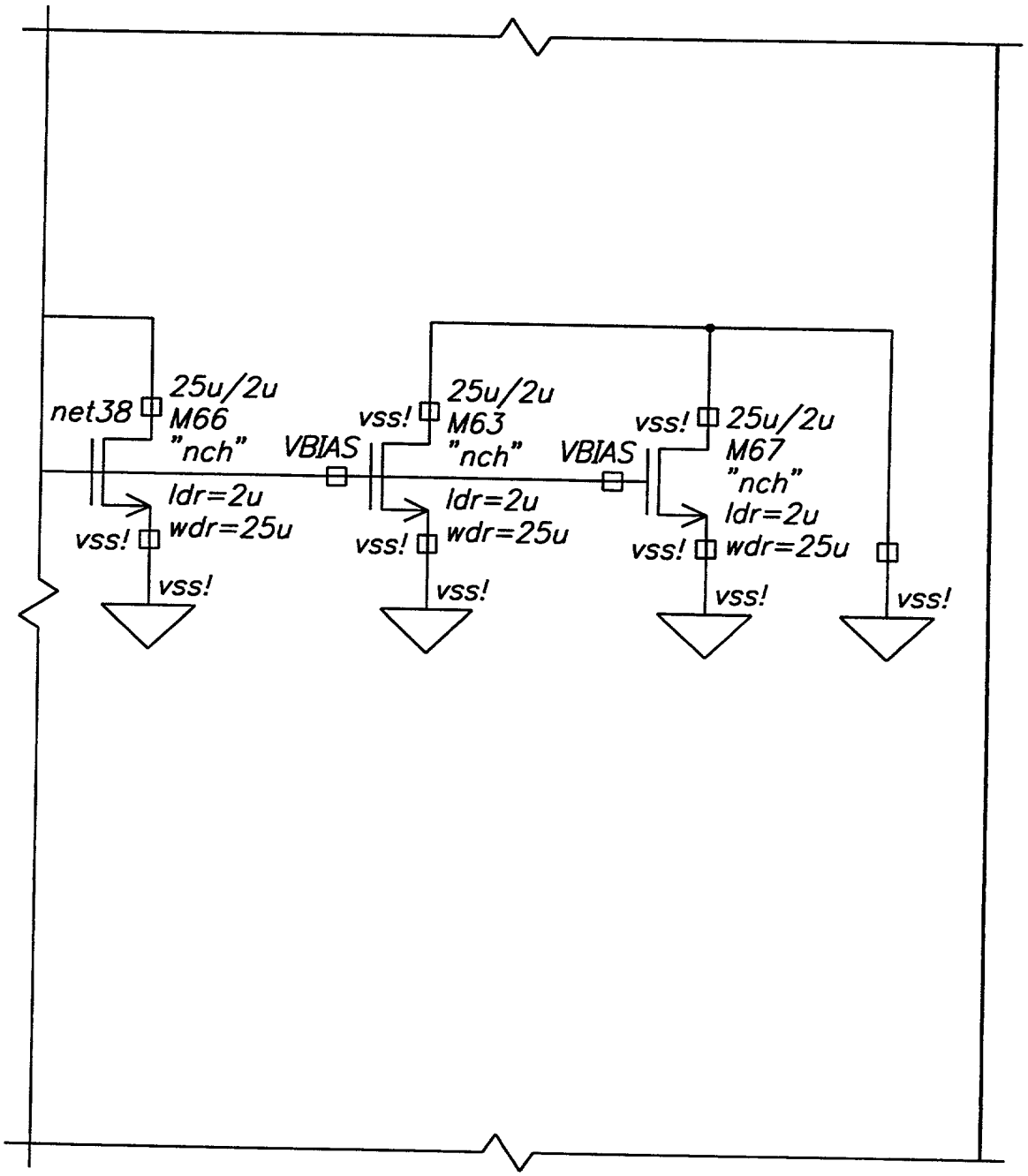


Fig 8.060501BD

D5602560-060501

1977/3273

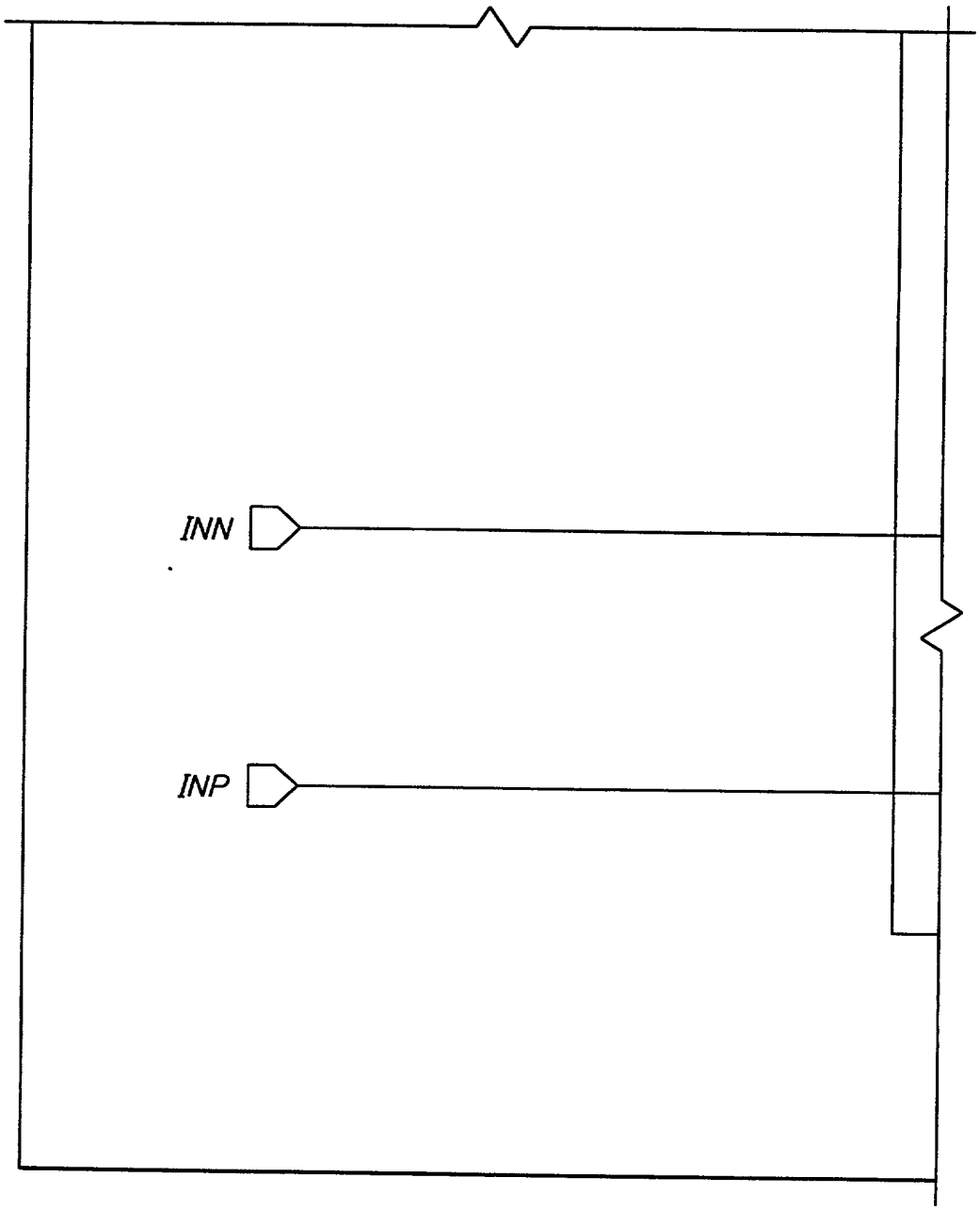


Fig 8.0605011CA

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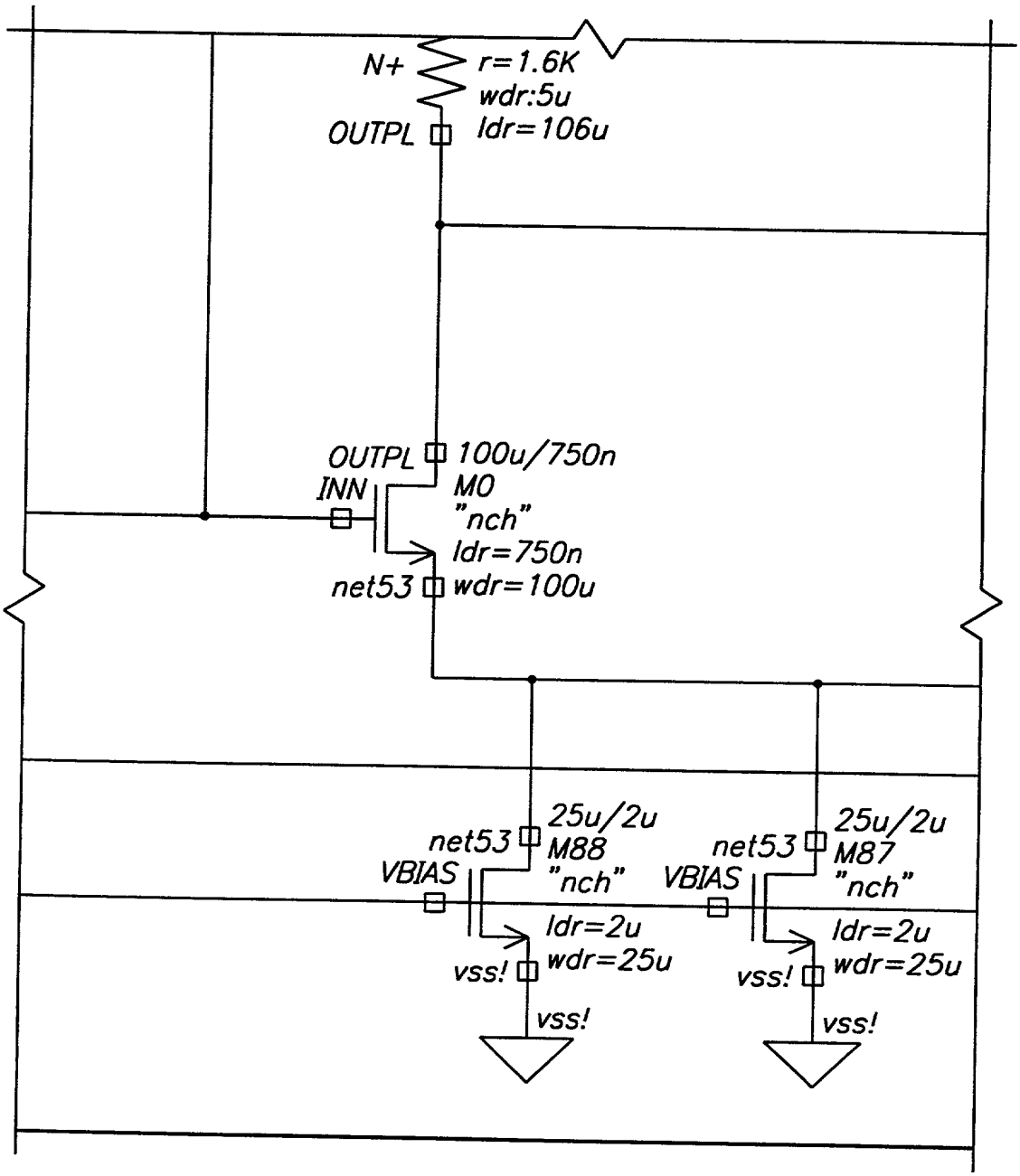


Fig 8.060501CB

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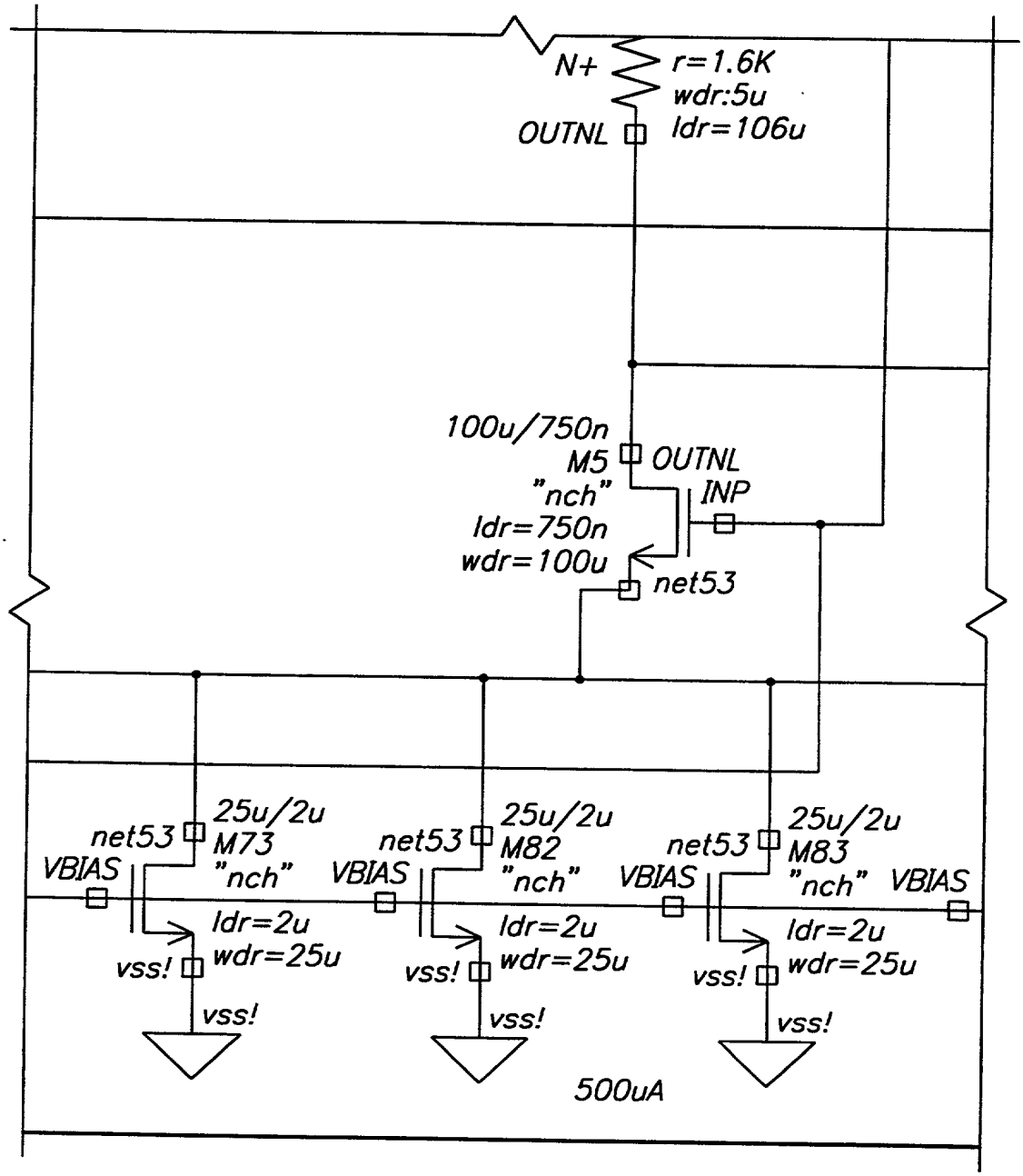
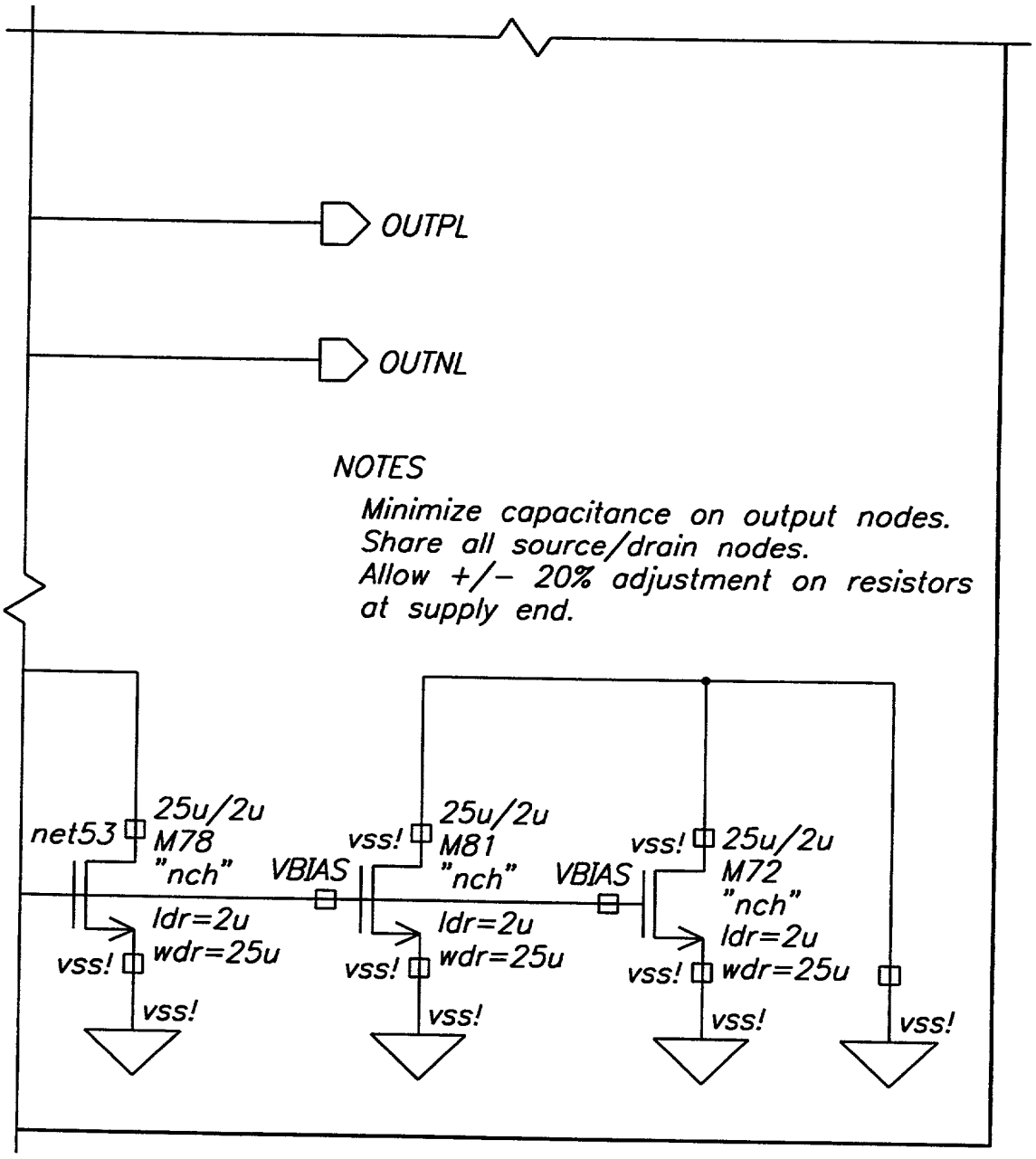


Fig 8.060501CC


OUTPL
OUTNL
NOTES
Minimize capacitance on output nodes.
Share all source/drain nodes.
Allow +/- 20% adjustment on resistors at supply end.
net53
25u/2u
M78
"nch"
ldr=2u
wdr=25u
vss!
VBIAS
vss!
25u/2u
M81
"nch"
ldr=2u
wdr=25u
vss!
VBIAS
vss!
25u/2u
M72
"nch"
ldr=2u
wdr=25u
vss!
vss!

Exhibit

1981/3273

8.060502AA	8.060502AB	8.060502AC	8.060502AD
8.060502BA	8.060502BB	8.060502BC	8.060502BD
8.060502CA	8.060502CB	8.060502CC	8.060502CD

Fig 8.060502

D5622005 - 05.5.95

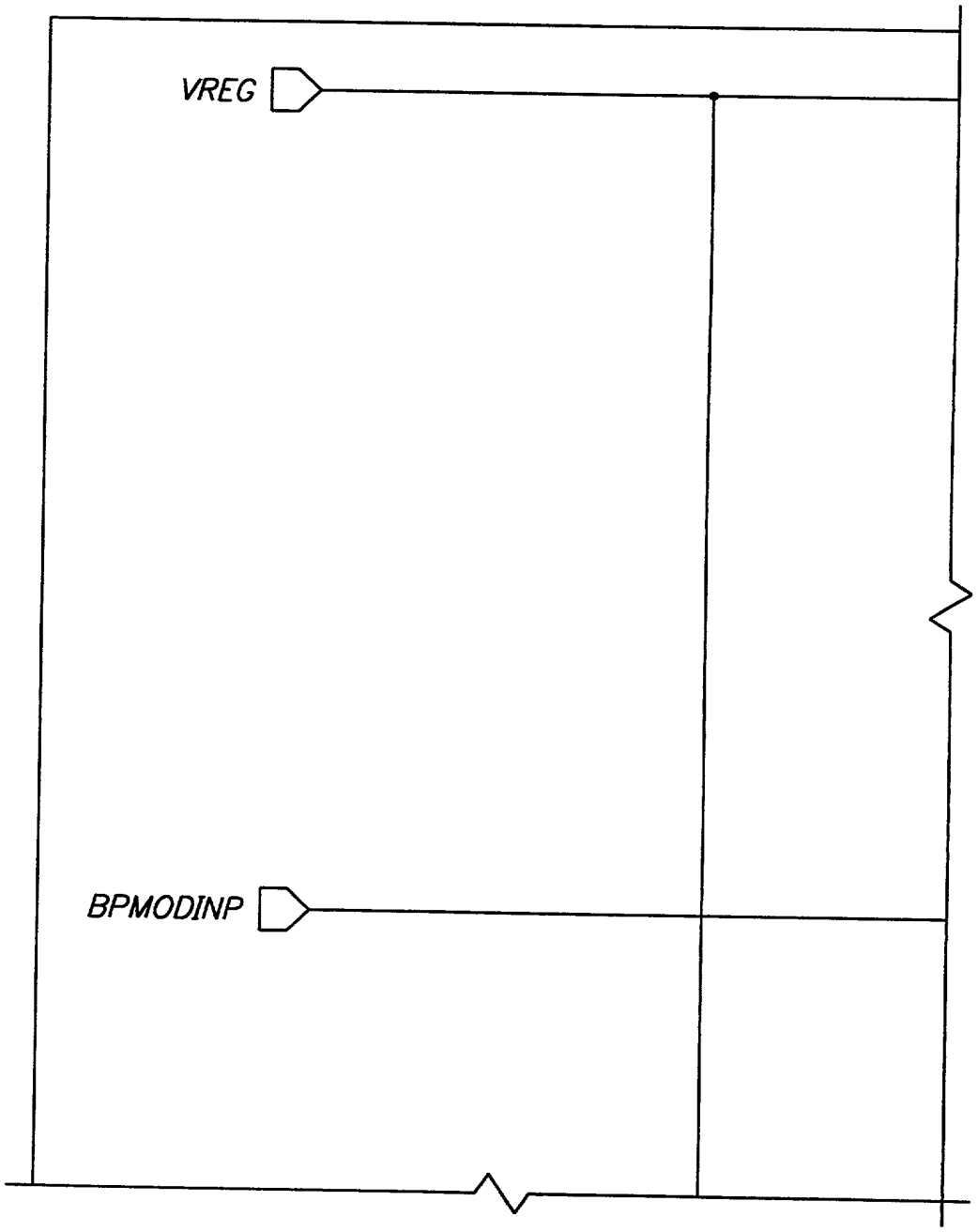


Fig 8.0605002AA

US6225805B1

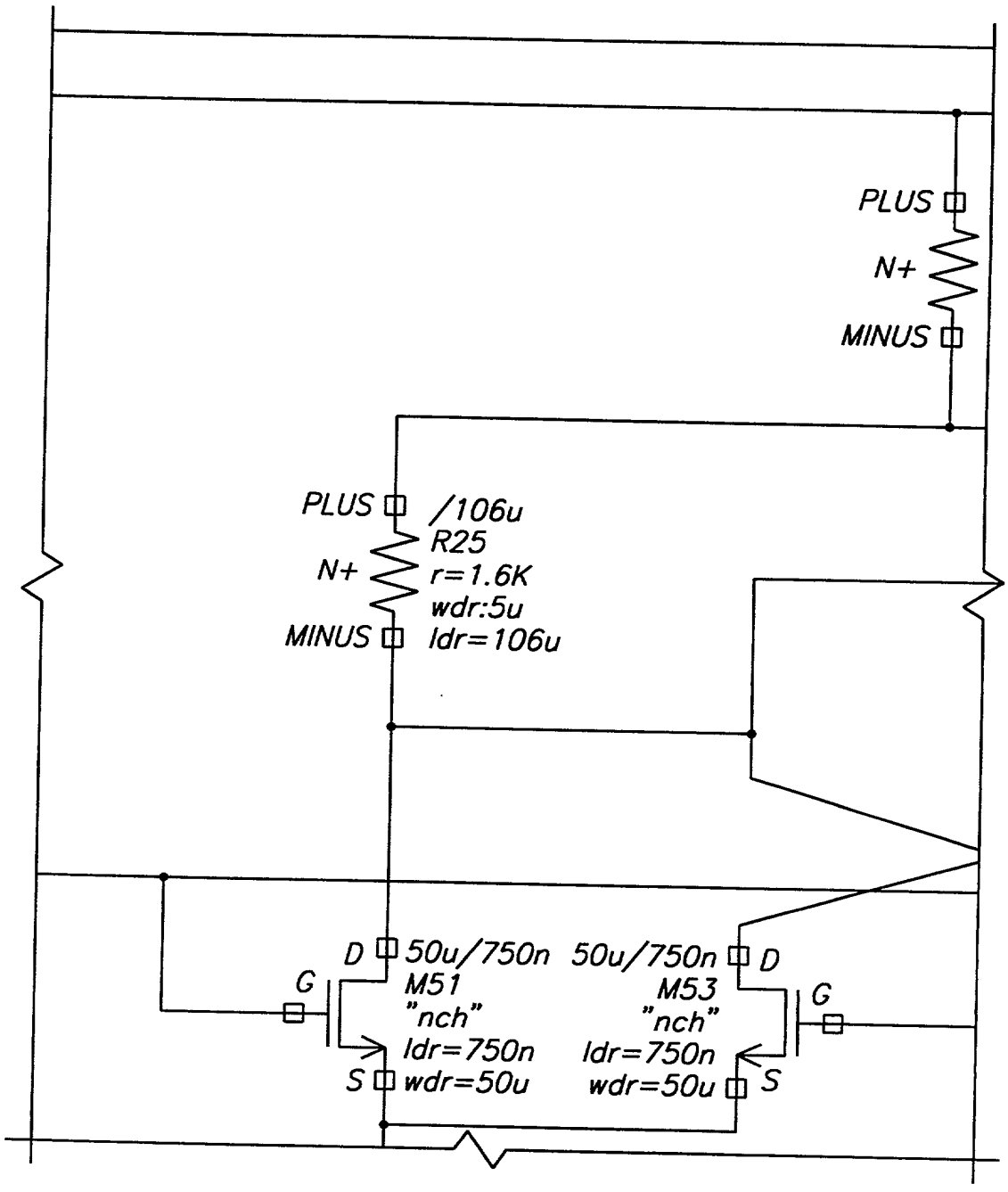


Fig 8.0605028AB

0562605-050404

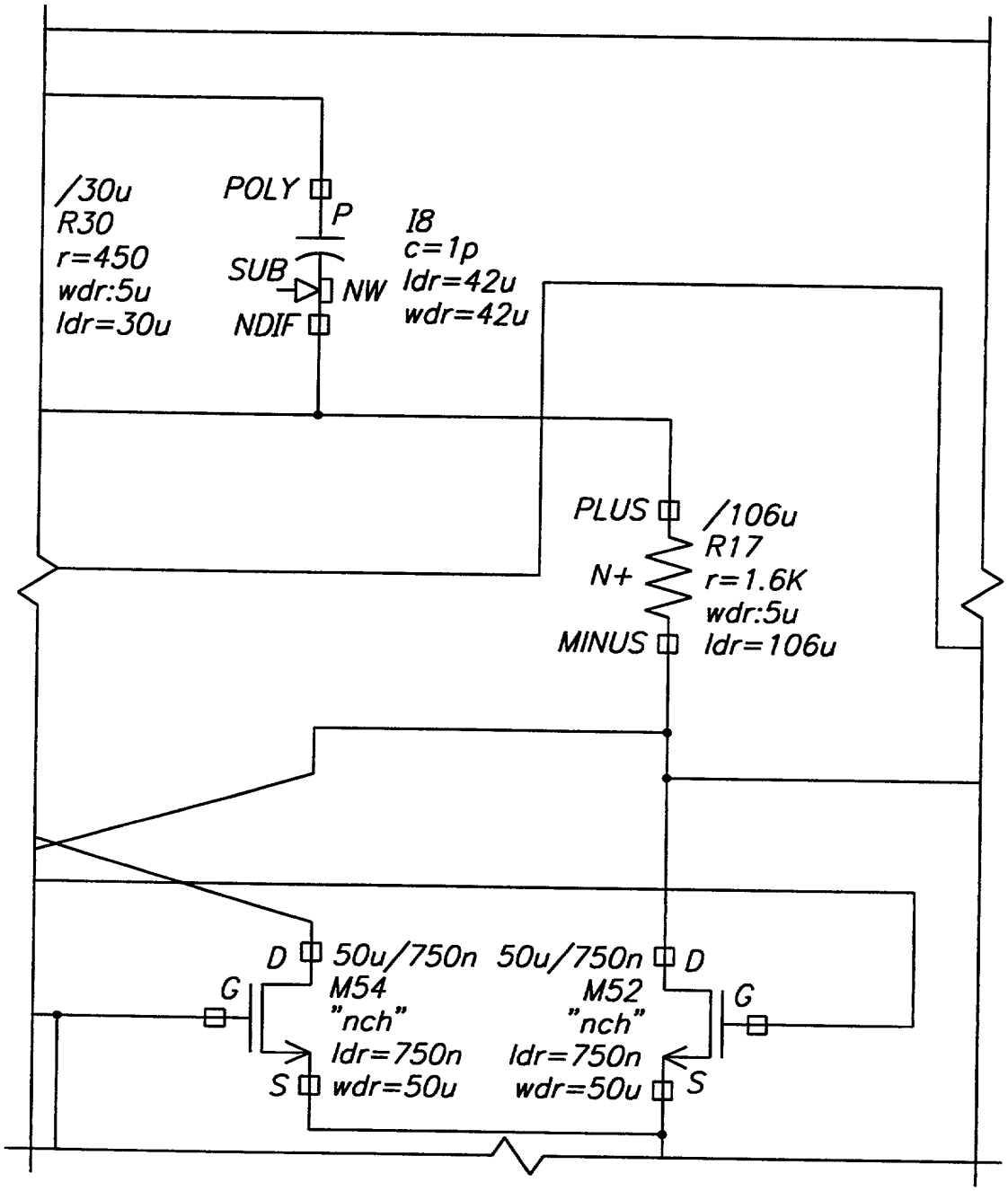


Fig 8.060502AC

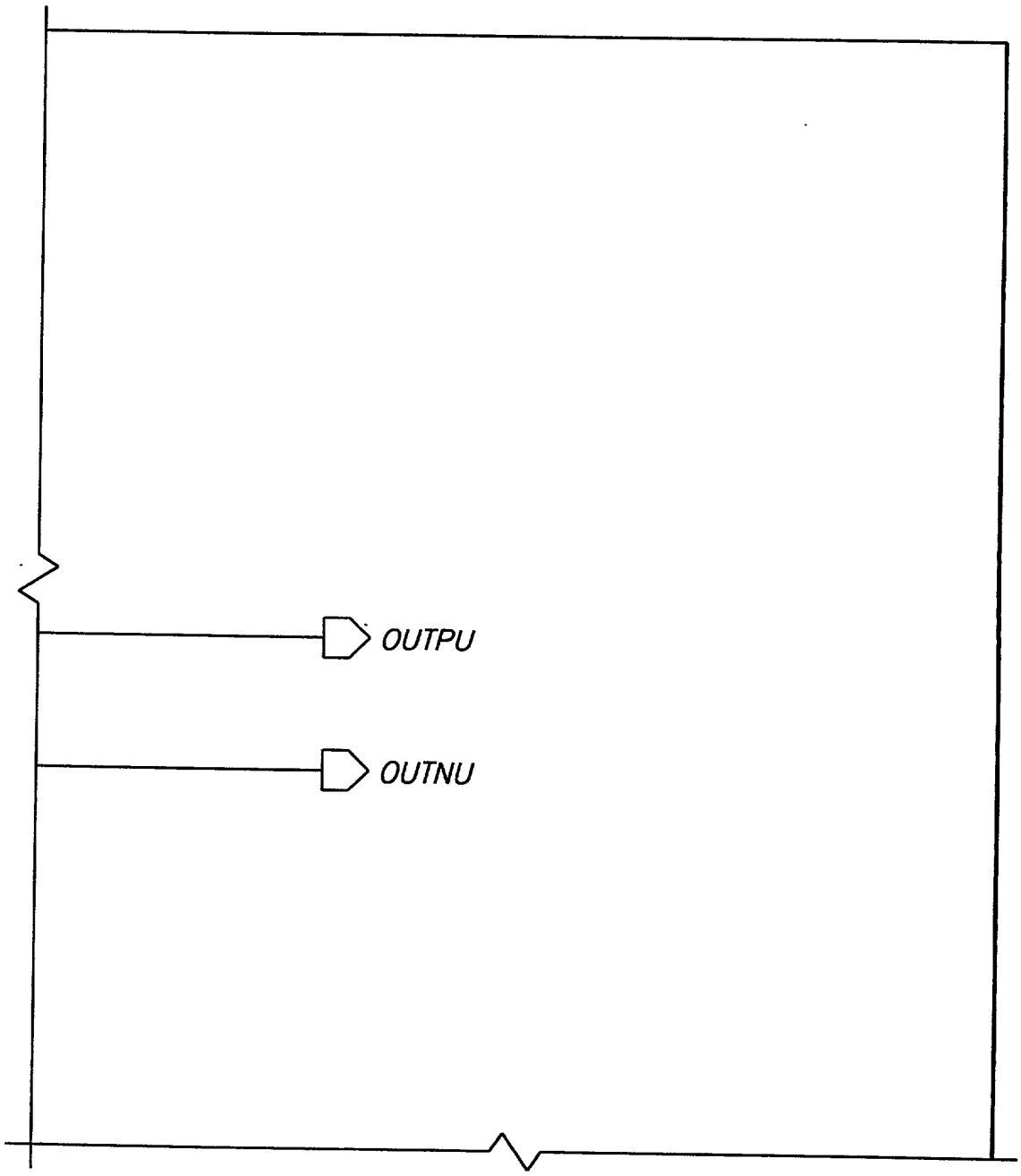


Fig 8.0605002AD

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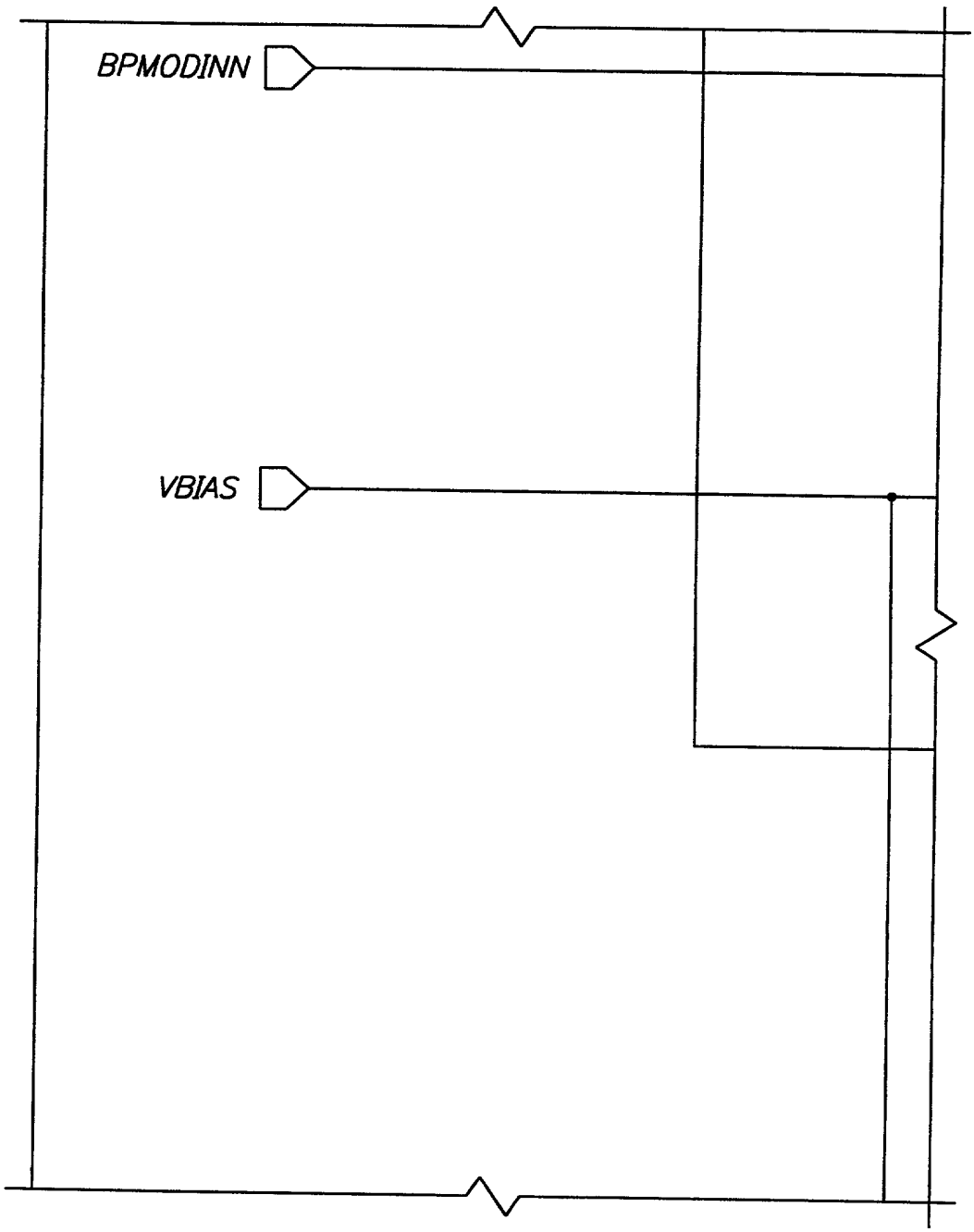


Fig 8.0605028A

US6225654

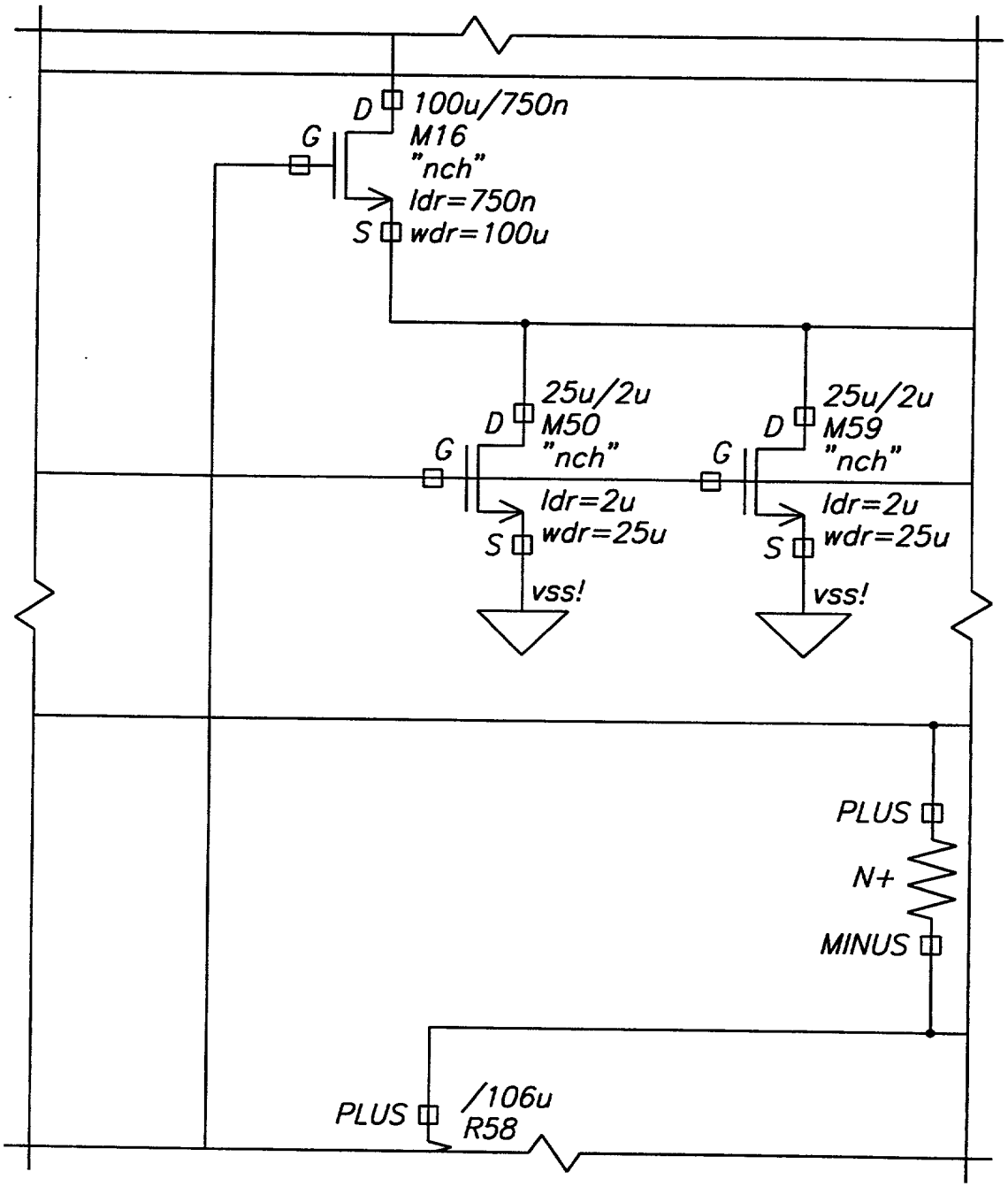


Fig 8.060502BB

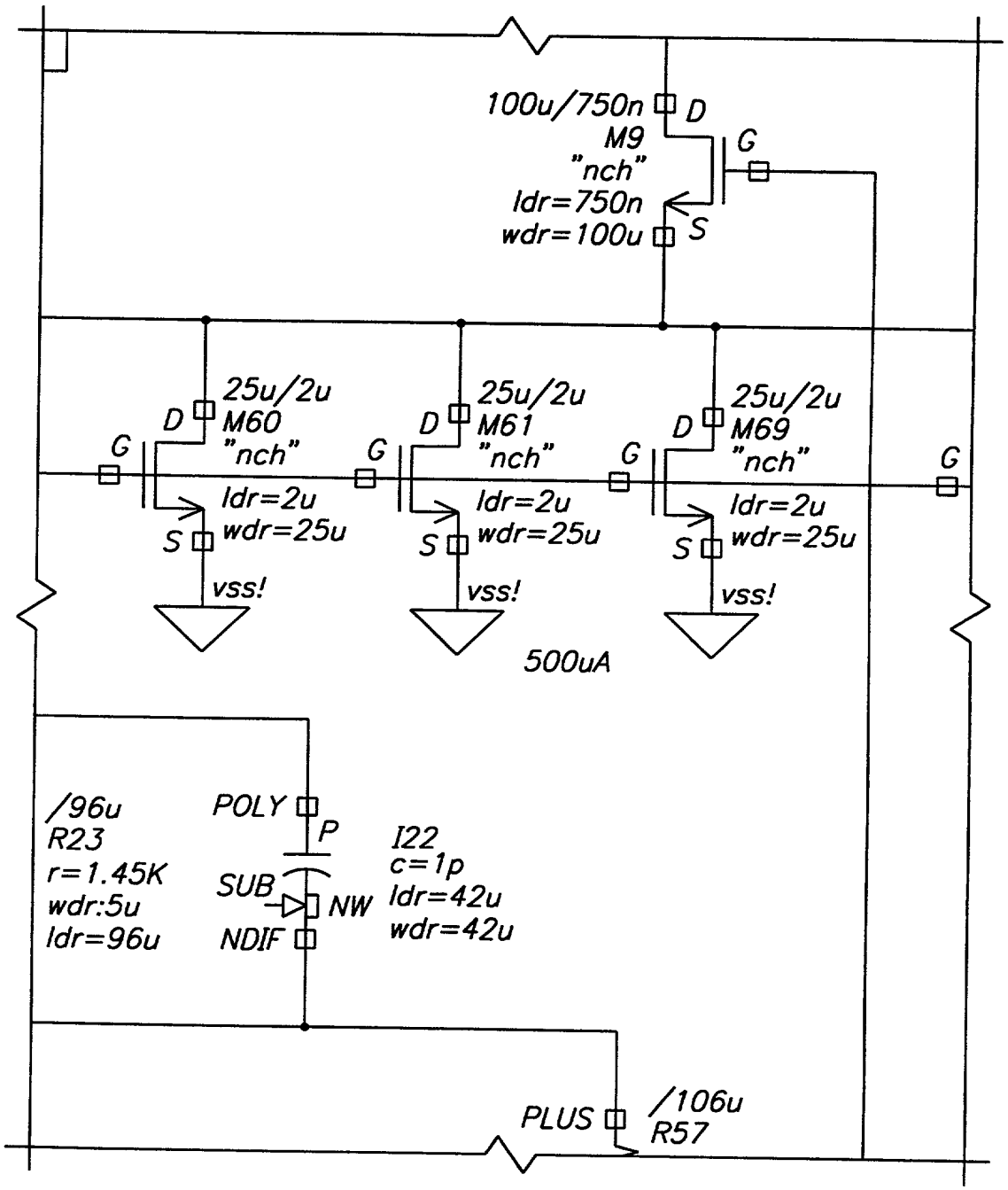


Fig 8.060502BC

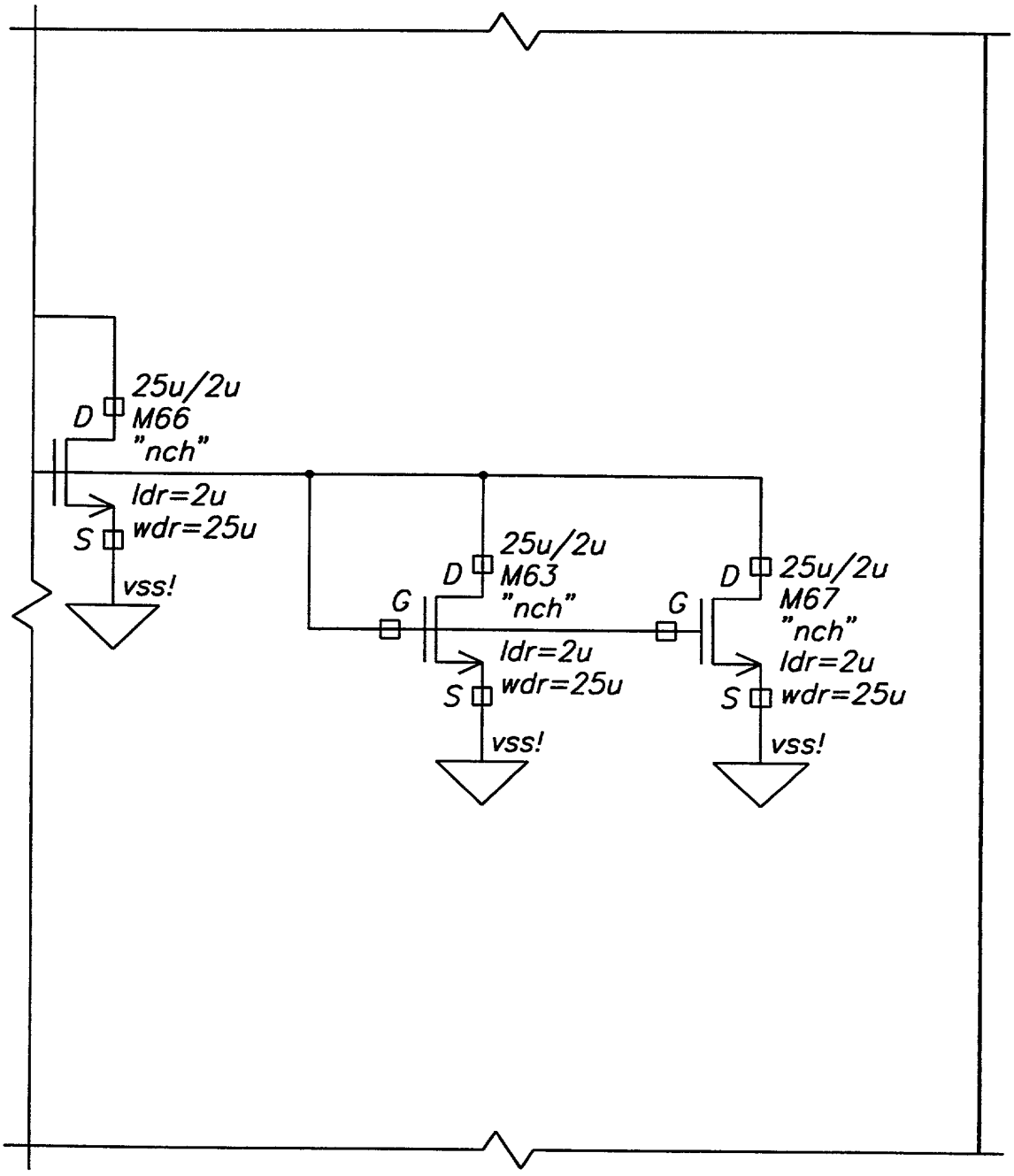


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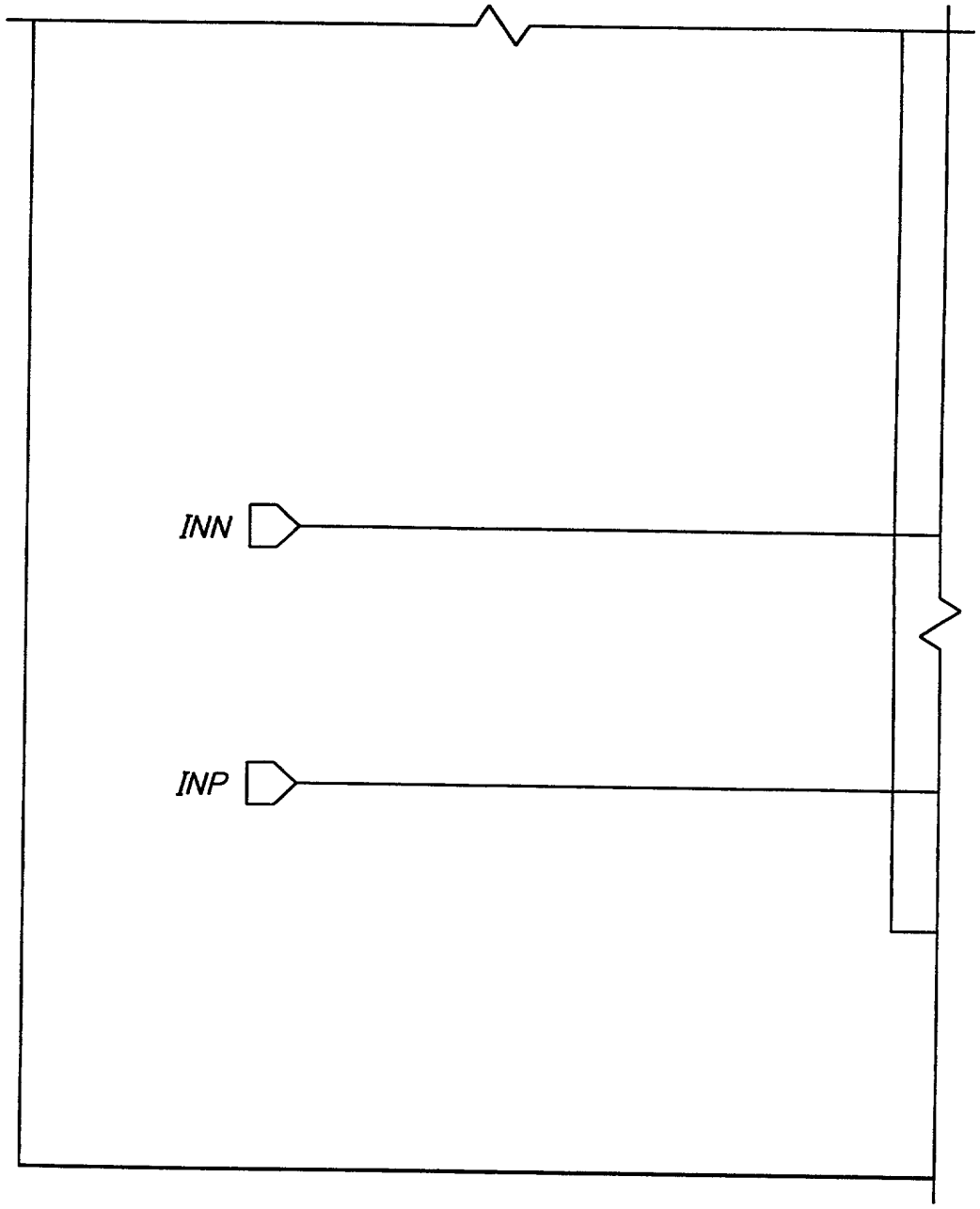


Fig 8.060502CA

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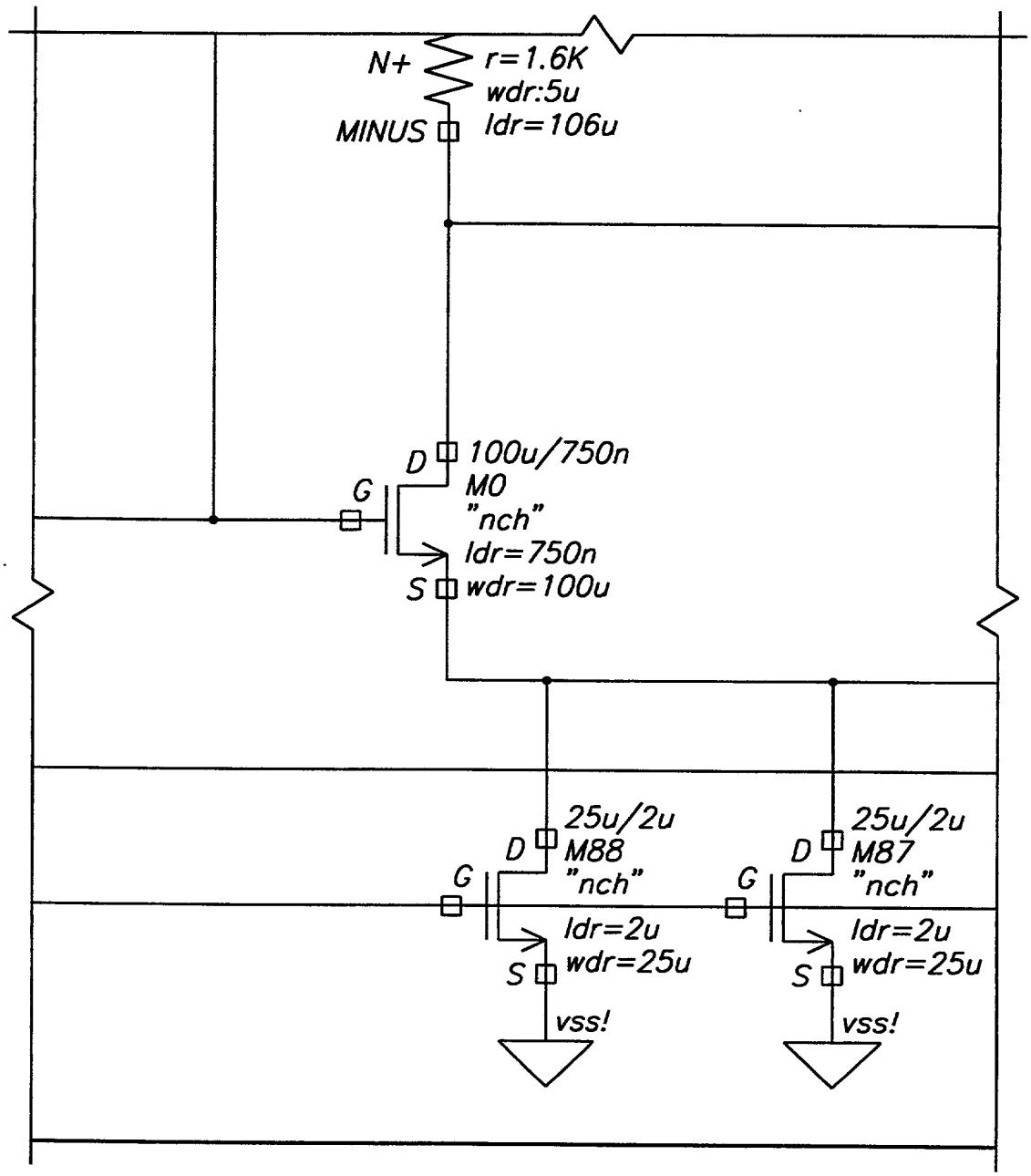


Fig 8.060502CB

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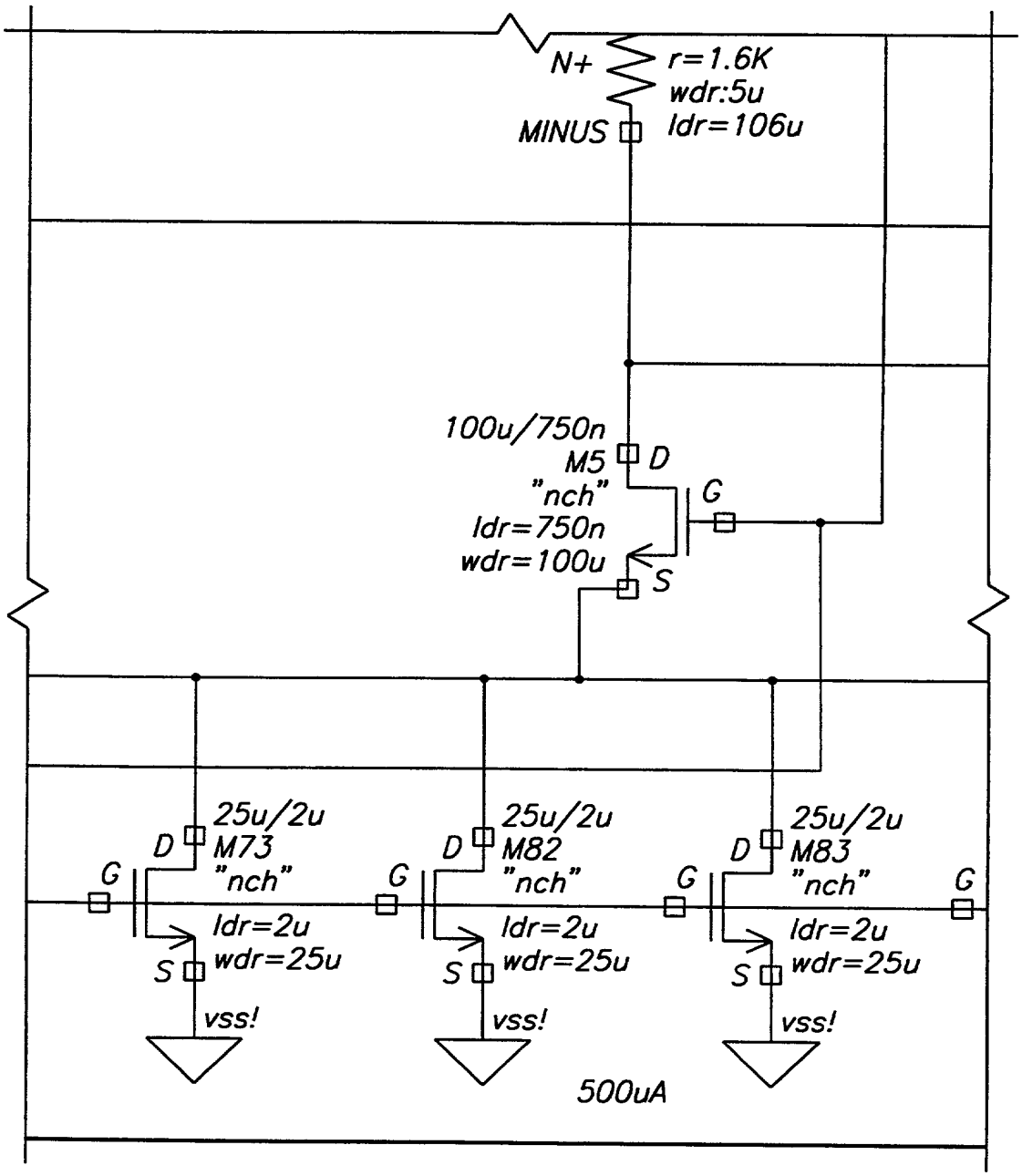


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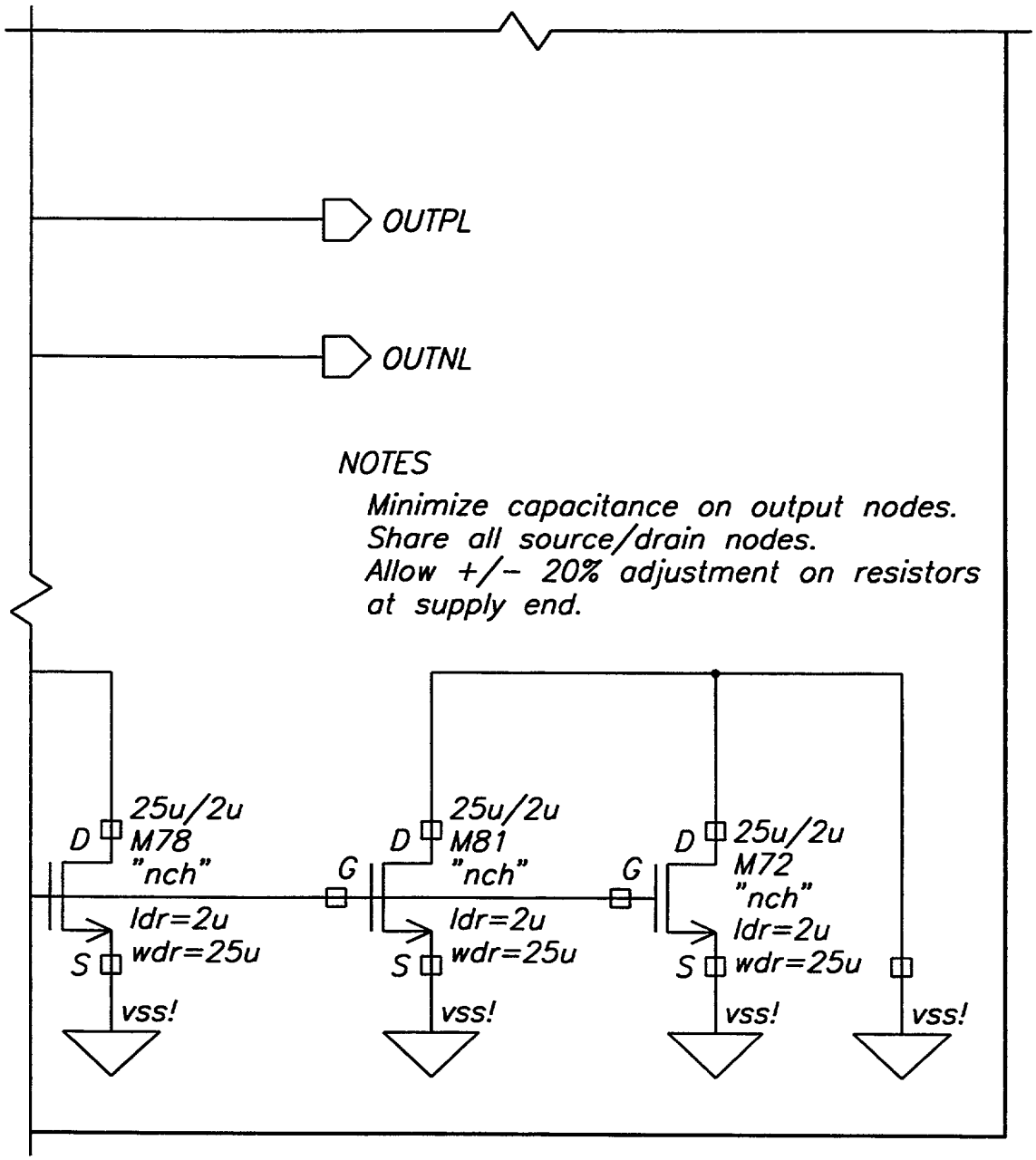


Fig 8.060502CD

US5382908 - 05 JAN 95

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8.060503CA	8.060503CB	8.060503CC	8.060503CD	8.060503CE
8.060503DA	8.060503DB	8.060503DC	8.060503DD	8.060503DE
8.060503EA	8.060503EB	8.060503EC	8.060503ED	8.060503EE
8.060503FA	8.060503FB	8.060503FC	8.060503FD	8.060503FE

Fig 8.060503

0572205 - 0572206

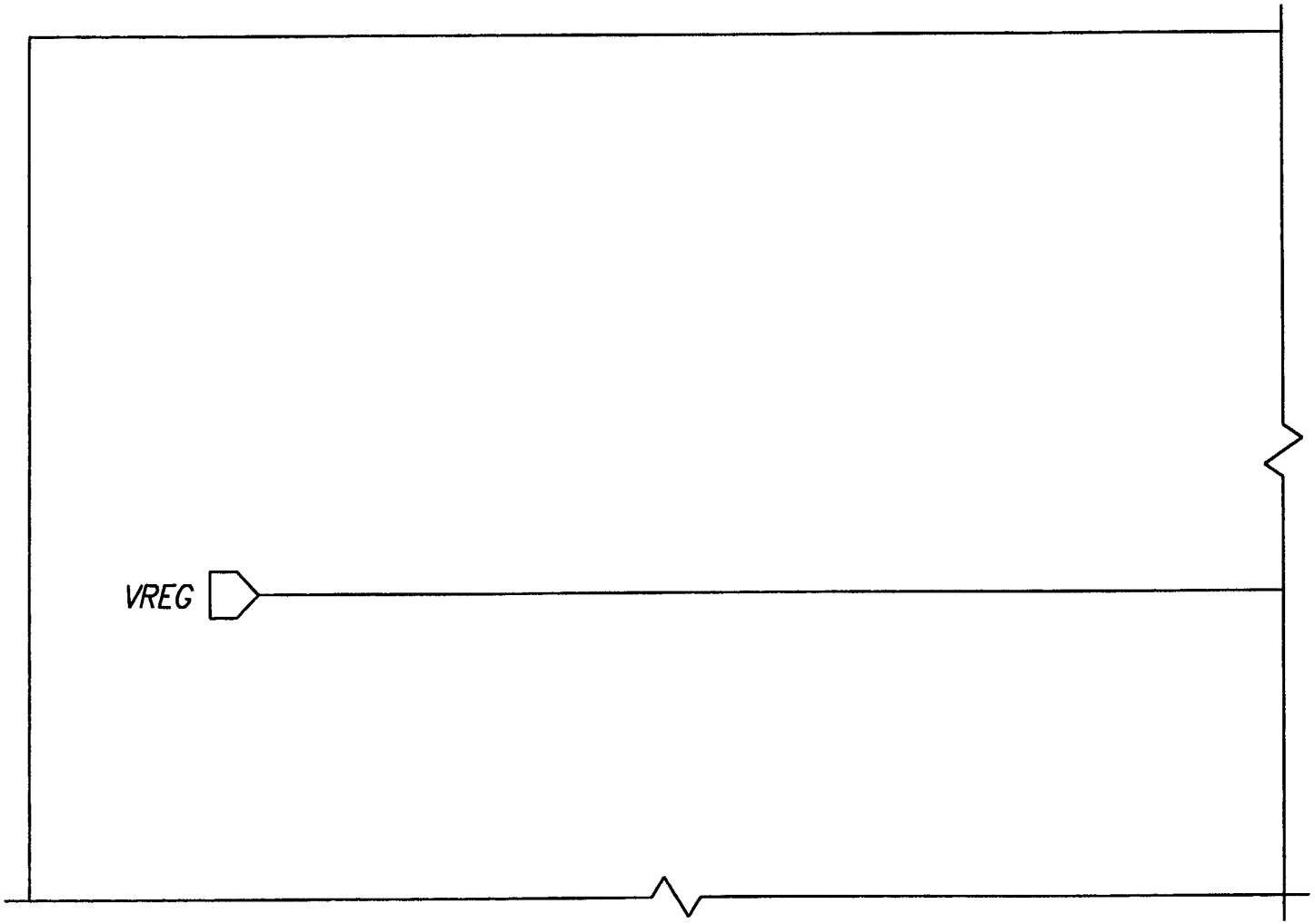
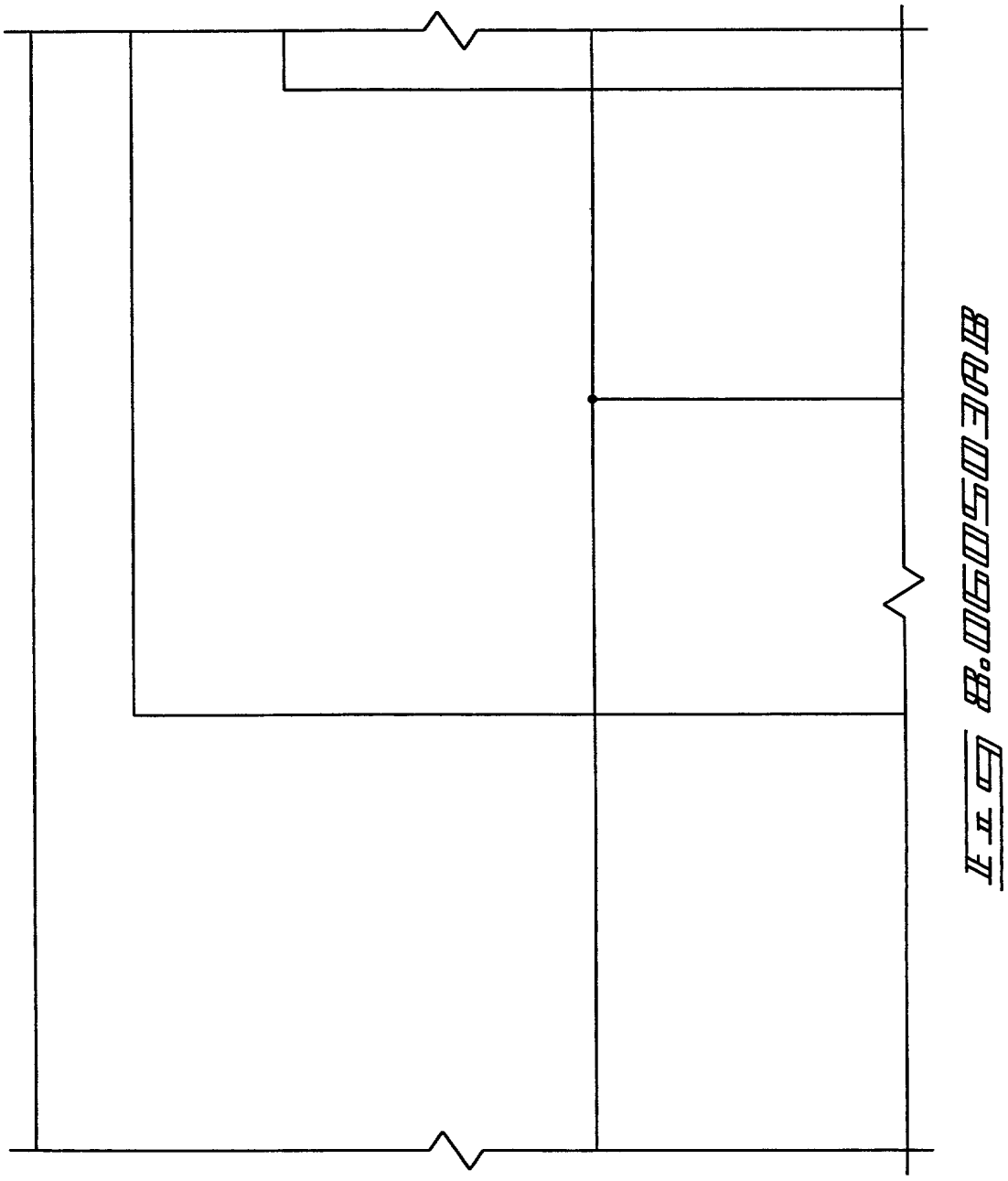


Fig 8.0605031AA

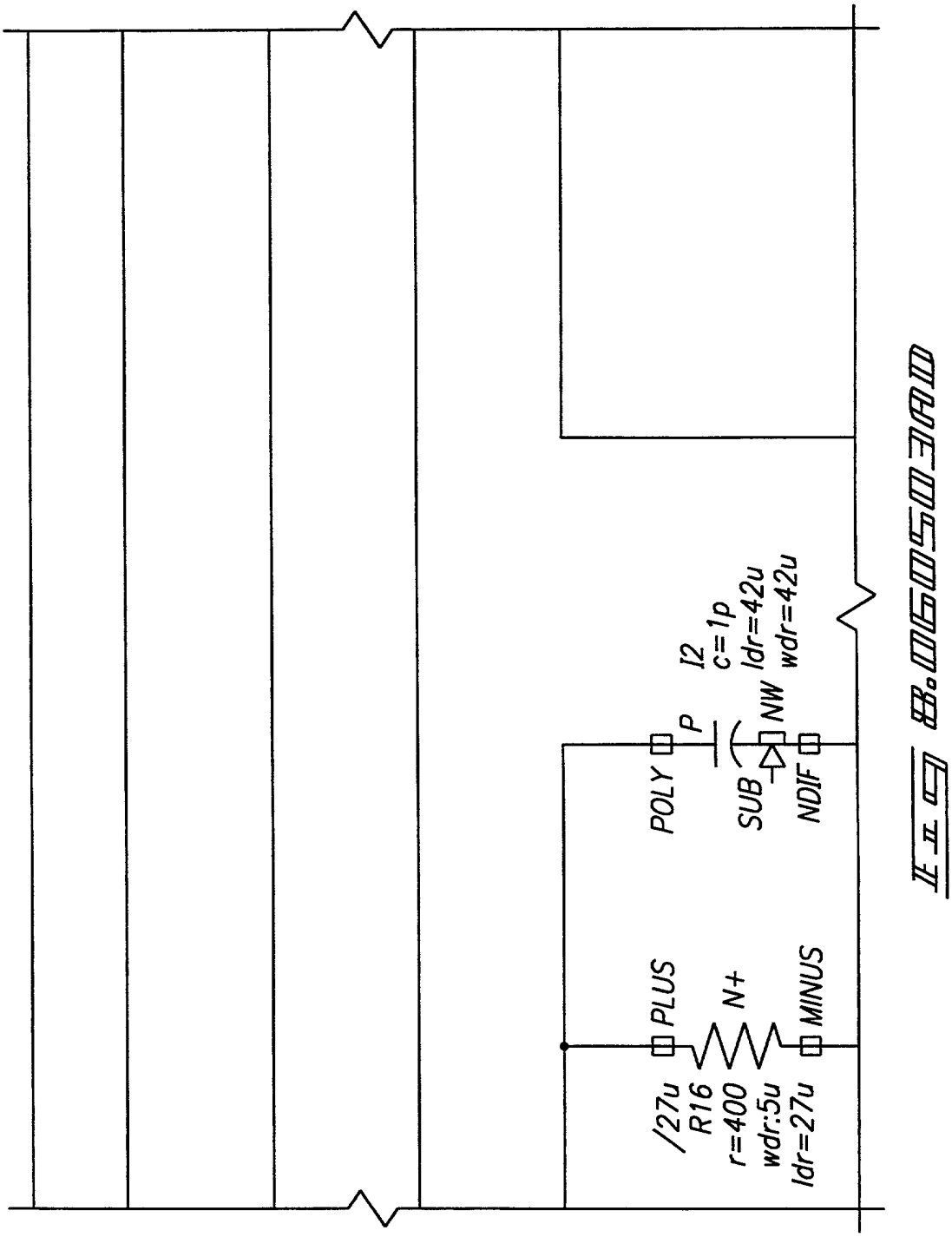
1996/3273

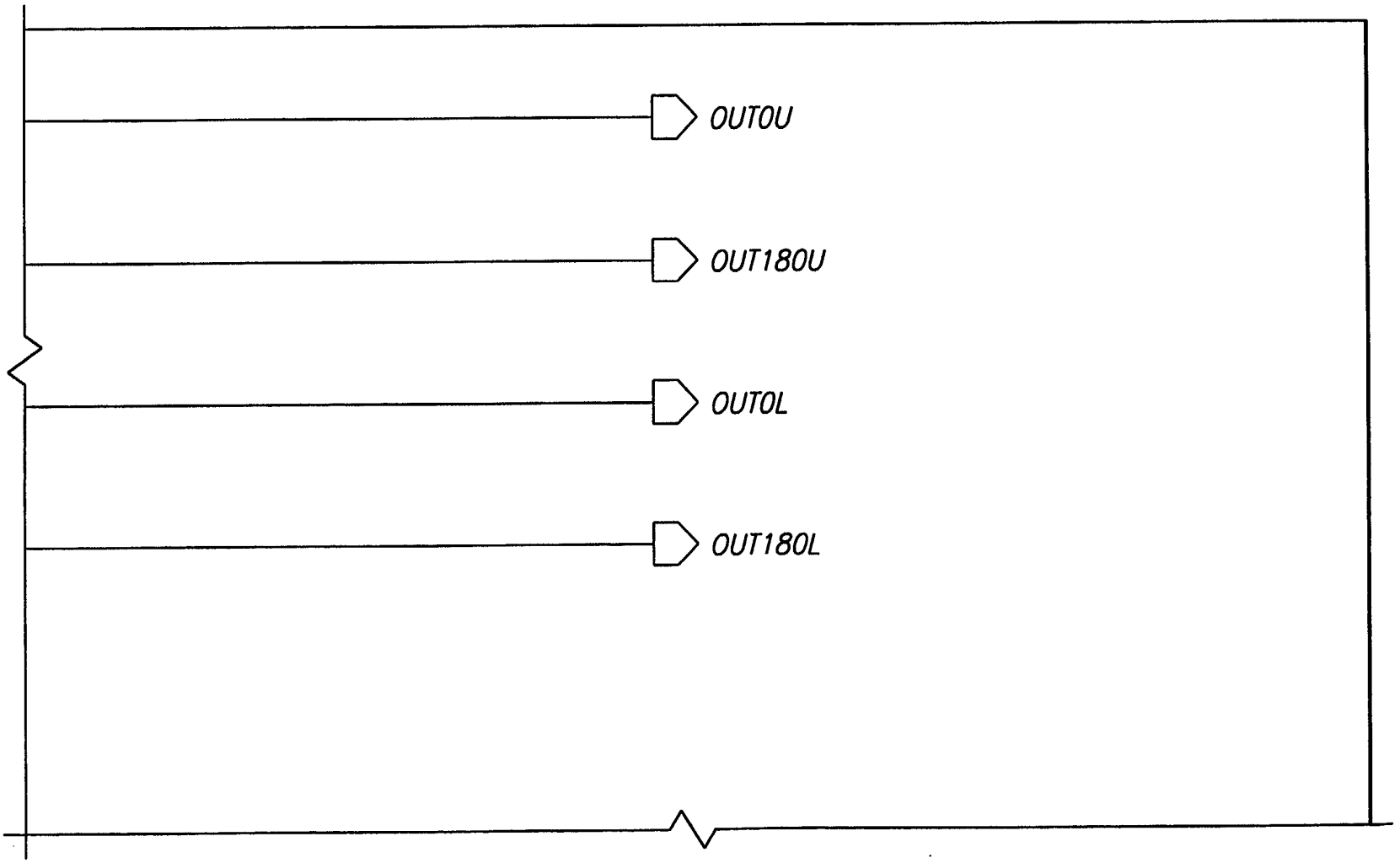


Document No: 5662965

1997/3273

Document No: 05442


MOSMOSAM II
/27u
R16
r=400
wdr:5u
ldr=27u
PLUS
N+
MINUS
POLY
P
I2
c=1p
ldr=42u
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SUB
NW
NDIF



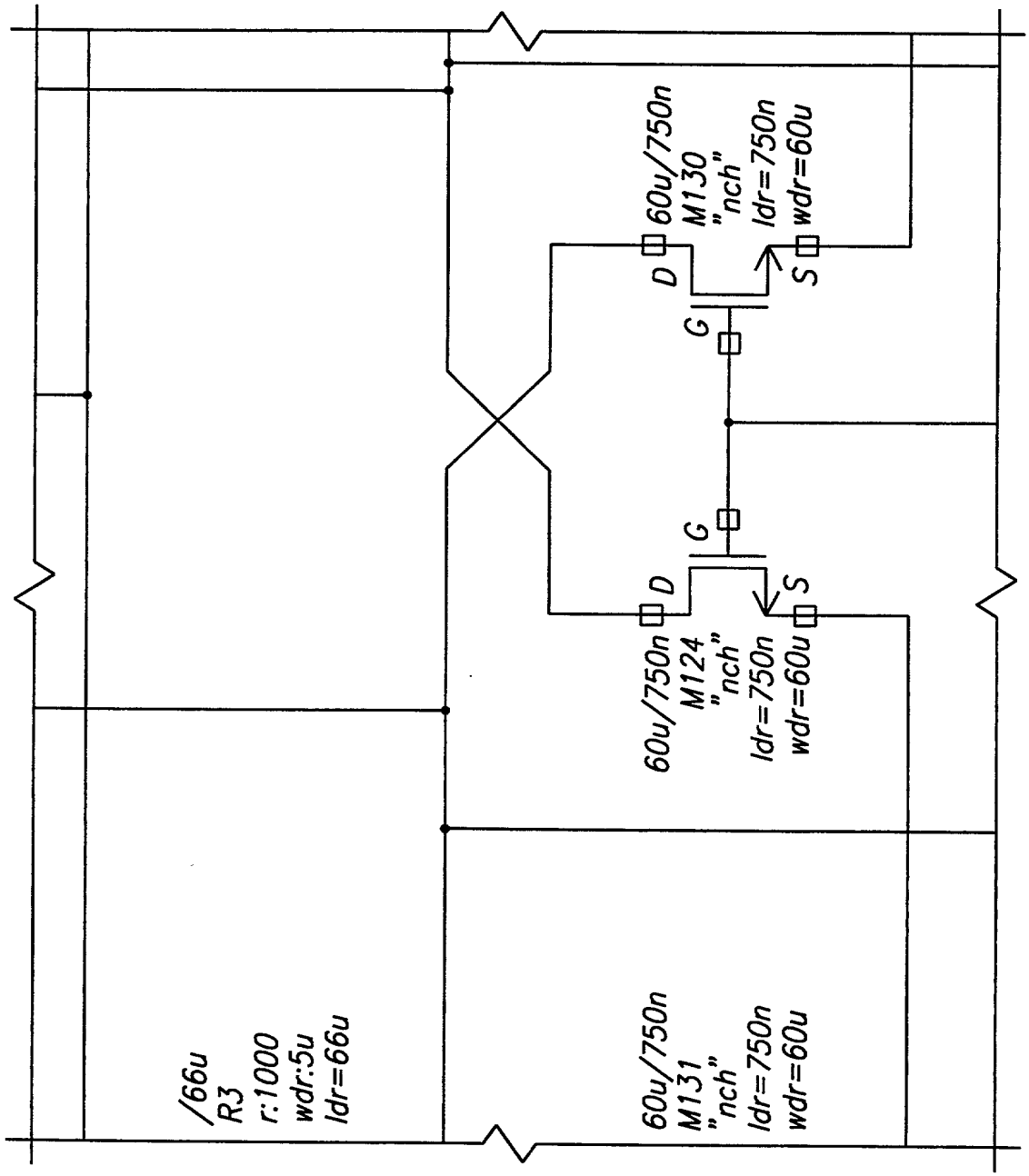
1999/3273

Fig 8.0605031AE

2000/3273

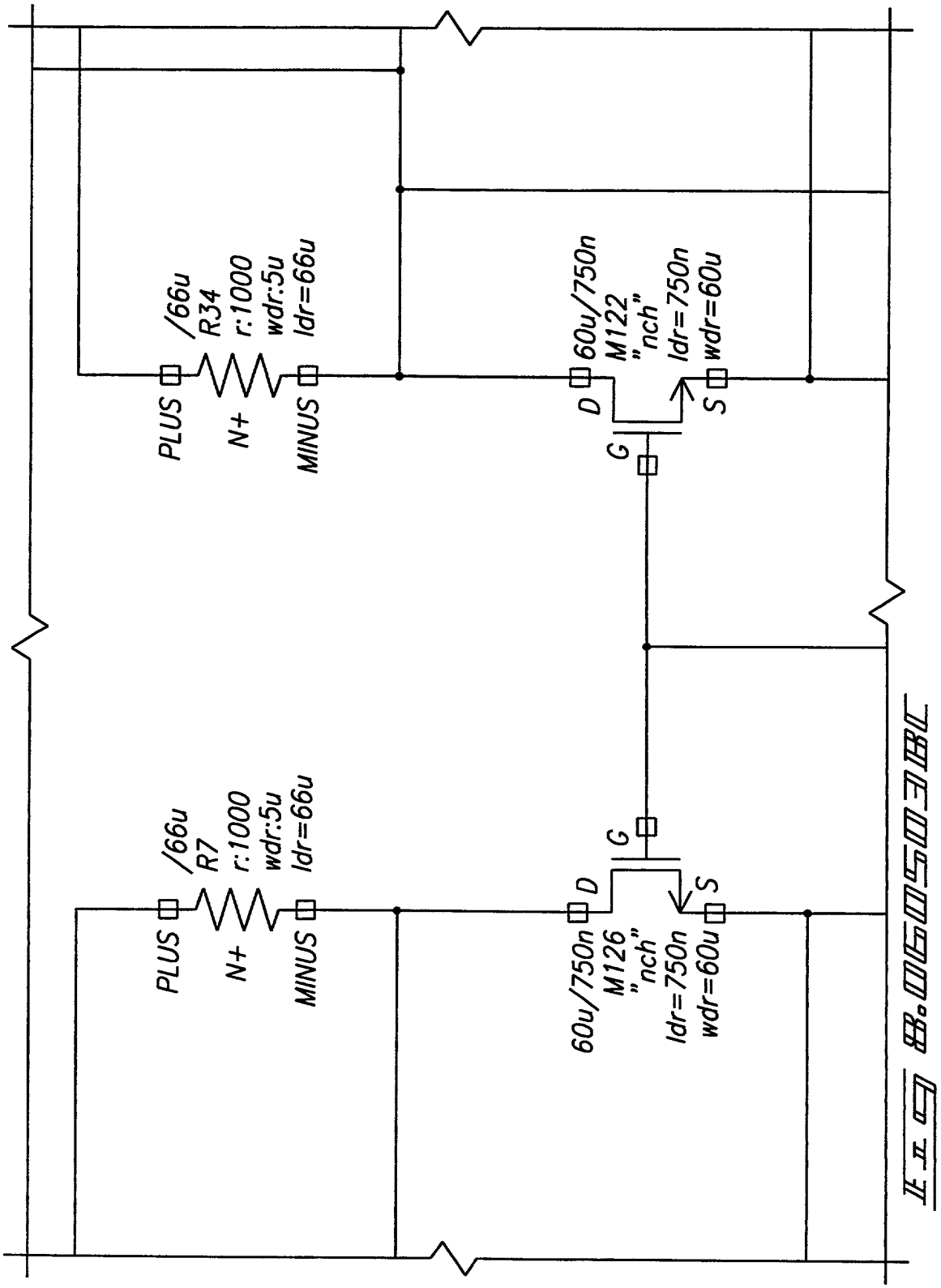
Фиг. 8

EP 1 094 095 A1

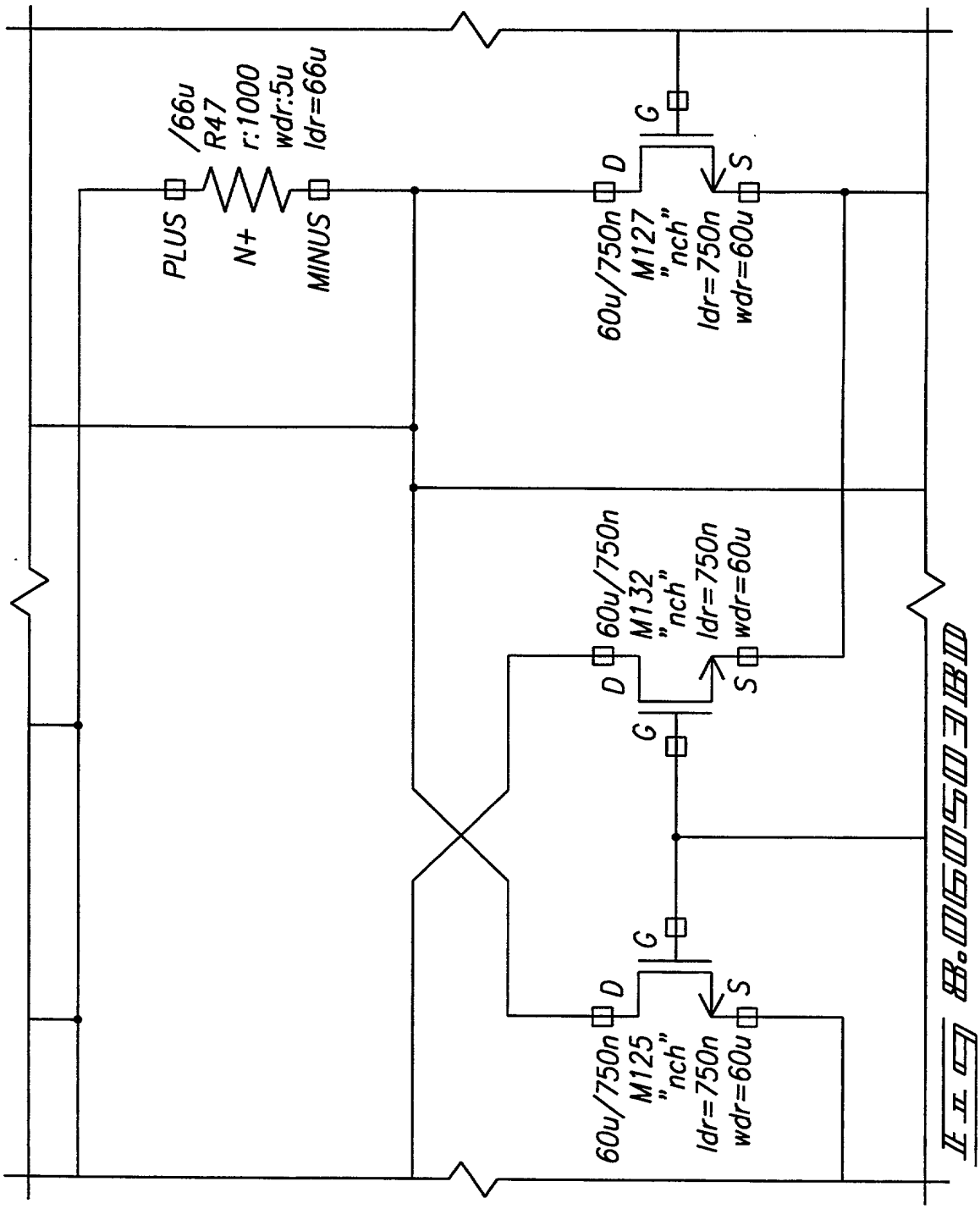


Фиг. 8

Подписано и скреплено



US005250848A



EP 0 955 723 A1

2004/3273

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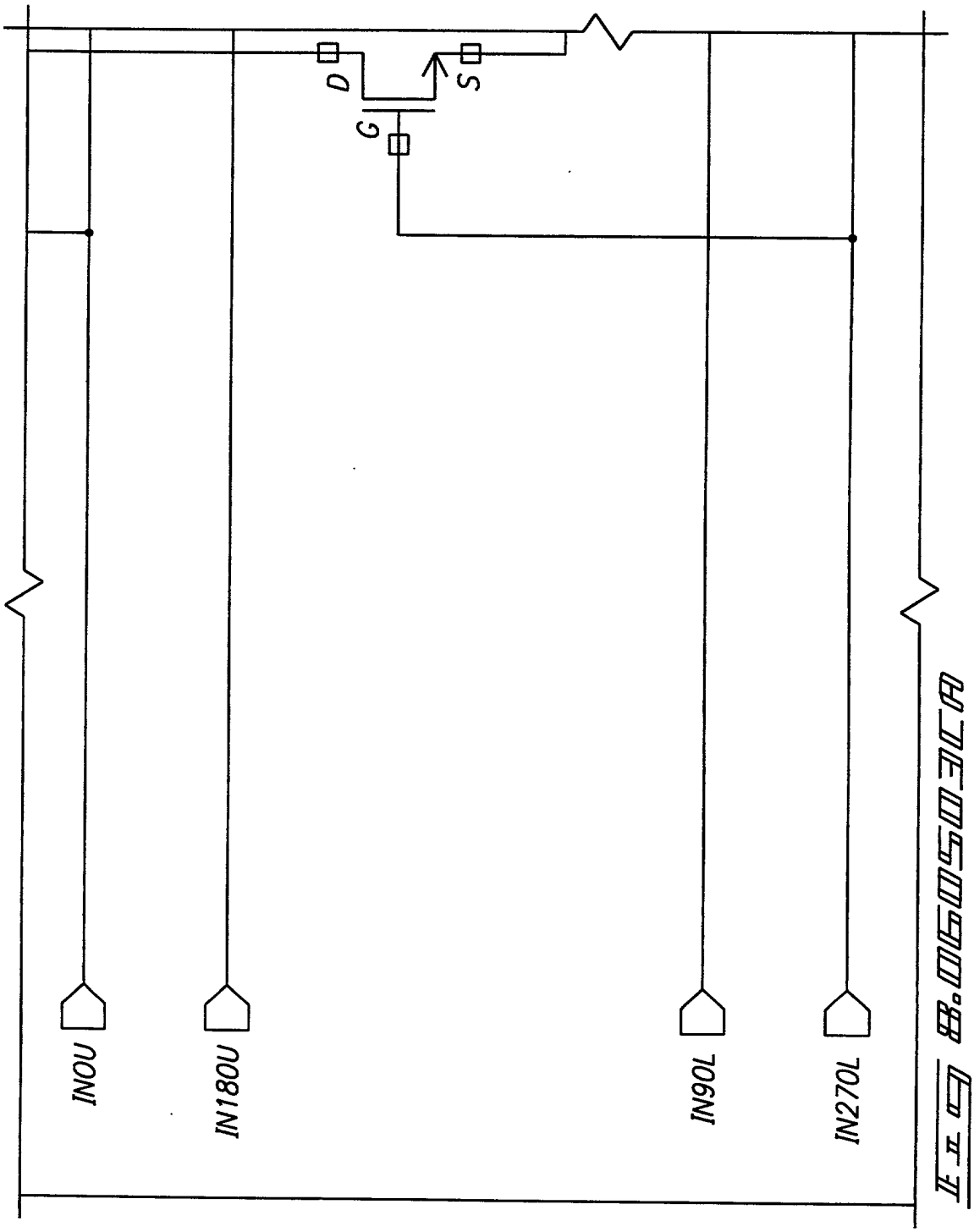


FIG 8 (Cont'd)

Document - 05/11/05

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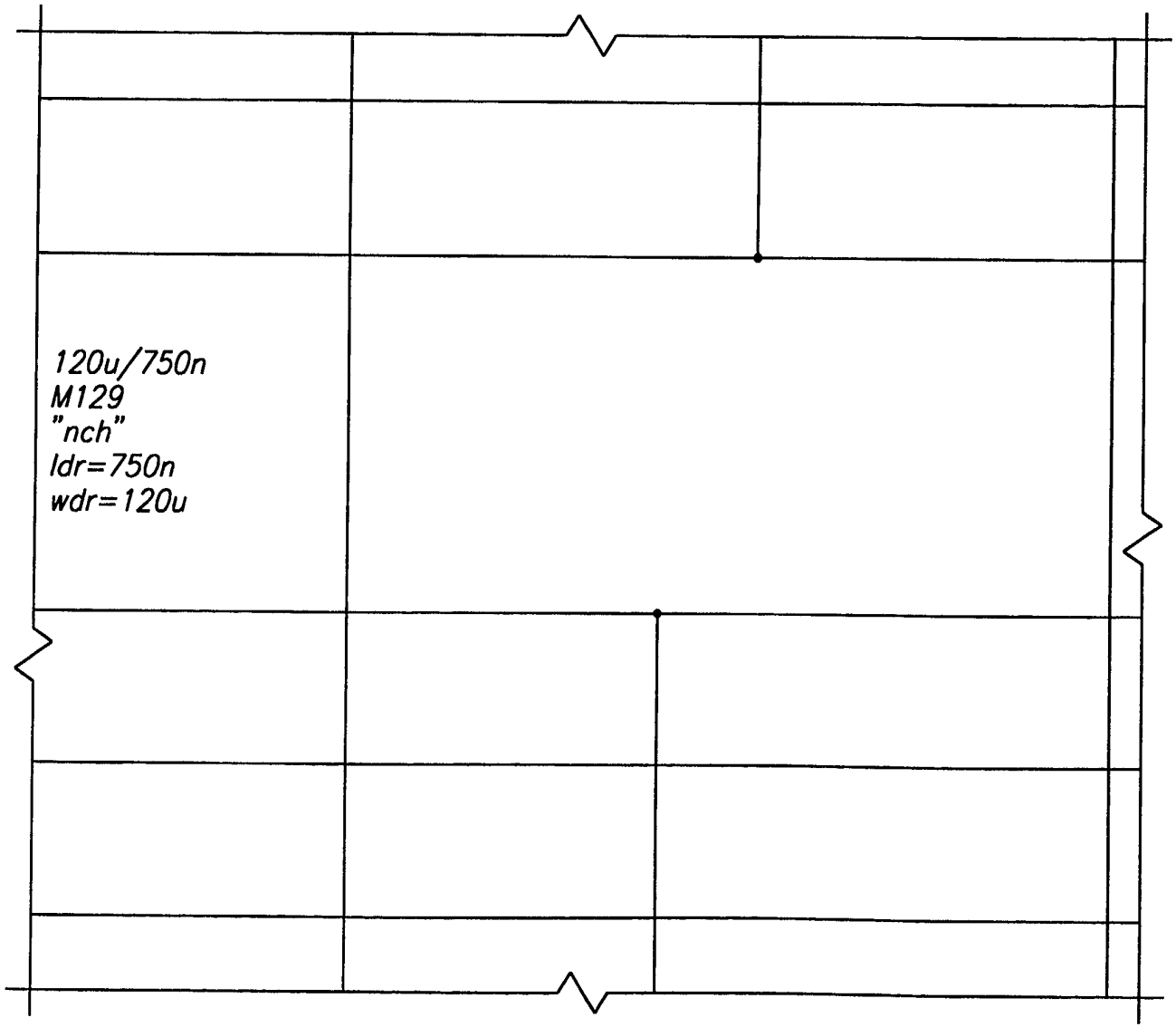


Fig 8.0605036B

2006/3273

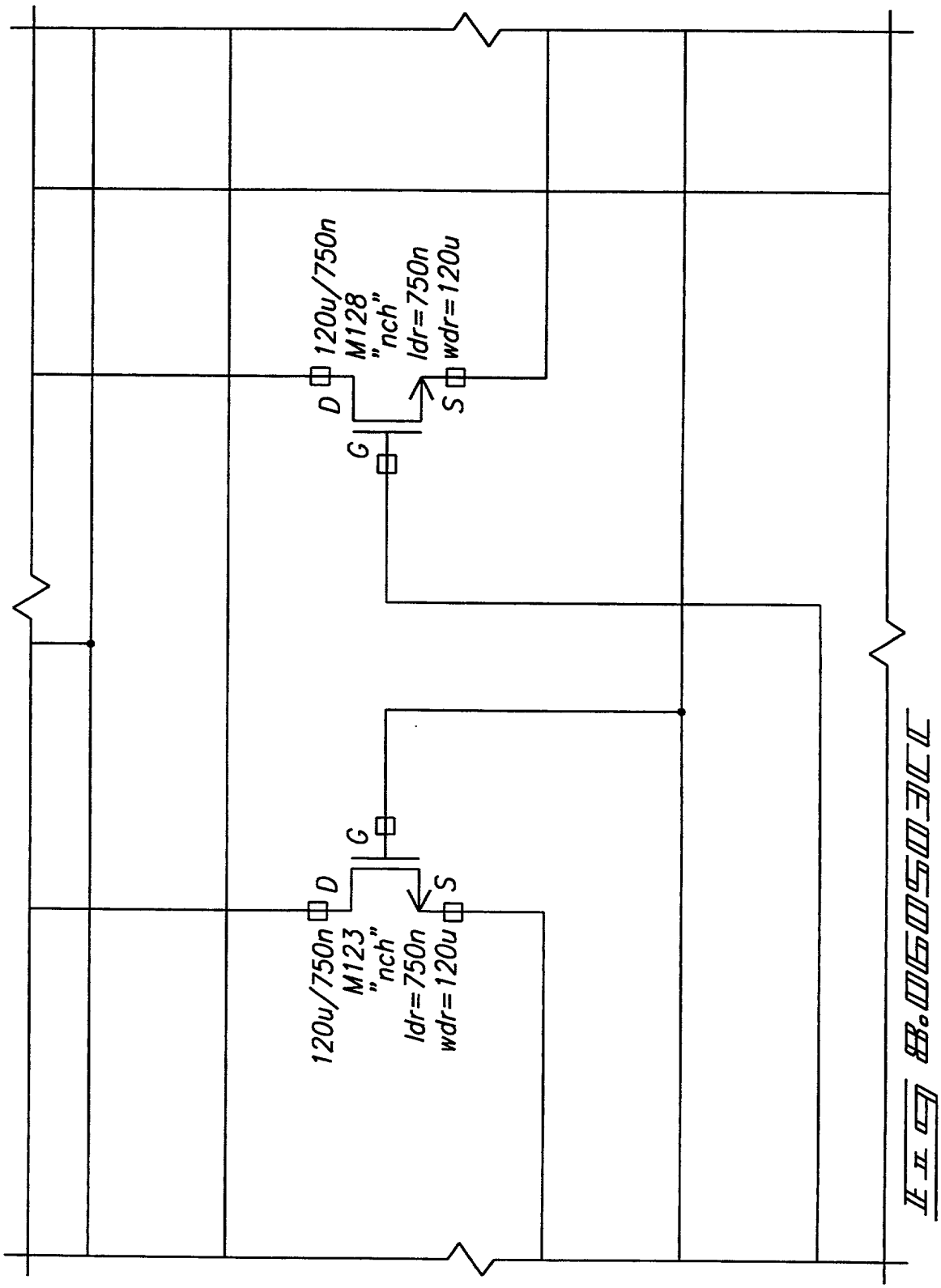


FIG 5

US-2007-0063750-A1

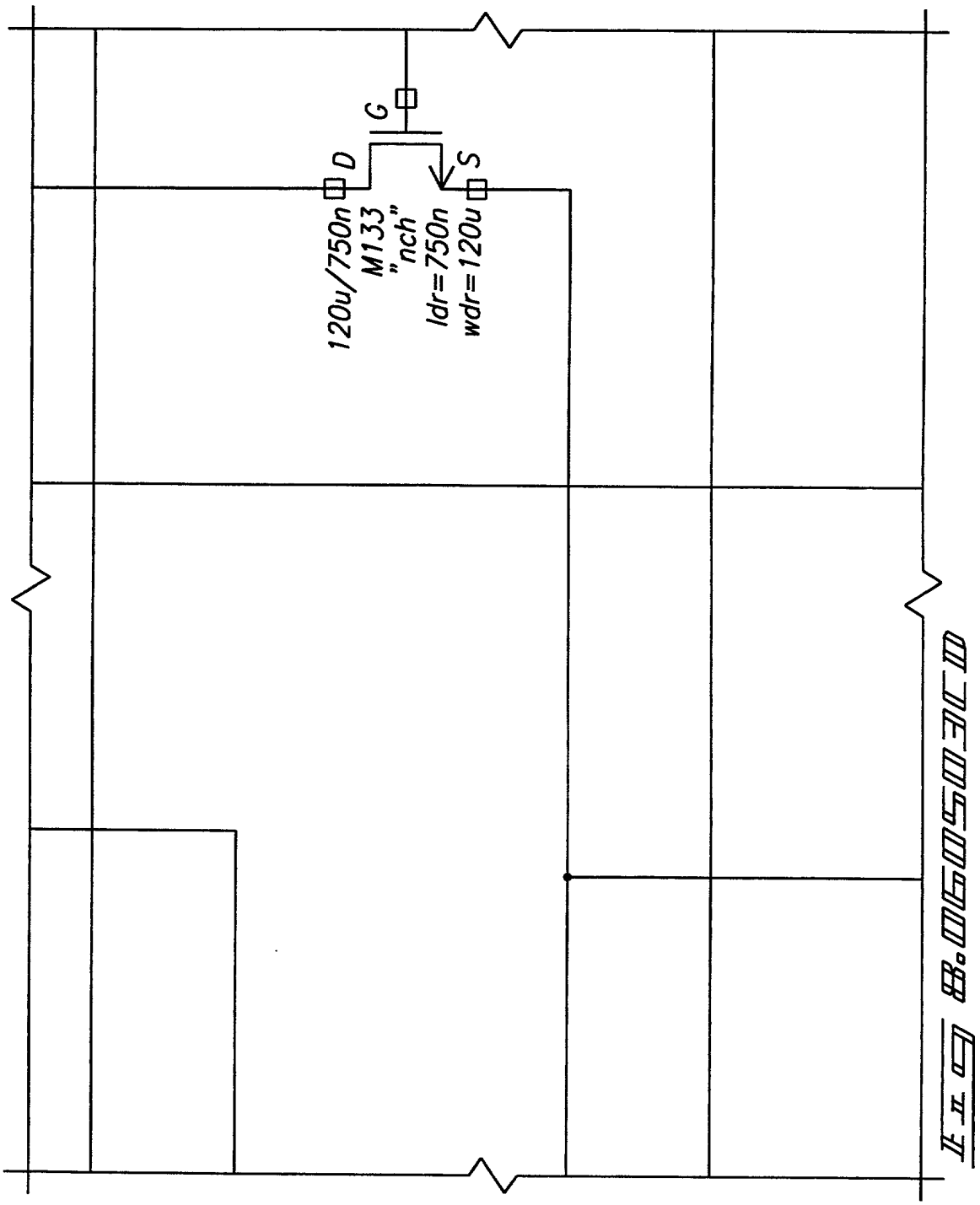
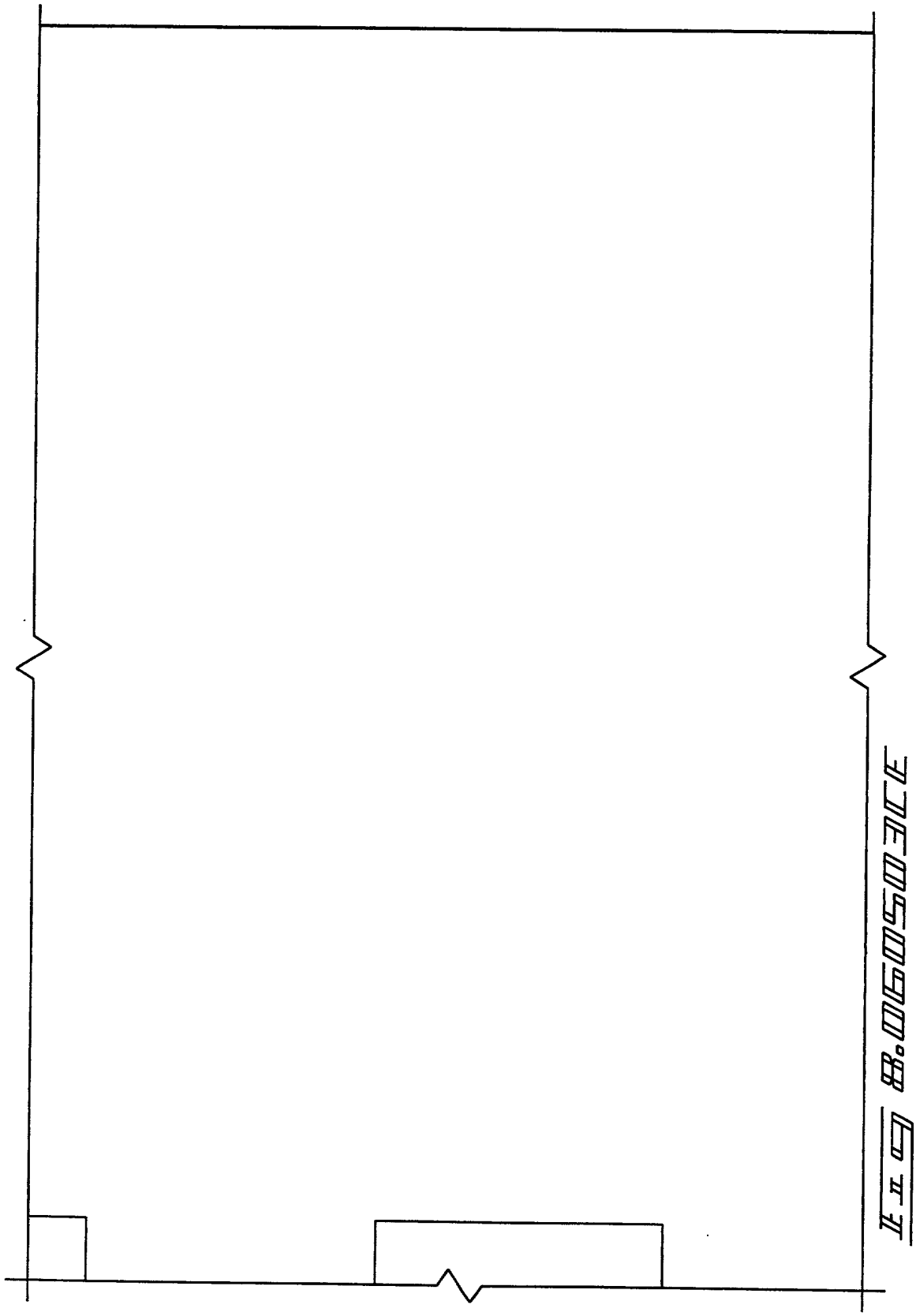


FIG 8a

US 7,514,334 B2

2009/3273



D96220 - 05/11/09

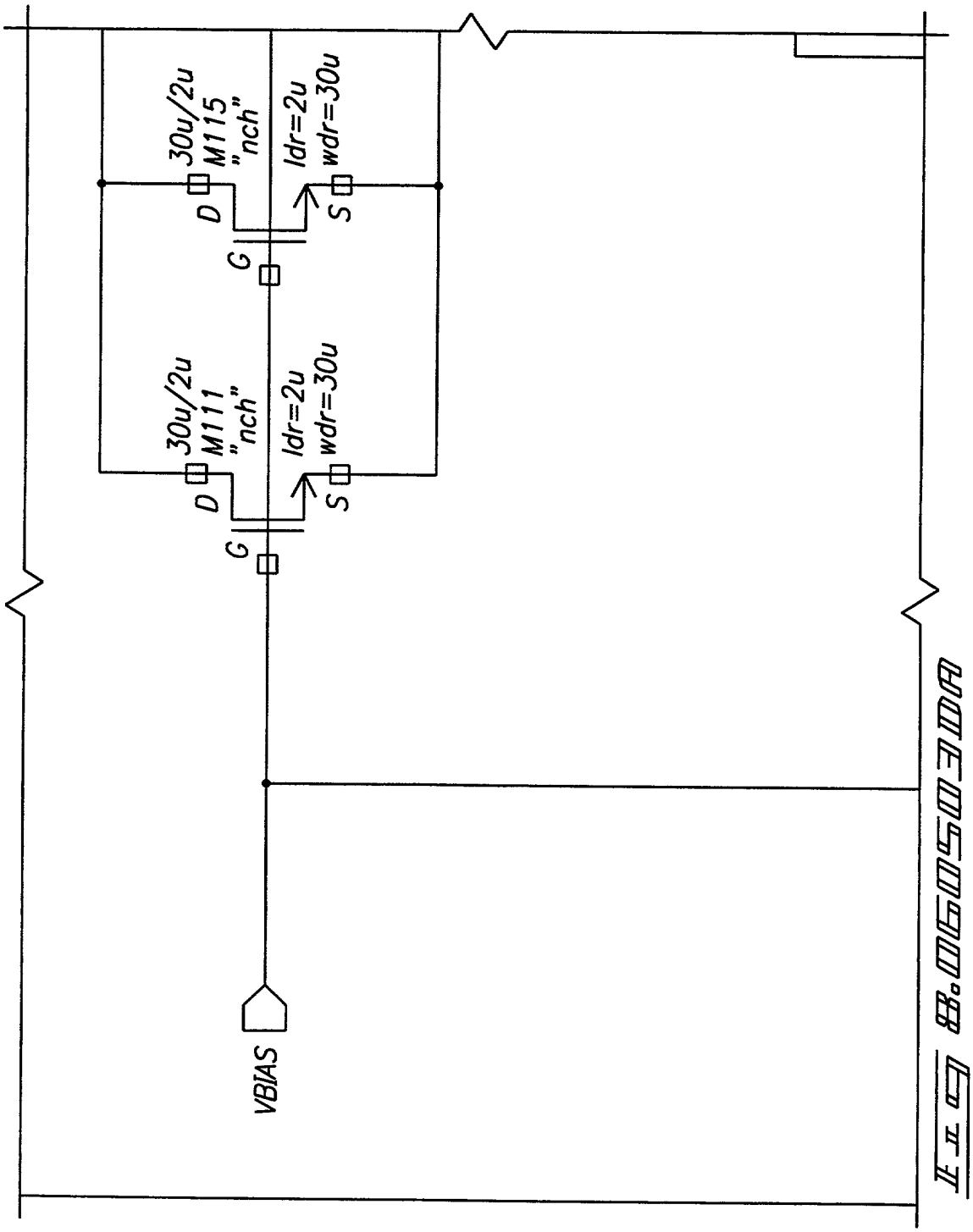


FIG 8

Electronic Acknowledgment Receipt - 05/15/2010

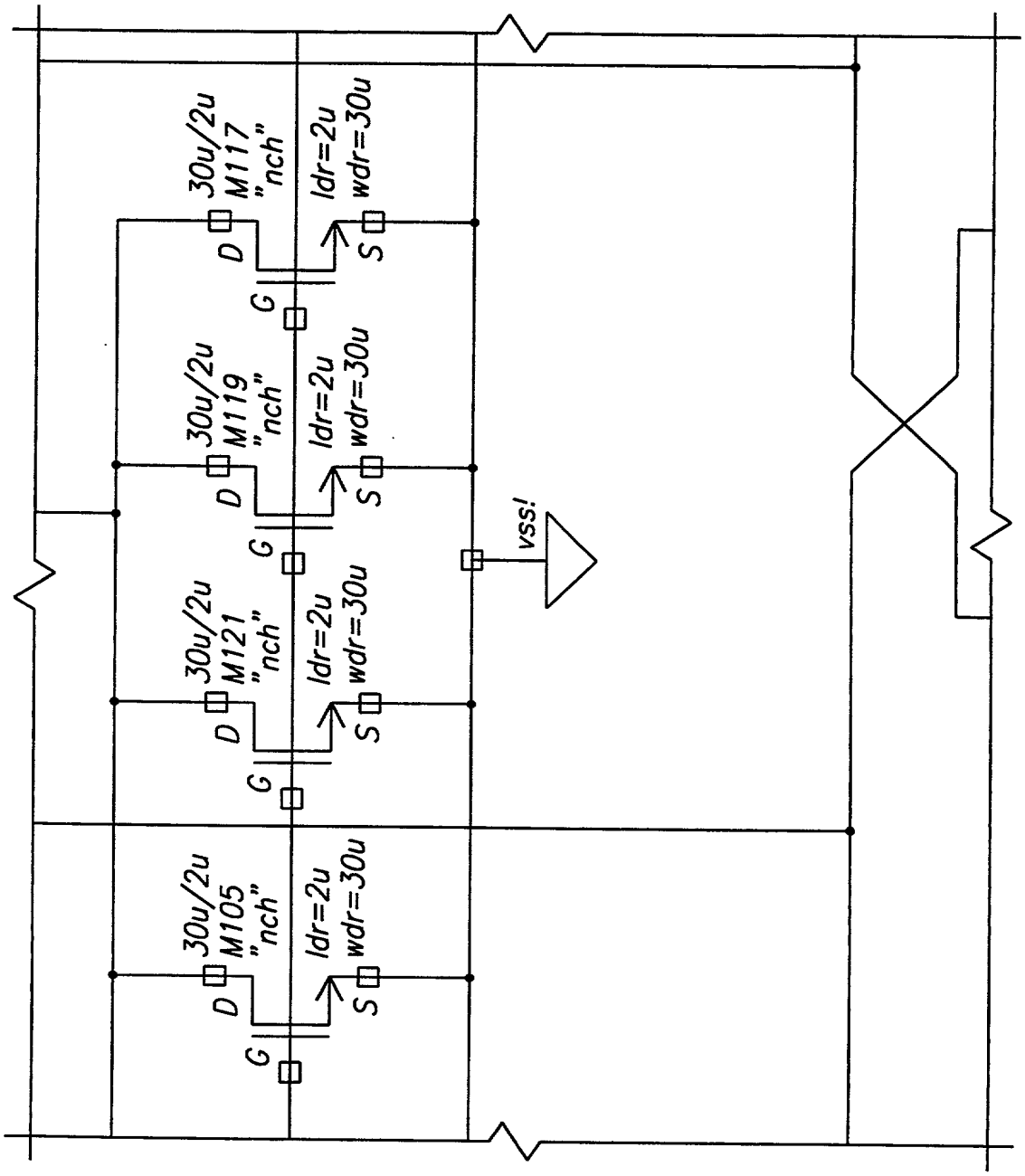
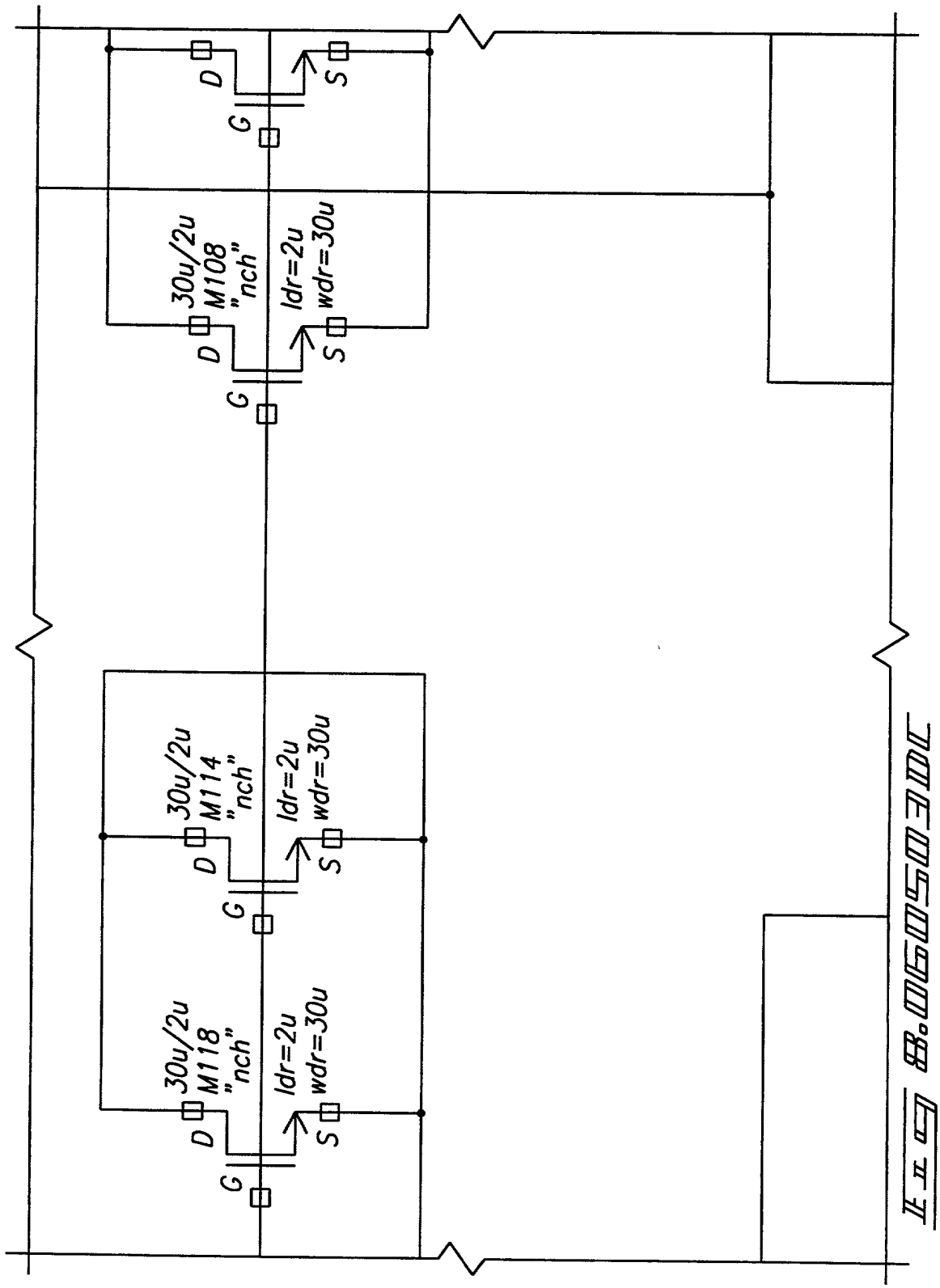
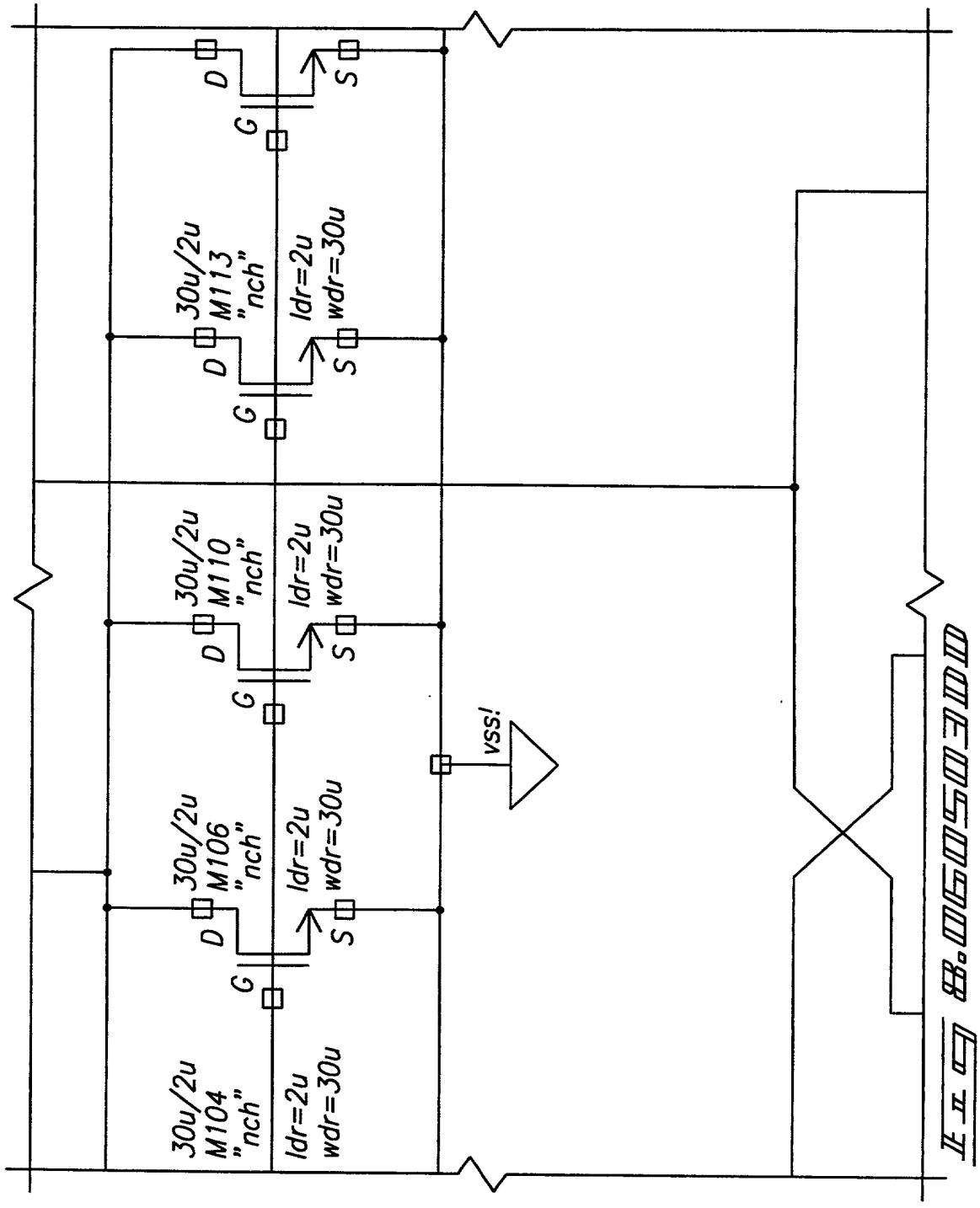

30u/2u
M117
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ldr=2u
wdr=30u
D
G
S
30u/2u
M119
"nch"
ldr=2u
wdr=30u
D
G
S
vss!
30u/2u
M121
"nch"
ldr=2u
wdr=30u
D
G
S
30u/2u
M105
"nch"
ldr=2u
wdr=30u
D
G
S

Fig 8.0509.08



Фиг. 8

EP 2 575 176 A1


30u/2u
M104
"nch"
ldr=2u
wdr=30u
30u/2u
M106
"nch"
ldr=2u
wdr=30u
30u/2u
M110
"nch"
ldr=2u
wdr=30u
30u/2u
M113
"nch"
ldr=2u
wdr=30u
D
G
S
vss!
FIG 5

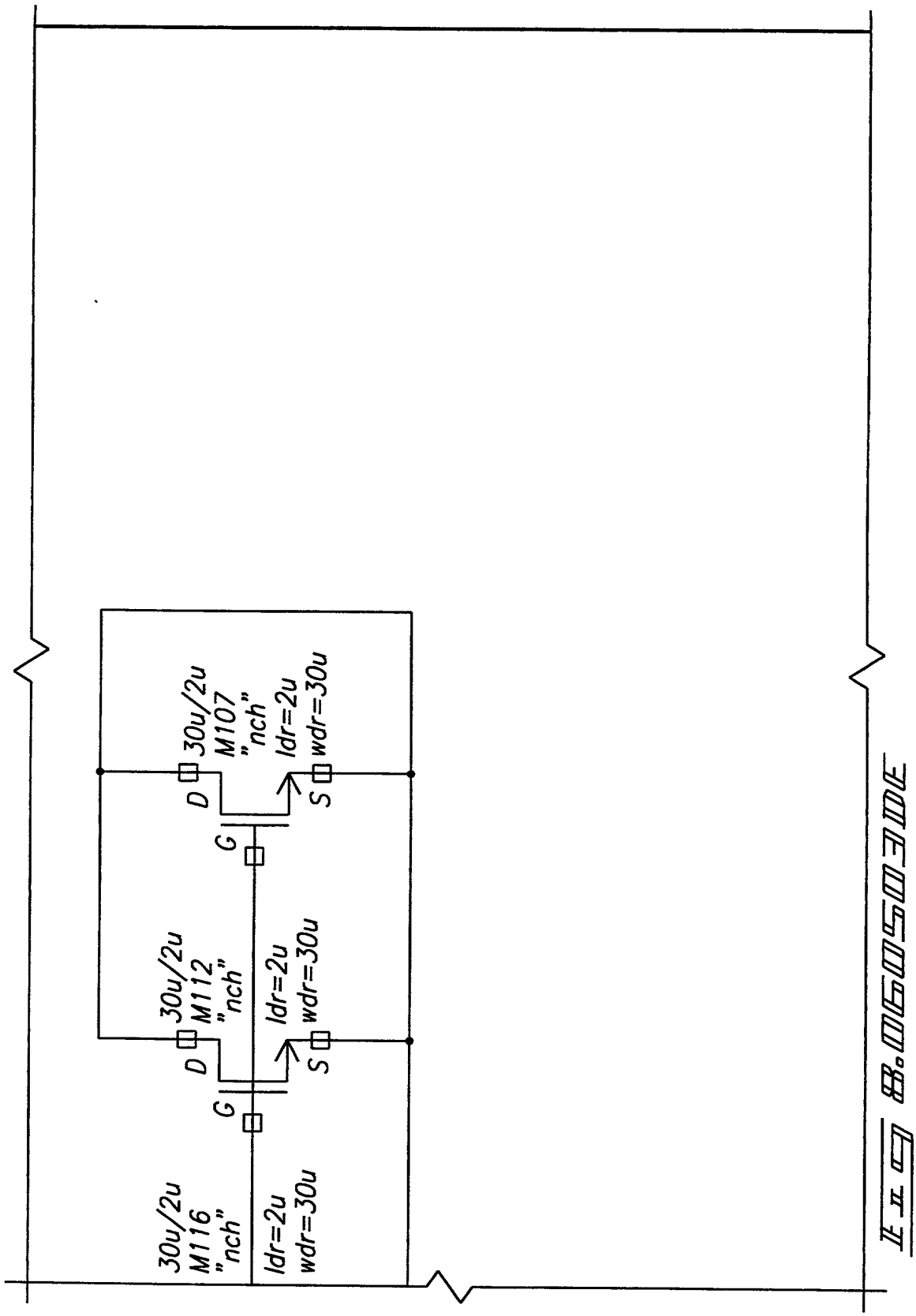
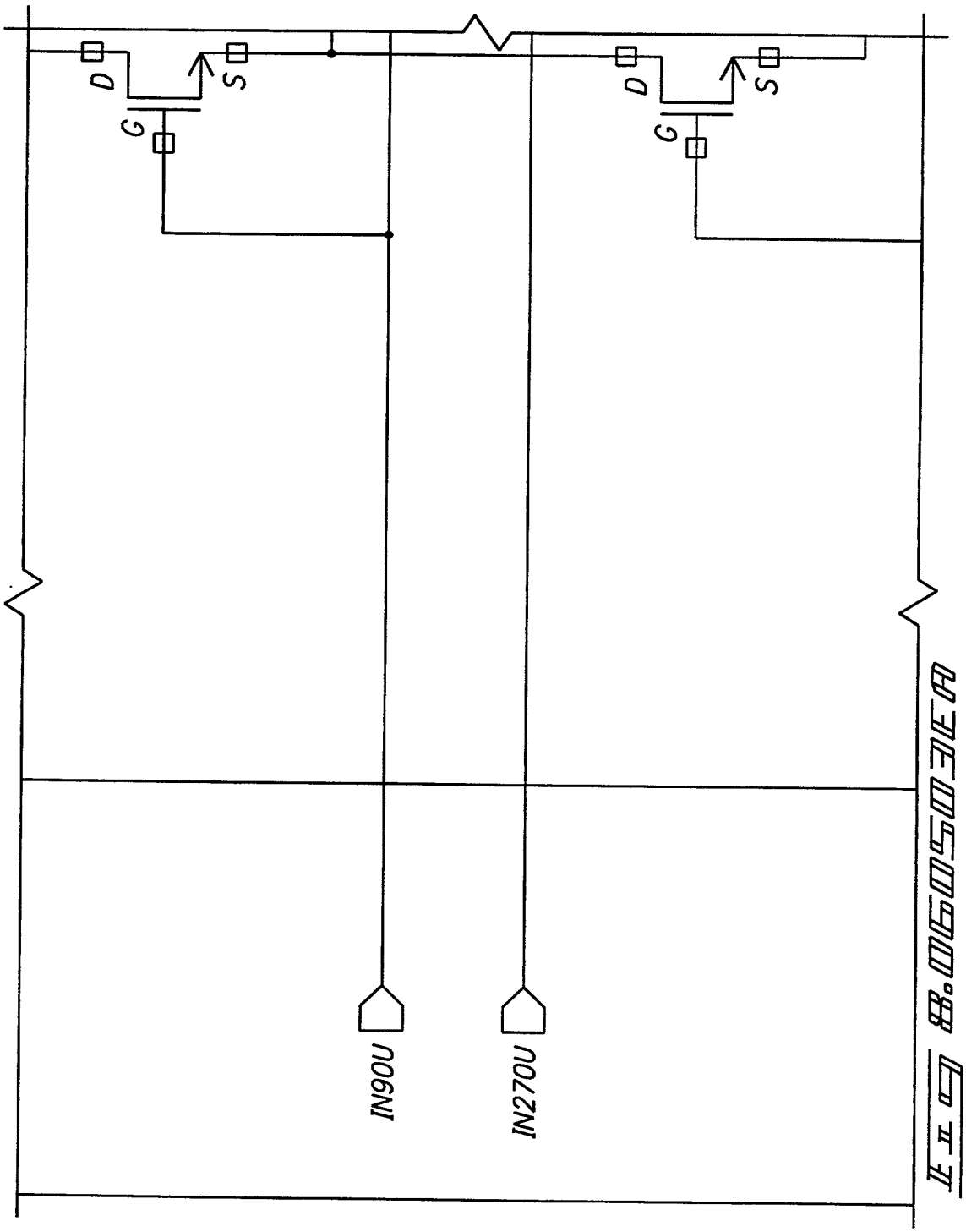
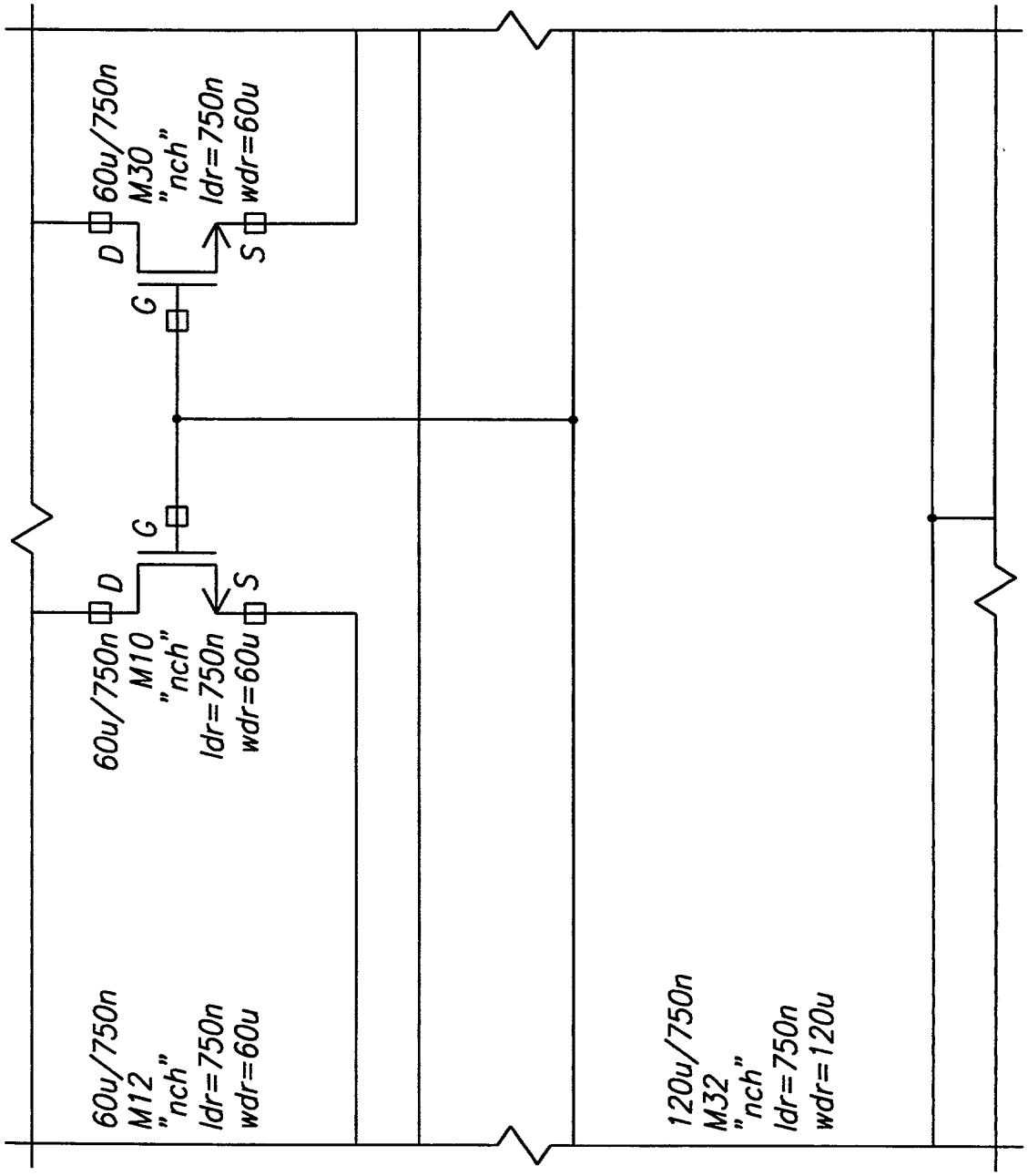


FIG 8.0500E

Petitpas - 2014/3273

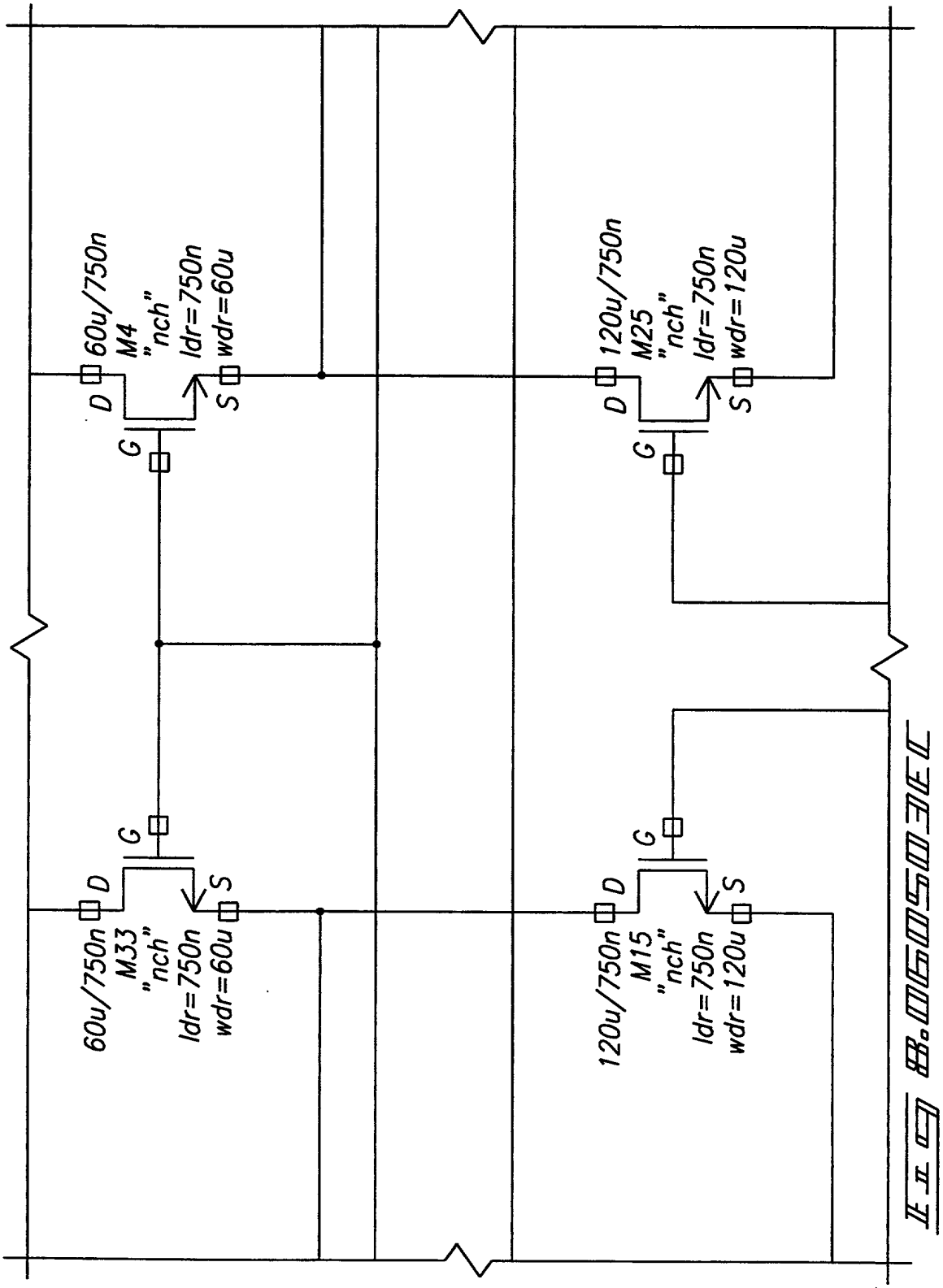


EP 2 950 154 A1

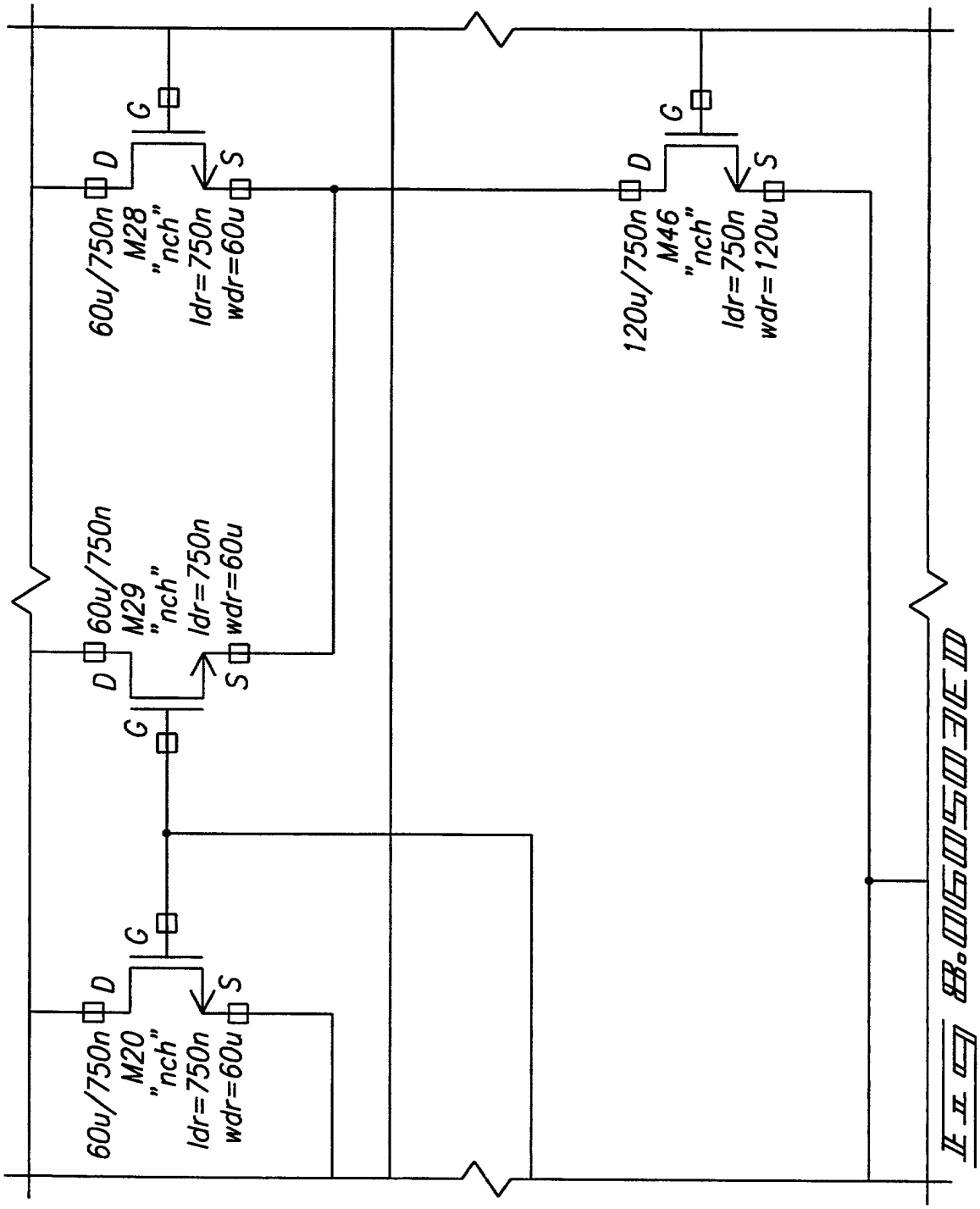


Фиг. 8.0505ЕЛВ

EP 3 229 259 B1

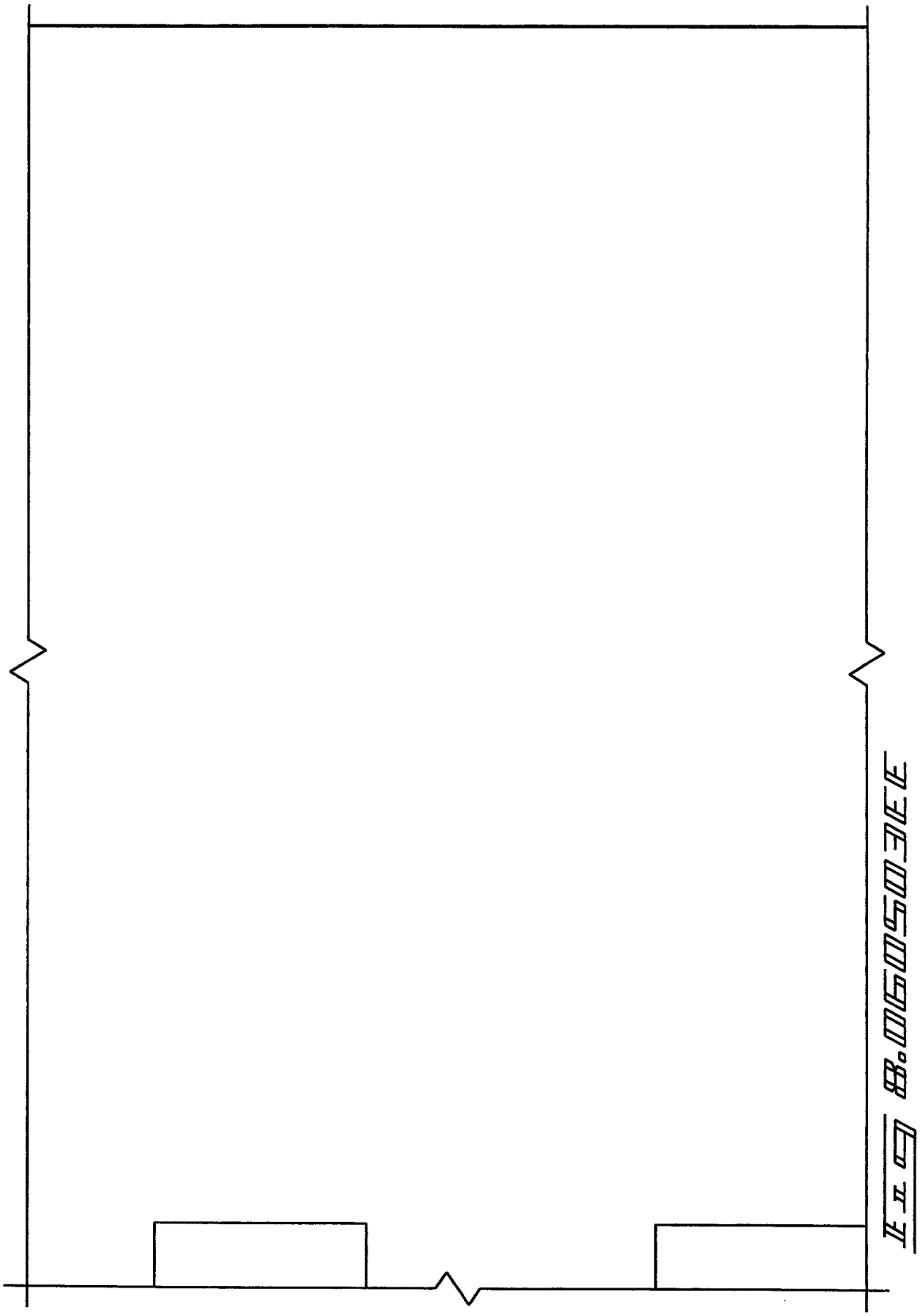


EP3273B1 20170802

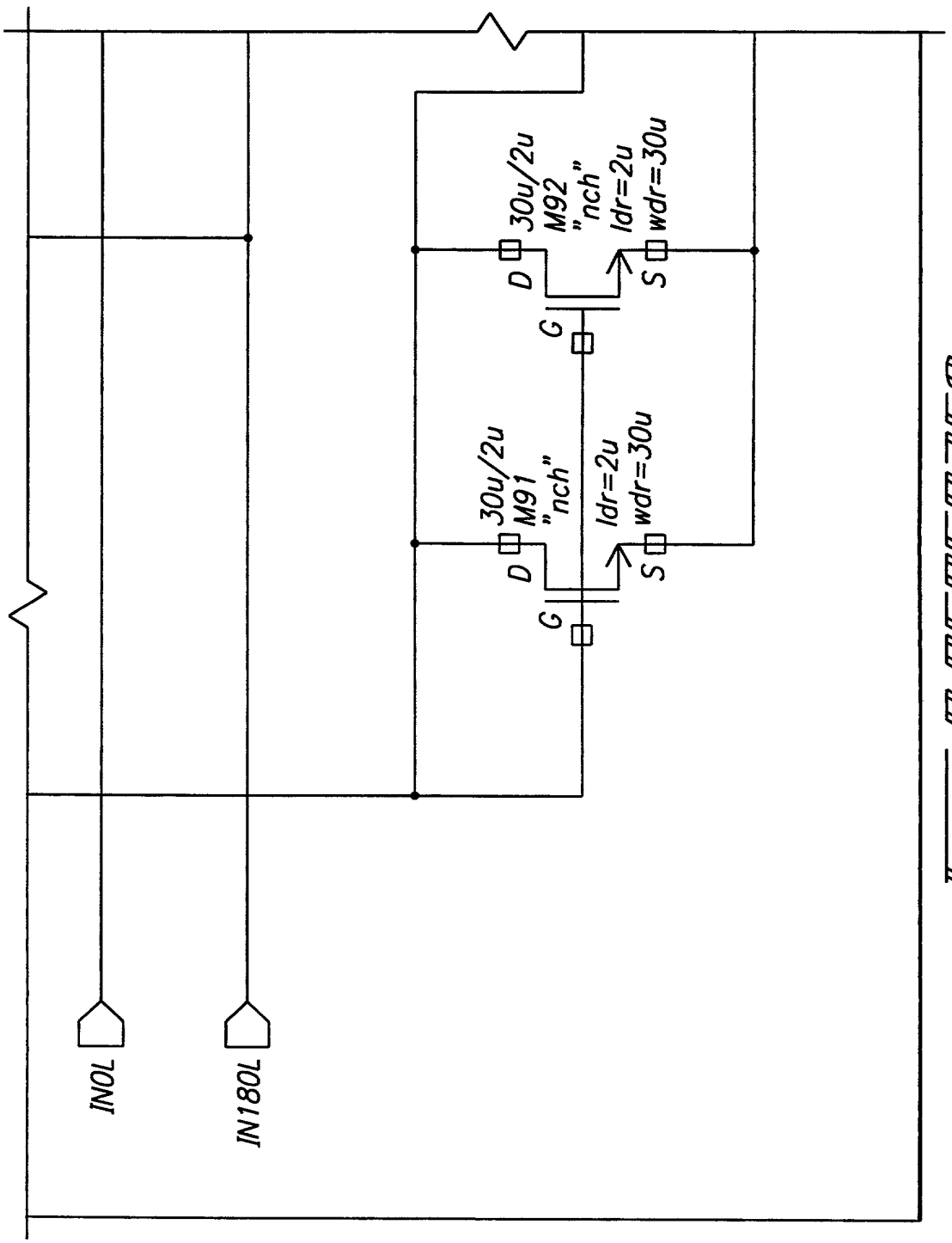


Electronic Signature

2019/3273

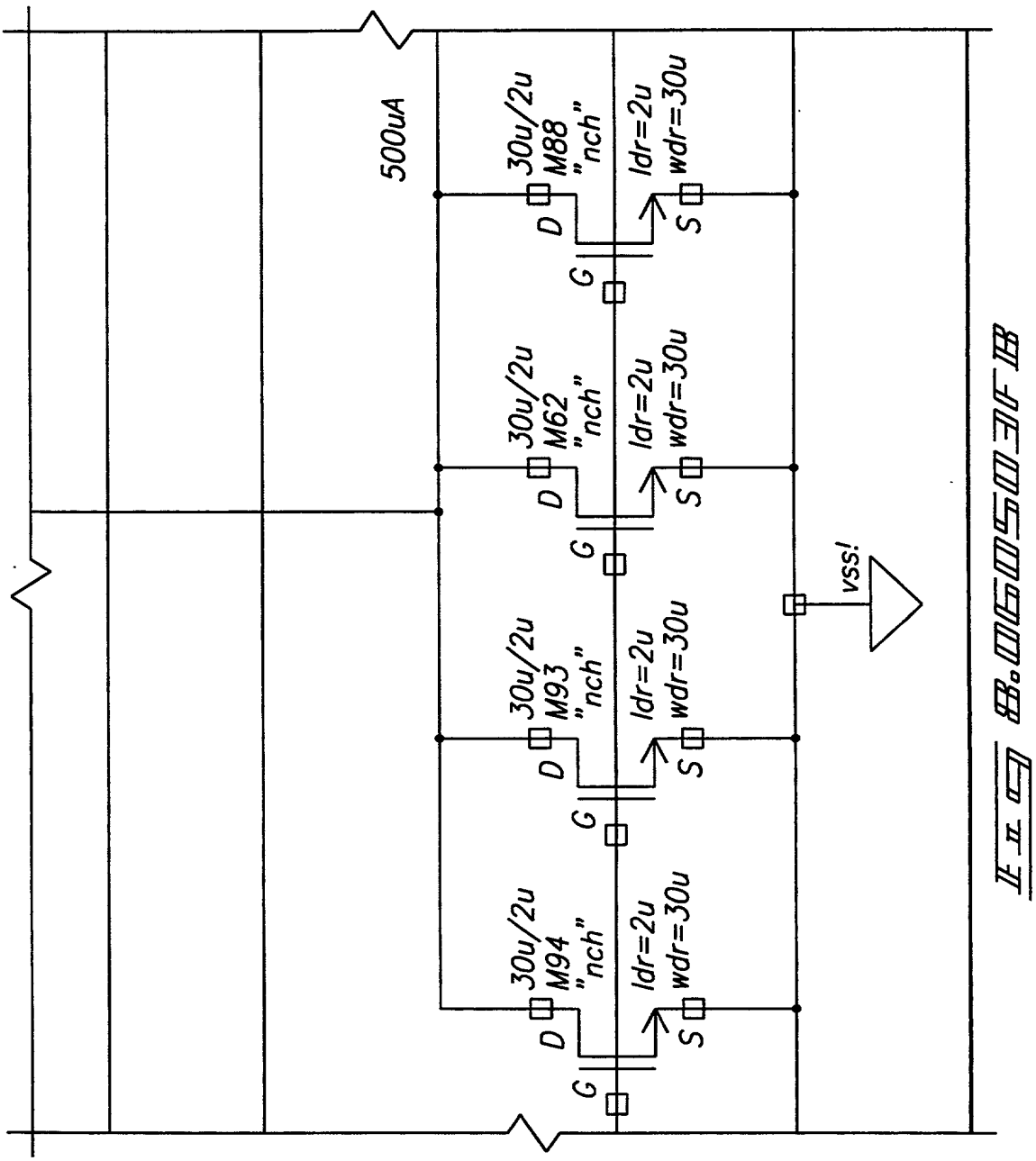


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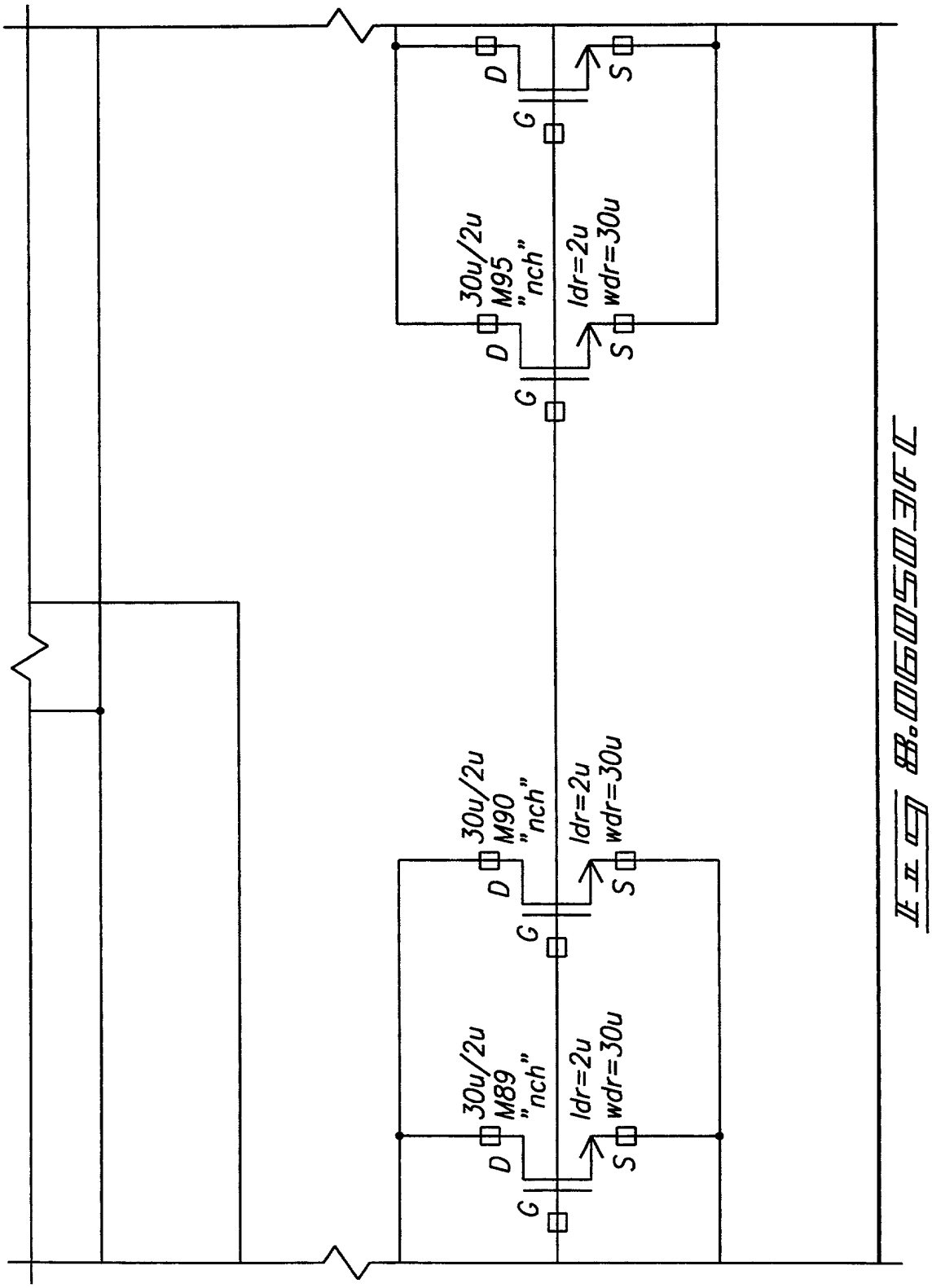


Фиг. 8.

EP 3 764 258 A1

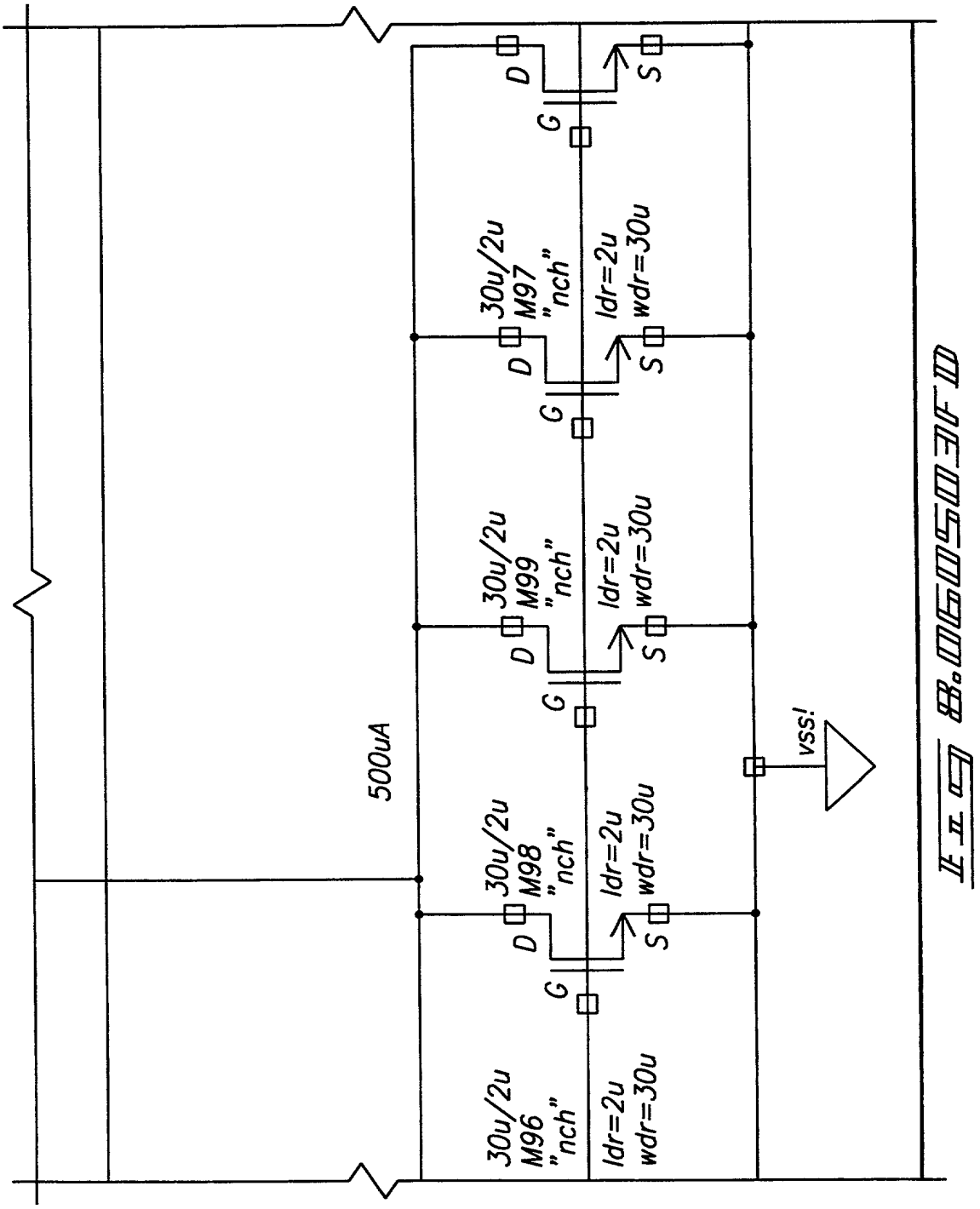


Фиг. 88.0500.88



Лист 8.050500.ЭЛ

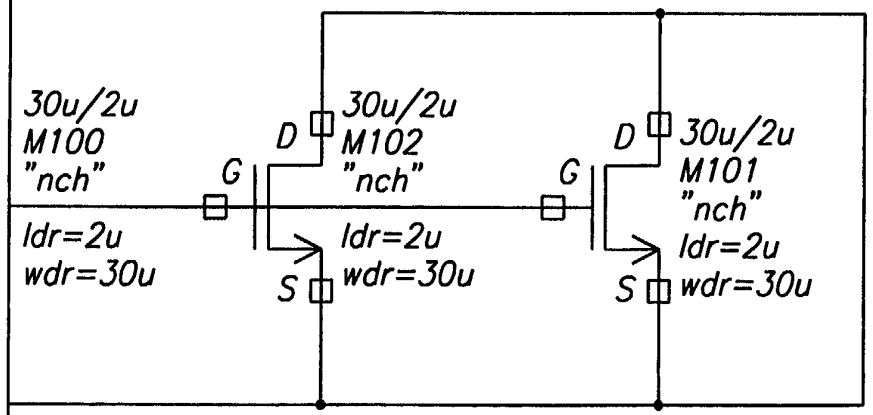
Patent Publication


Fig 8.0050
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ldr=2u
wdr=30u
30u/2u
M98
"nch"
ldr=2u
wdr=30u
30u/2u
M99
"nch"
ldr=2u
wdr=30u
30u/2u
M97
"nch"
ldr=2u
wdr=30u
D
G
S
vss!

NOTES

Use 50u segments for all devices.
Minimize capacitance on all nodes (drains have priority).
Share all source and drain nodes.
Allow +/- 20% adjustment on resistors at power supply end.

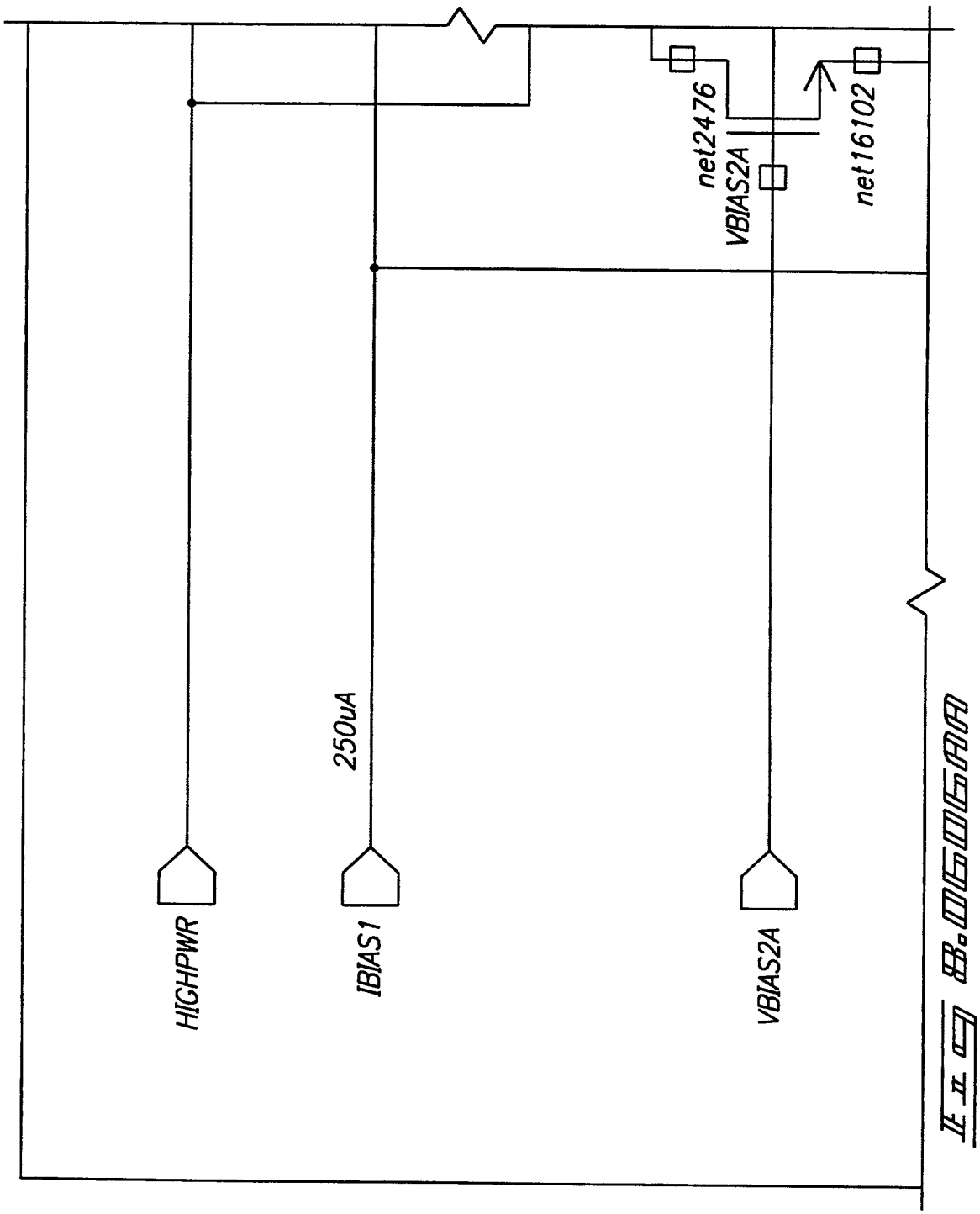
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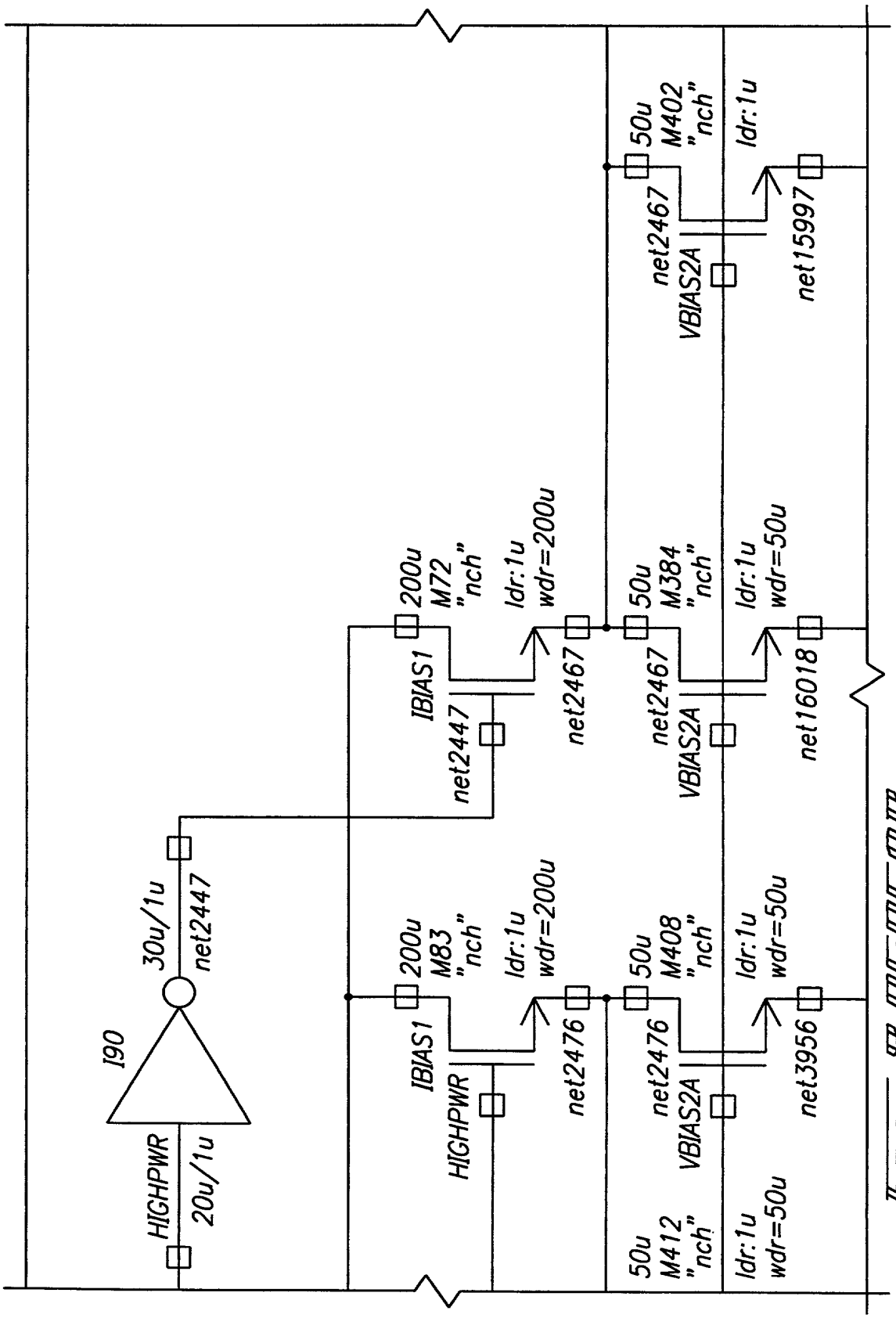
2024/3273

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8.0606CA	8.0606CB	8.0606CC	8.0606CD	8.0606CE	8.0606CF	8.0606CG	8.0606CH	8.0606CI
8.0606DA	8.0606DB	8.0606DC	8.0606DD	8.0606DE	8.0606DF	8.0606DG	8.0606DH	8.0606DI
8.0606EA	8.0606EB	8.0606EC	8.0606ED	8.0606EE	8.0606EF	8.0606EG	8.0606EH	8.0606EI
8.0606FA	8.0606FB	8.0606FC	8.0606FD	8.0606FE	8.0606FF	8.0606FG	8.0606FH	8.0606FI
		8.0606GC	8.0606GD	8.0606GE				
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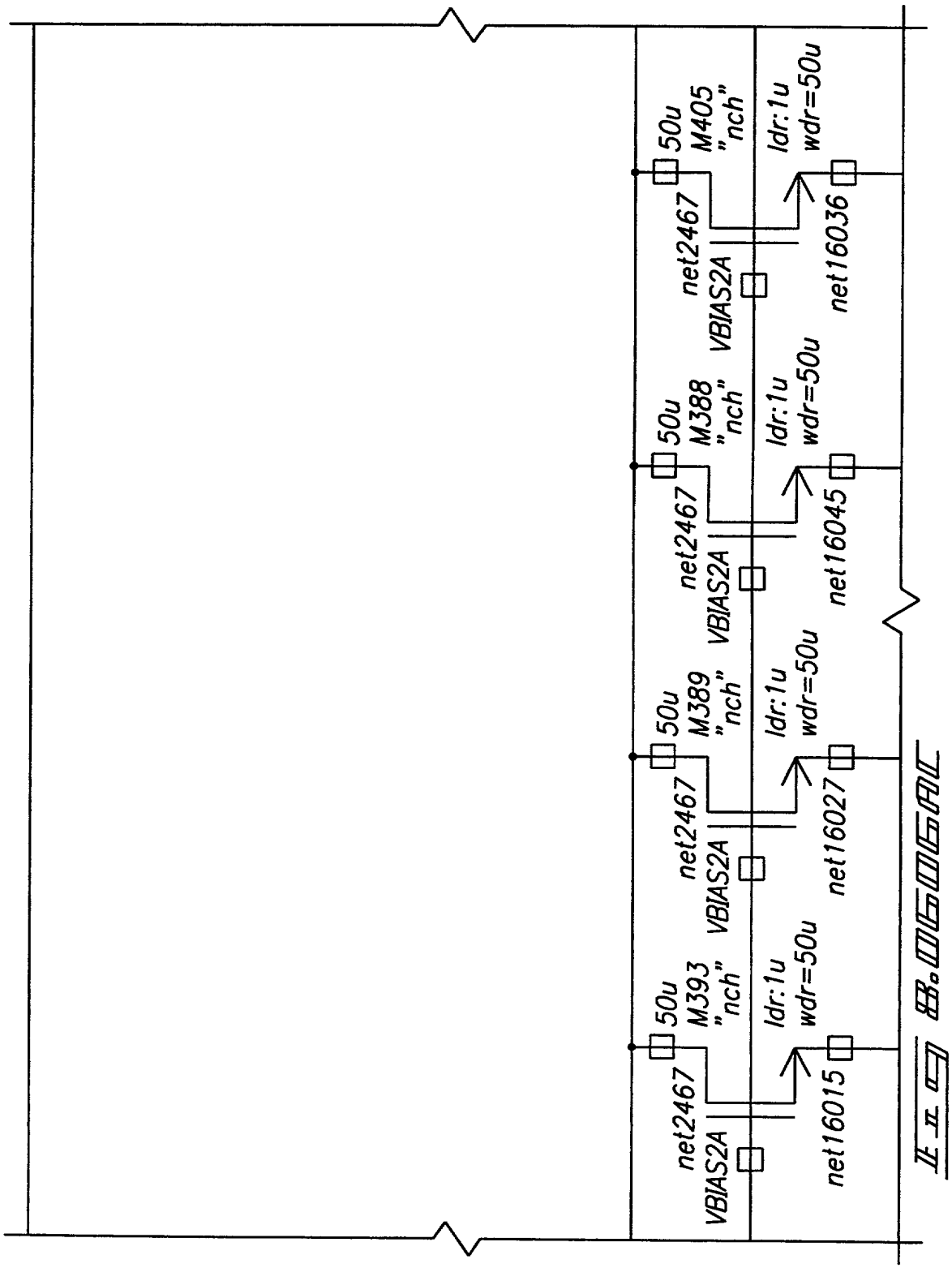
Fig 8.0606

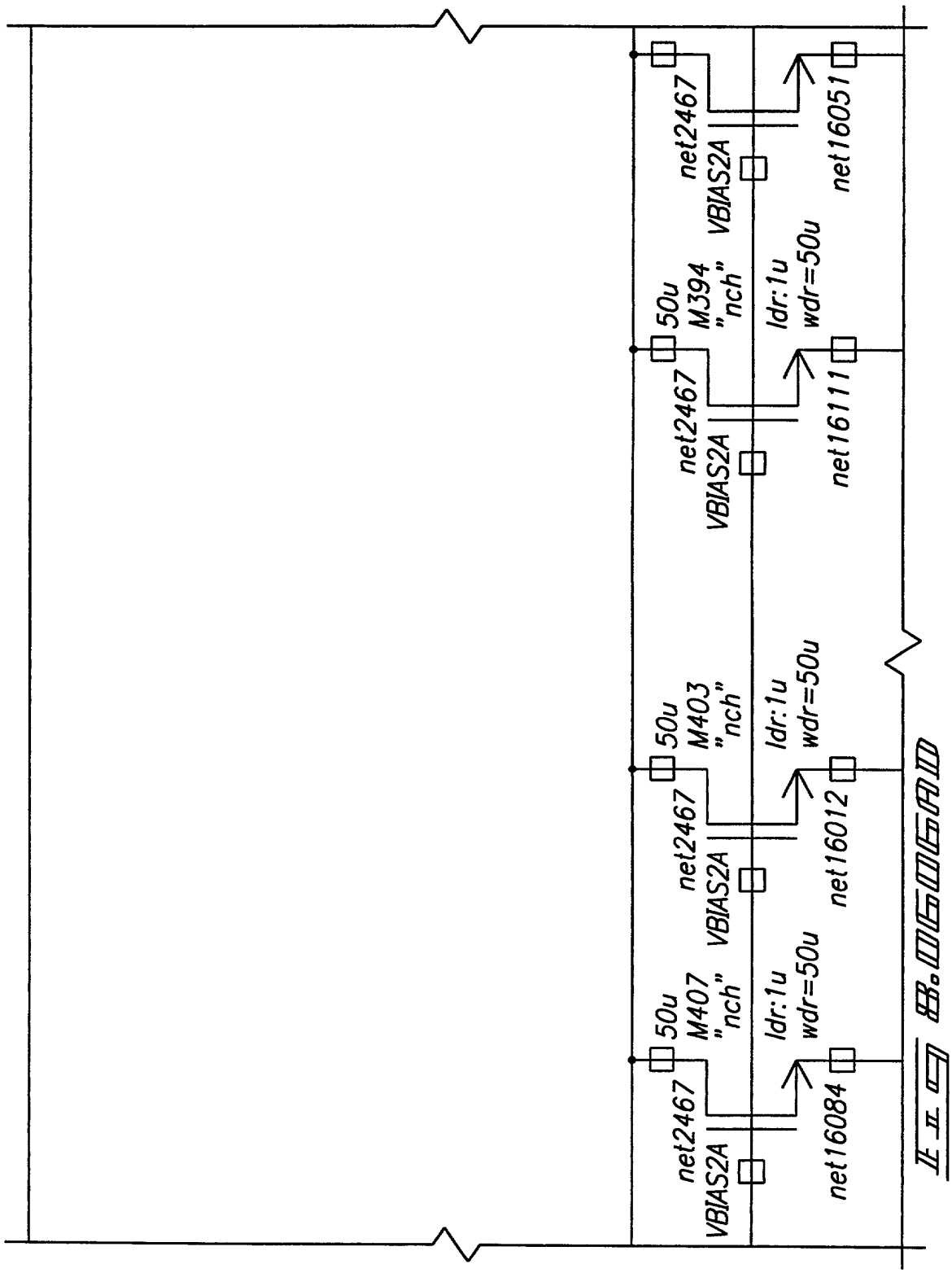


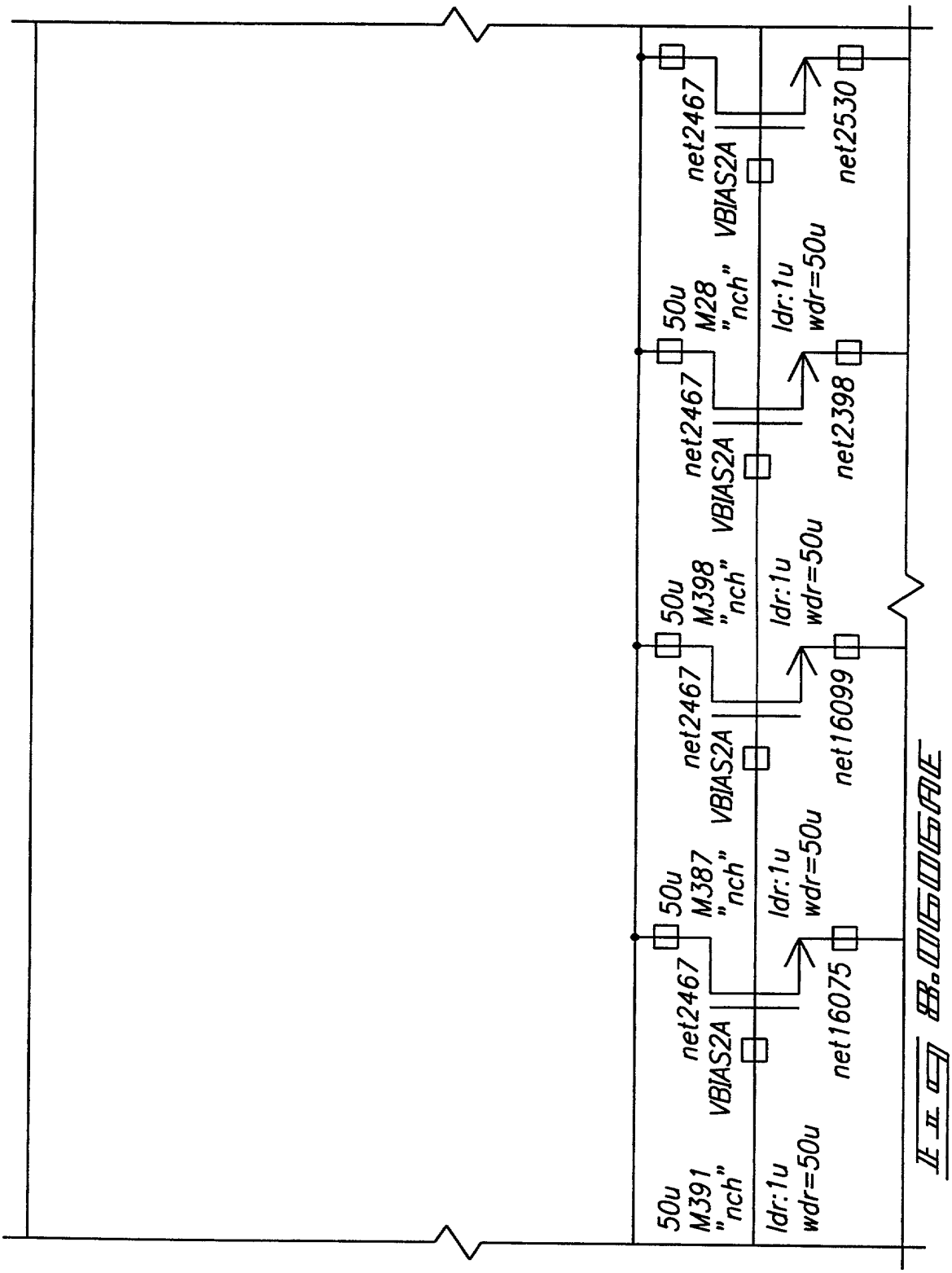
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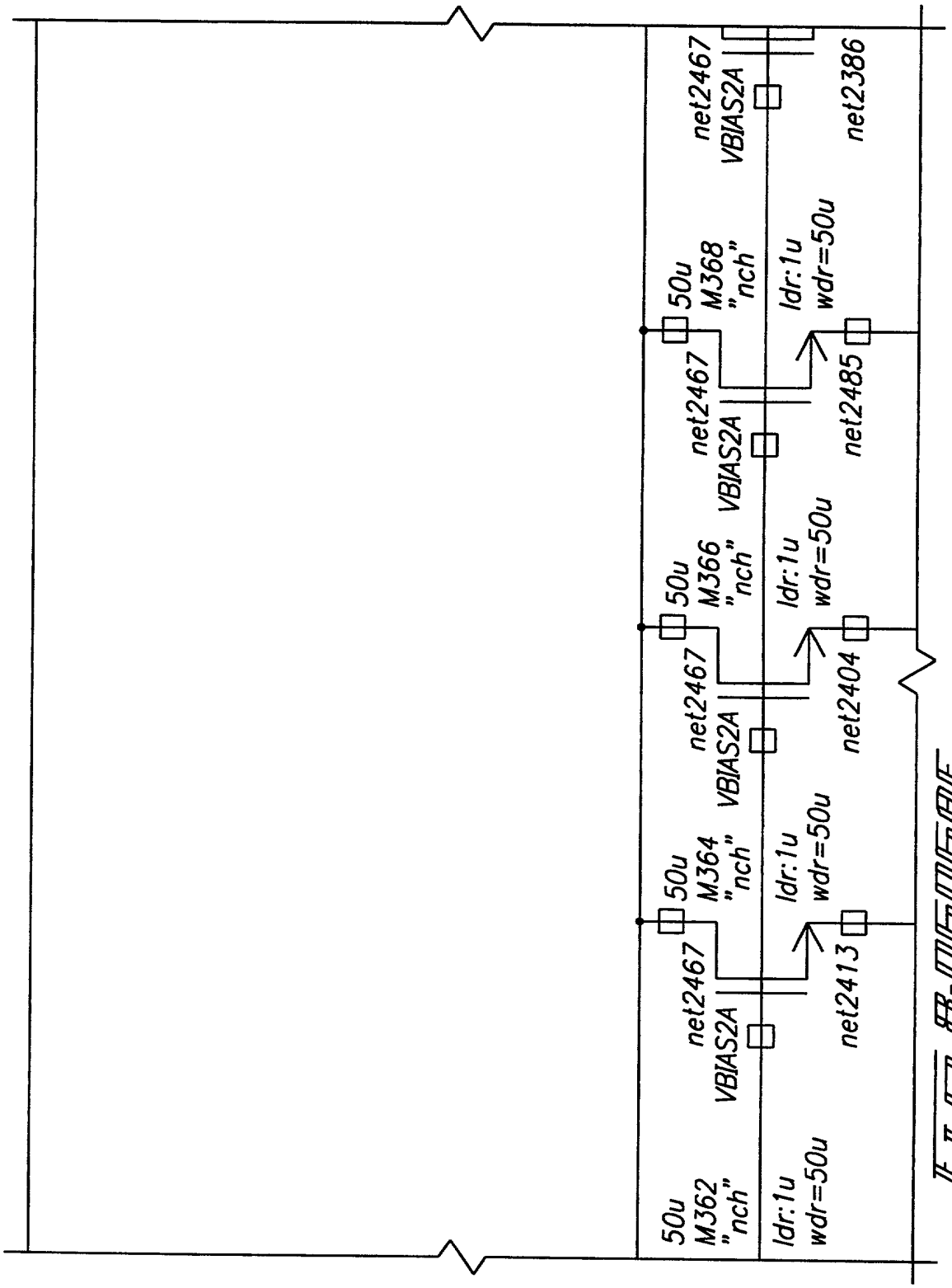


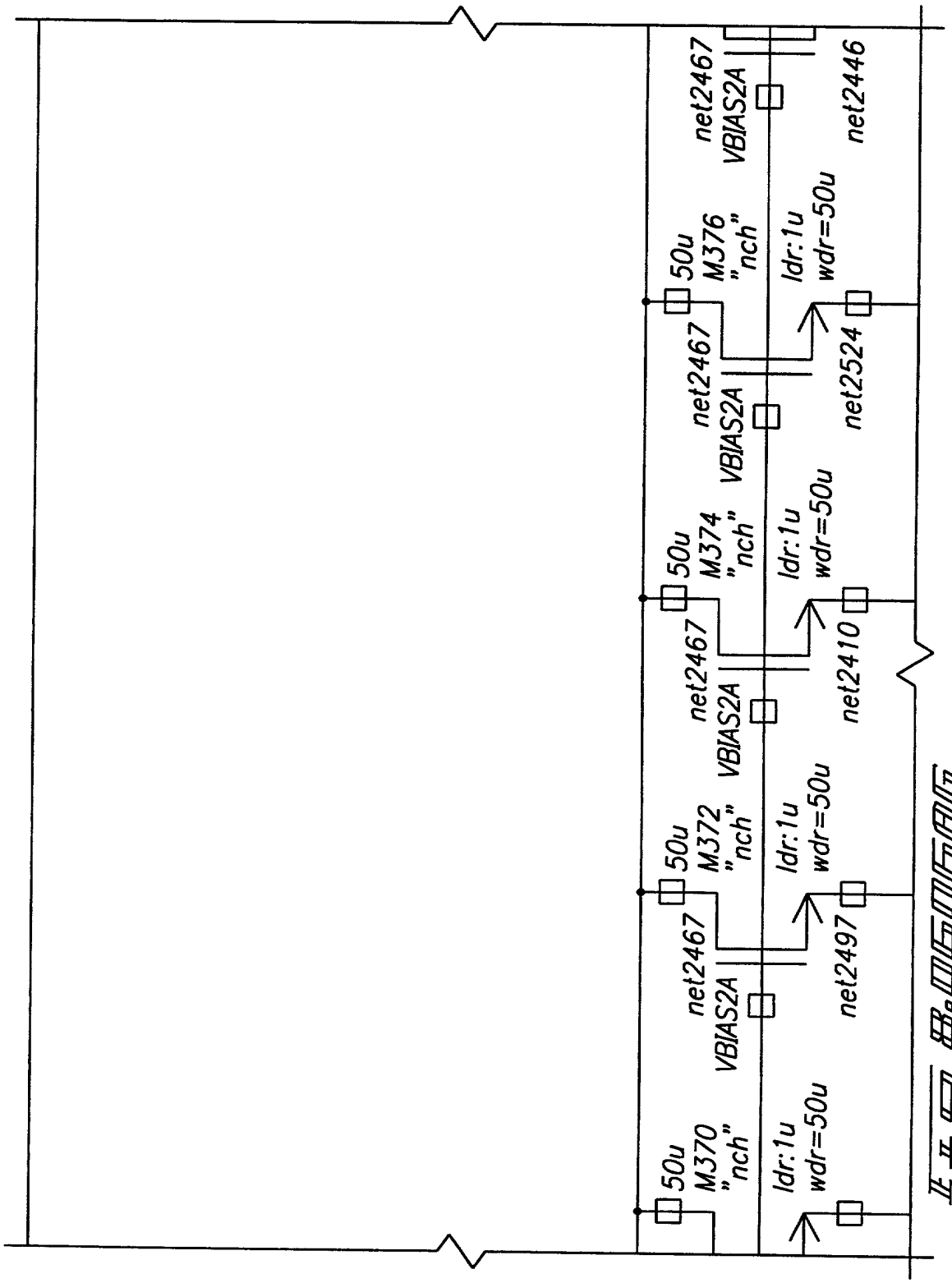
US 11,190,150 B2

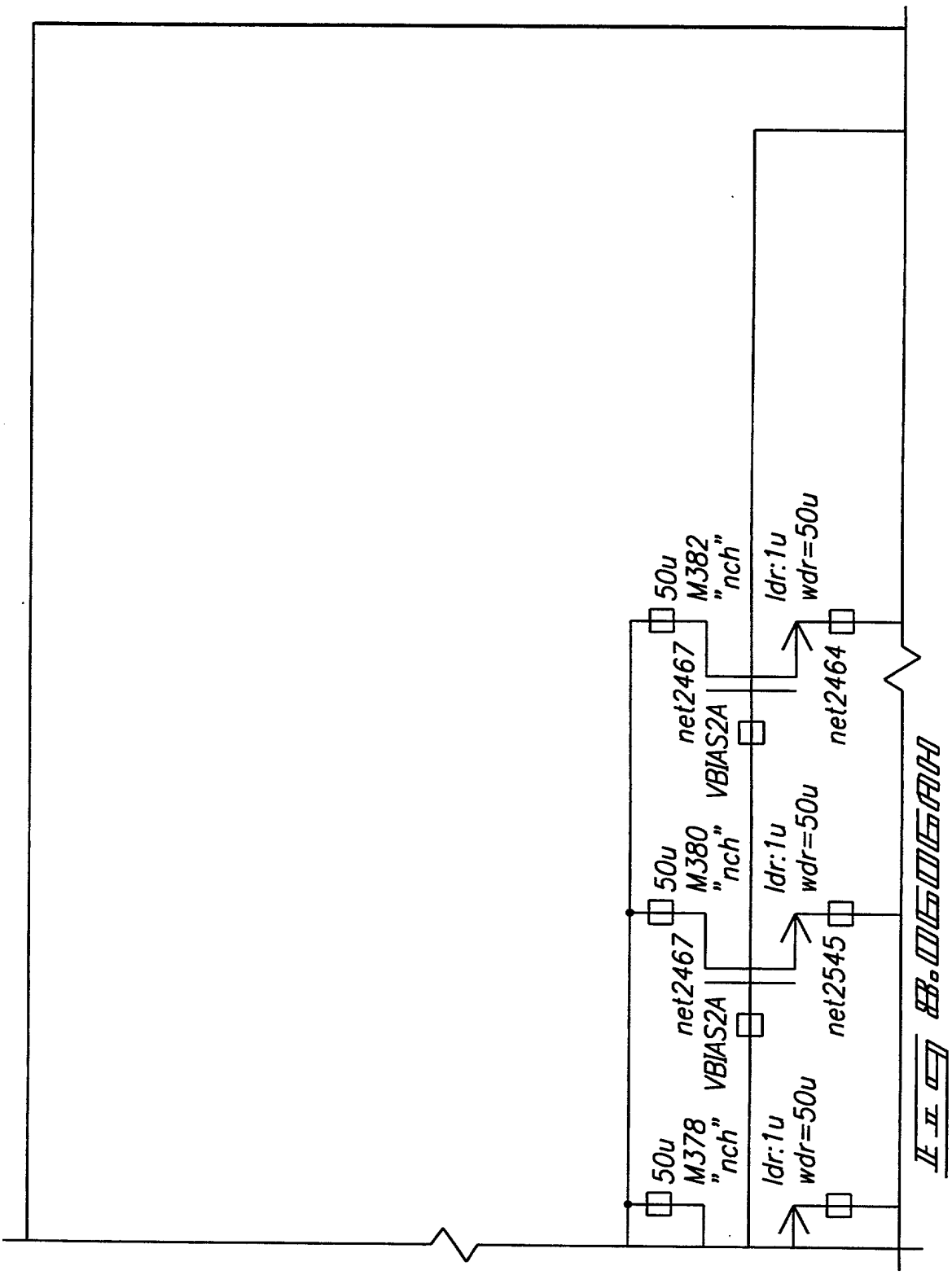

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wdr=50u
net16027
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50u
M389
"nch"
ldr:1u
wdr=50u
net16045
net2467
VBIAS2A
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M388
"nch"
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wdr=50u
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M405
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ldr:1u
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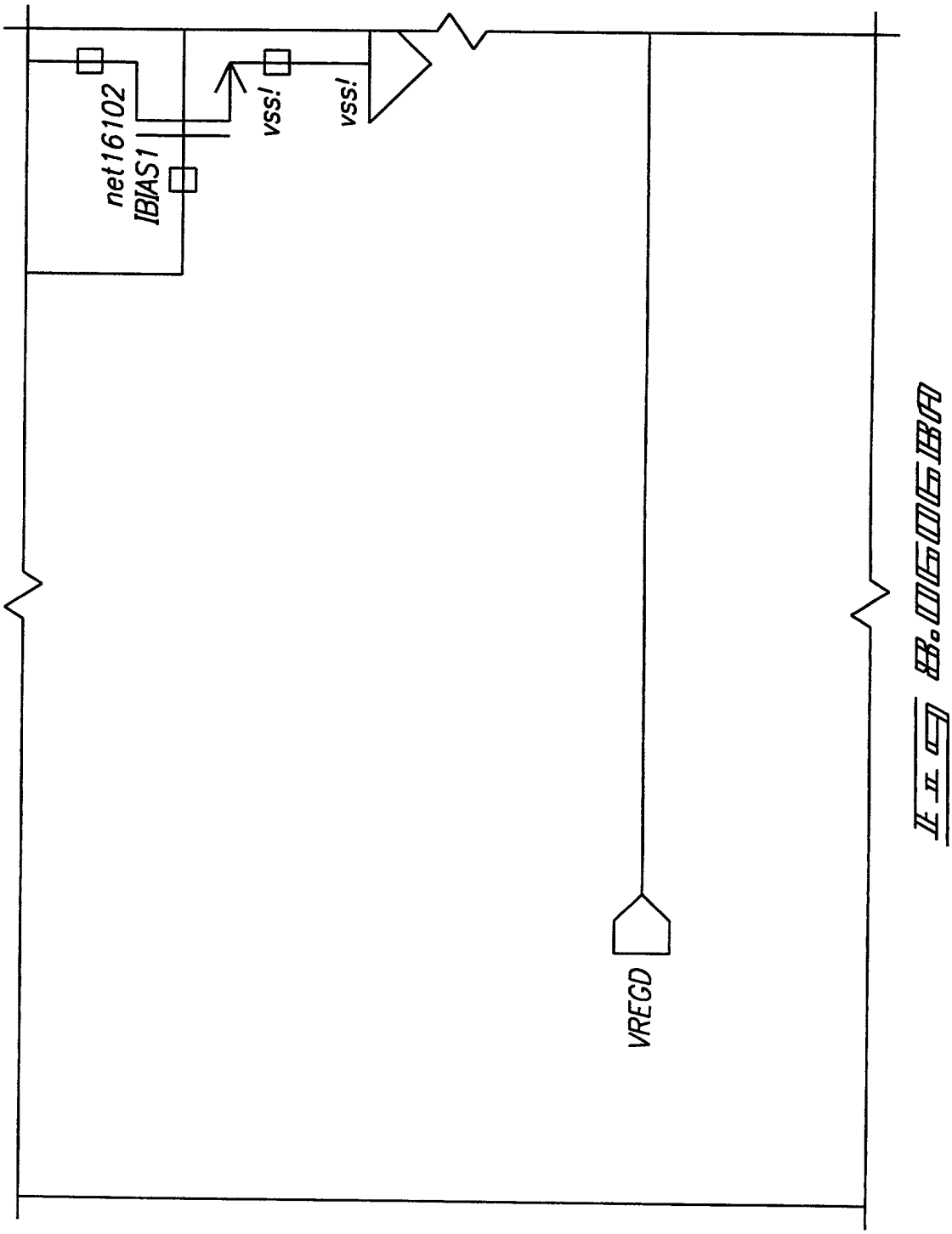

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wdr=50u
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wdr=50u
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50u
M407
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ldr:1u
wdr=50u
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VBIAS2A


50u
M391
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50u
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50u
M398
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wdr=50u
net2467
VBIAS2A
net2398
50u
M28
"nch"
ldr:1u
wdr=50u
net2467
VBIAS2A
net2530


50u
M362
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ldr:1u
wdr=50u
net2467
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50u
M364
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ldr:1u
wdr=50u
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net2467
VBIAS2A
50u
M366
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ldr:1u
wdr=50u
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net2467
VBIAS2A
50u
M368
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VBIAS2A
net2386


net2446
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wdr=50u
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net2467
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50u
M374
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net2467
VBIAS2A
50u
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Patent 5,952,695 - 05-14-1999

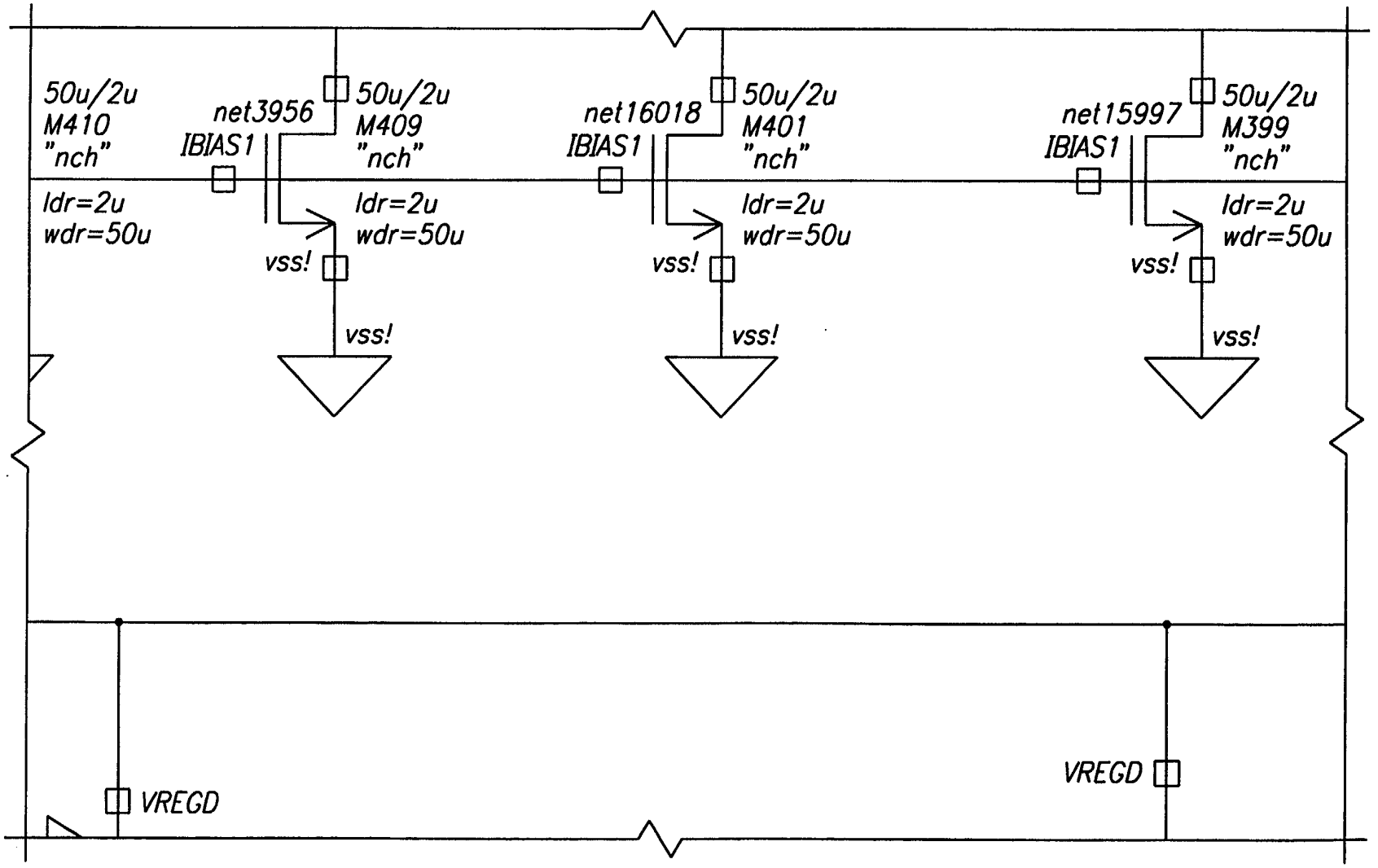

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ldr=2u
wdr=50u
net3956
IBIAS1
50u/2u
M409
"nch"
ldr=2u
wdr=50u
vss!
vss!
net16018
IBIAS1
50u/2u
M401
"nch"
ldr=2u
wdr=50u
vss!
vss!
net15997
IBIAS1
50u/2u
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VREGD
VREGD
2035/3273

Fig 8.0606BB

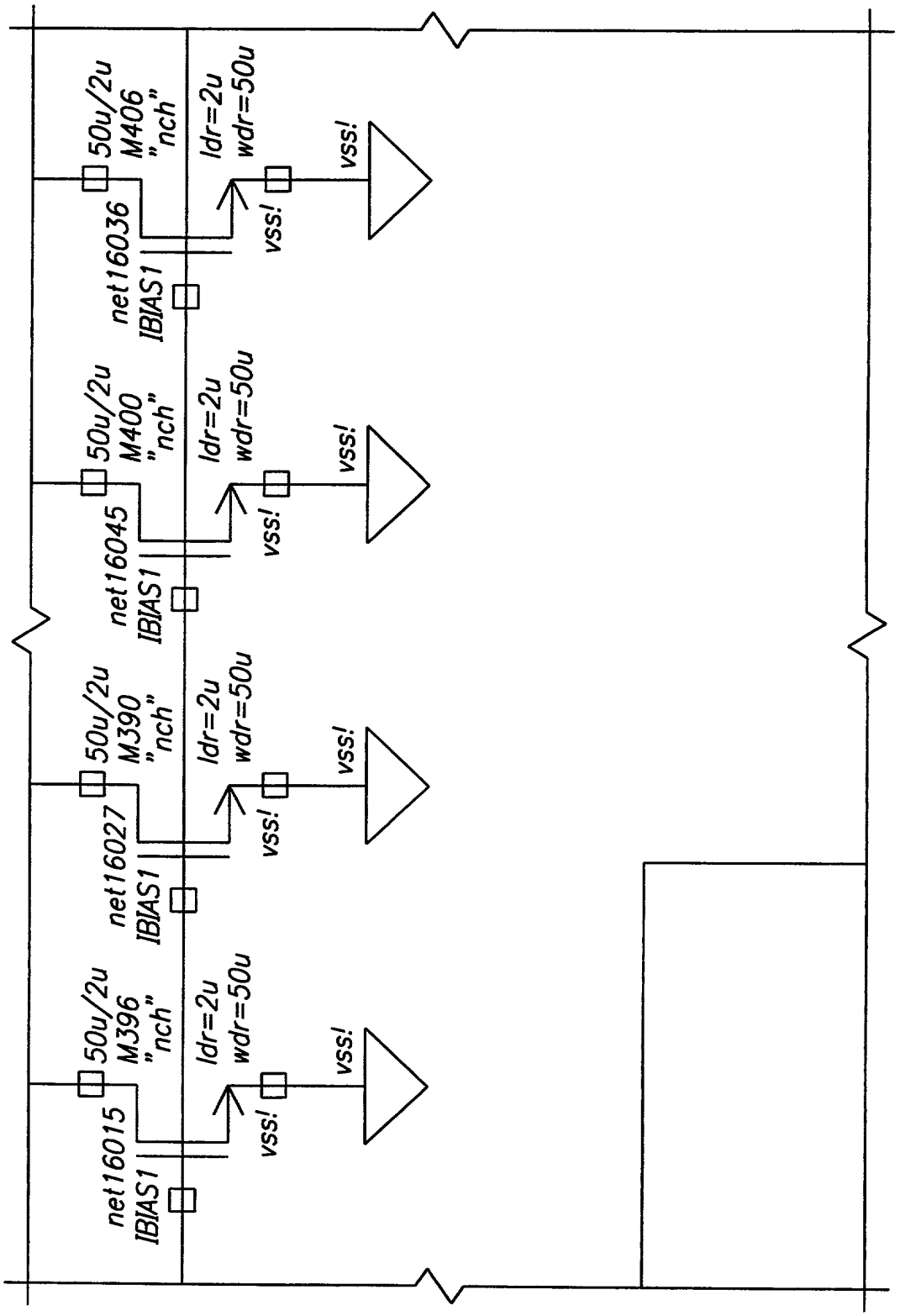


FIG 8.0050181

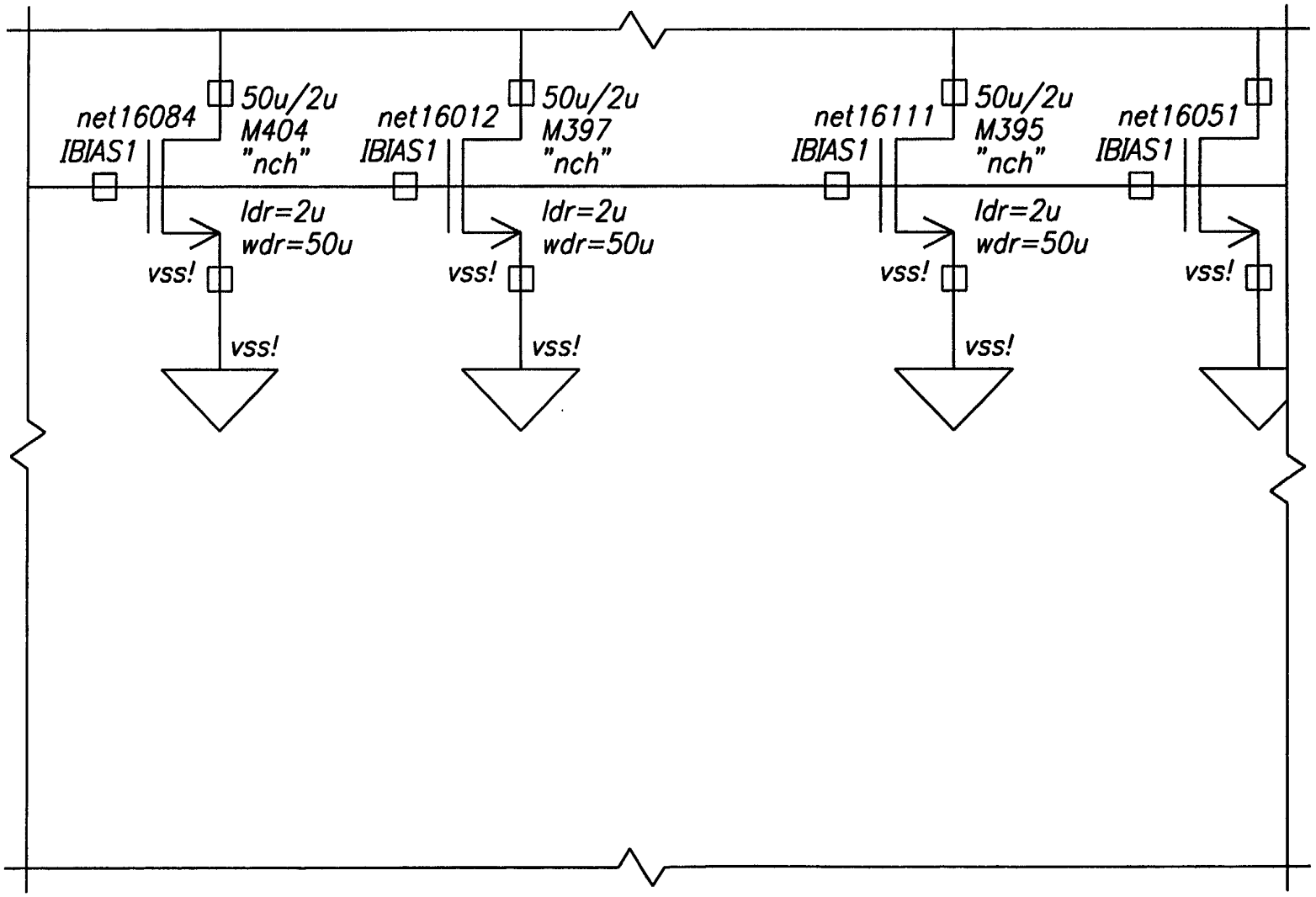

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net16012
IBIAS1
50u/2u
M397
"nch"
ldr=2u
wdr=50u
vss!
vss!
net16111
IBIAS1
50u/2u
M395
"nch"
ldr=2u
wdr=50u
vss!
vss!
net16051
IBIAS1
vss!
vss!

Fig 8.06068D

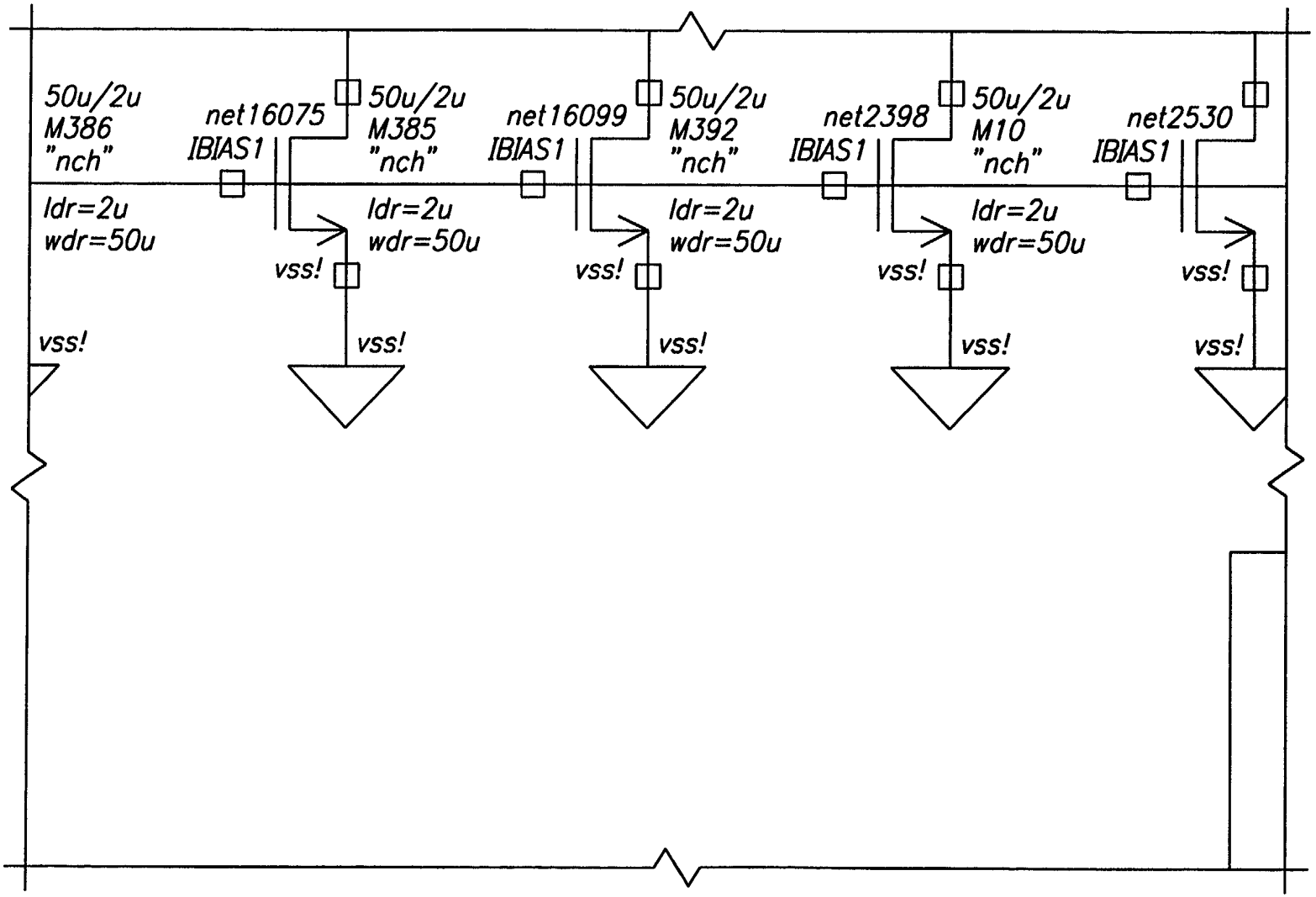

50u/2u
M386
"nch"
ldr=2u
wdr=50u
vss!
net16075
IBIAS1
50u/2u
M385
"nch"
ldr=2u
wdr=50u
vss!
vss!
net16099
IBIAS1
50u/2u
M392
"nch"
ldr=2u
wdr=50u
vss!
vss!
net2398
IBIAS1
50u/2u
M10
"nch"
ldr=2u
wdr=50u
vss!
vss!
net2530
IBIAS1
vss!
vss!

Fig 8.0606BE

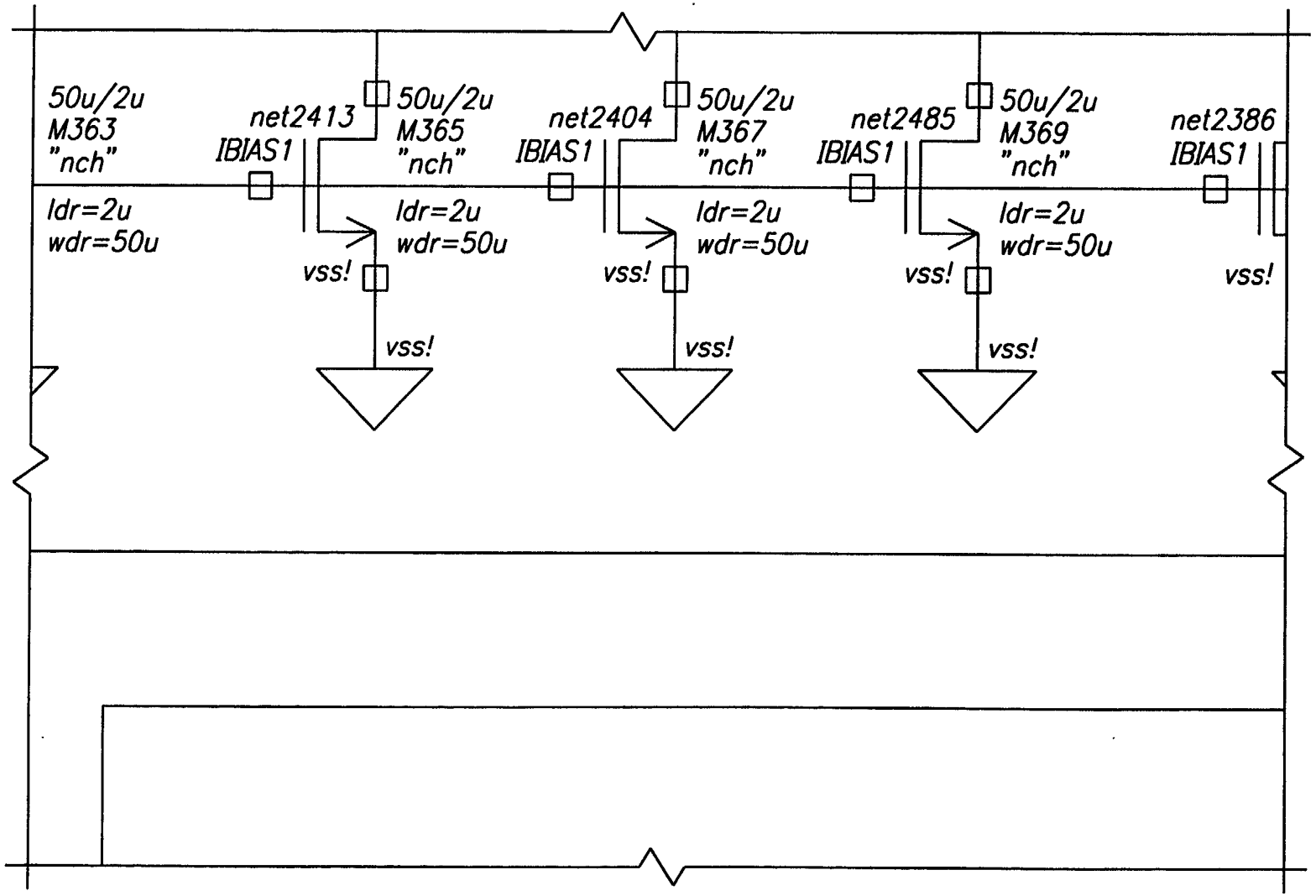

50u/2u
M363
"nch"
ldr=2u
wdr=50u
net2413
IBIAS1
50u/2u
M365
"nch"
ldr=2u
wdr=50u
vss!
vss!
net2404
IBIAS1
50u/2u
M367
"nch"
ldr=2u
wdr=50u
vss!
vss!
net2485
IBIAS1
50u/2u
M369
"nch"
ldr=2u
wdr=50u
vss!
vss!
net2386
IBIAS1
vss!

Fig 8.0606BF

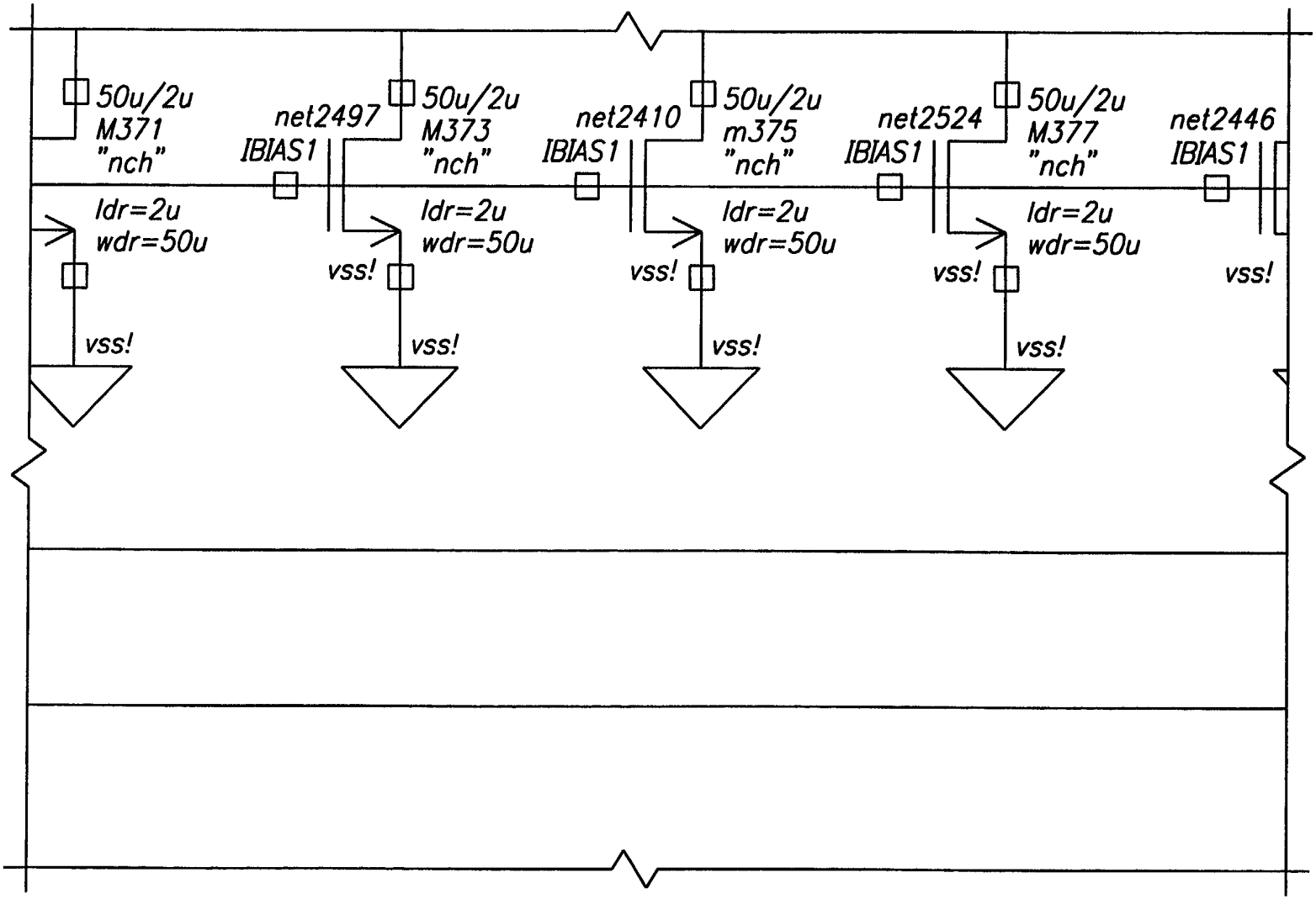
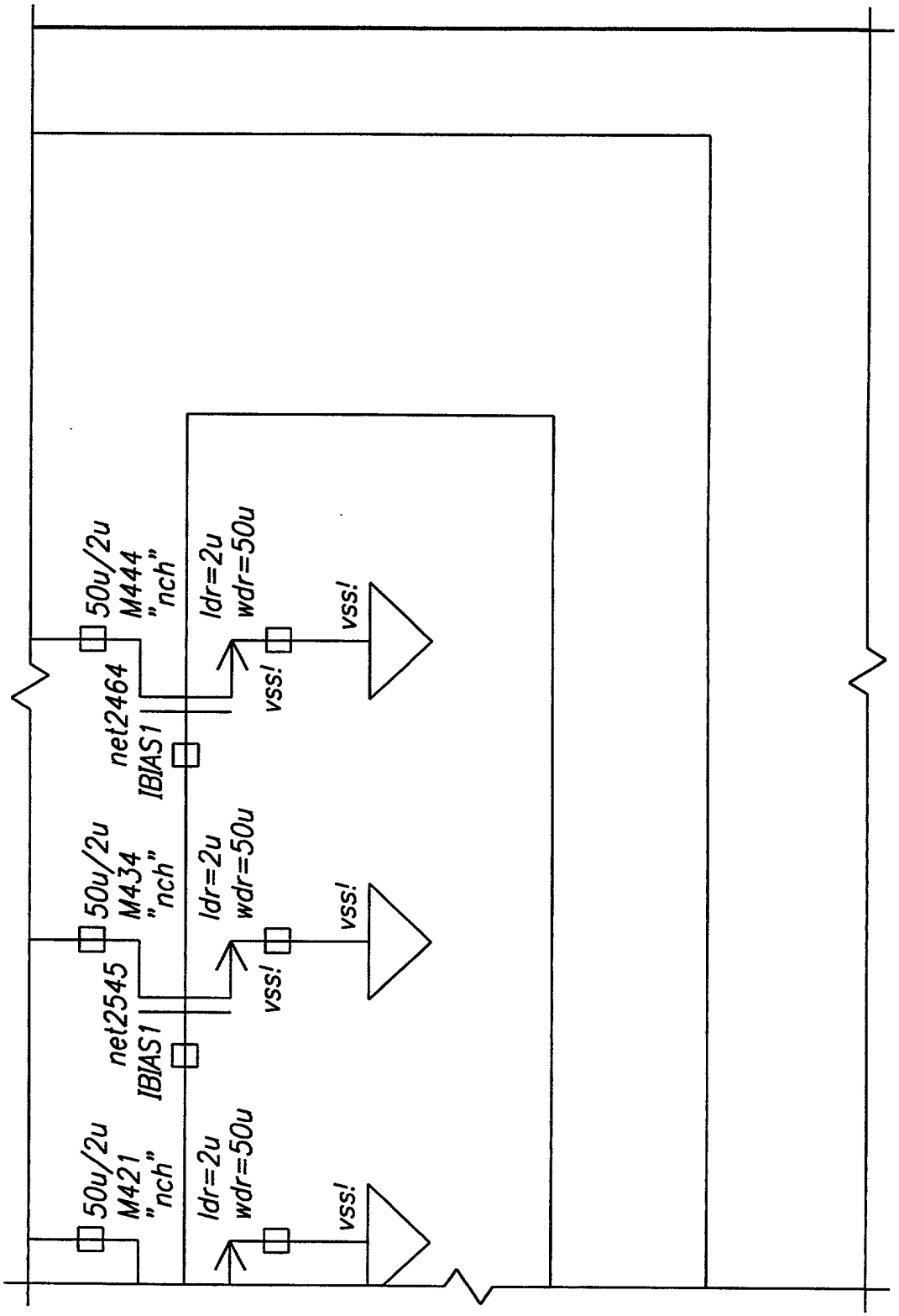
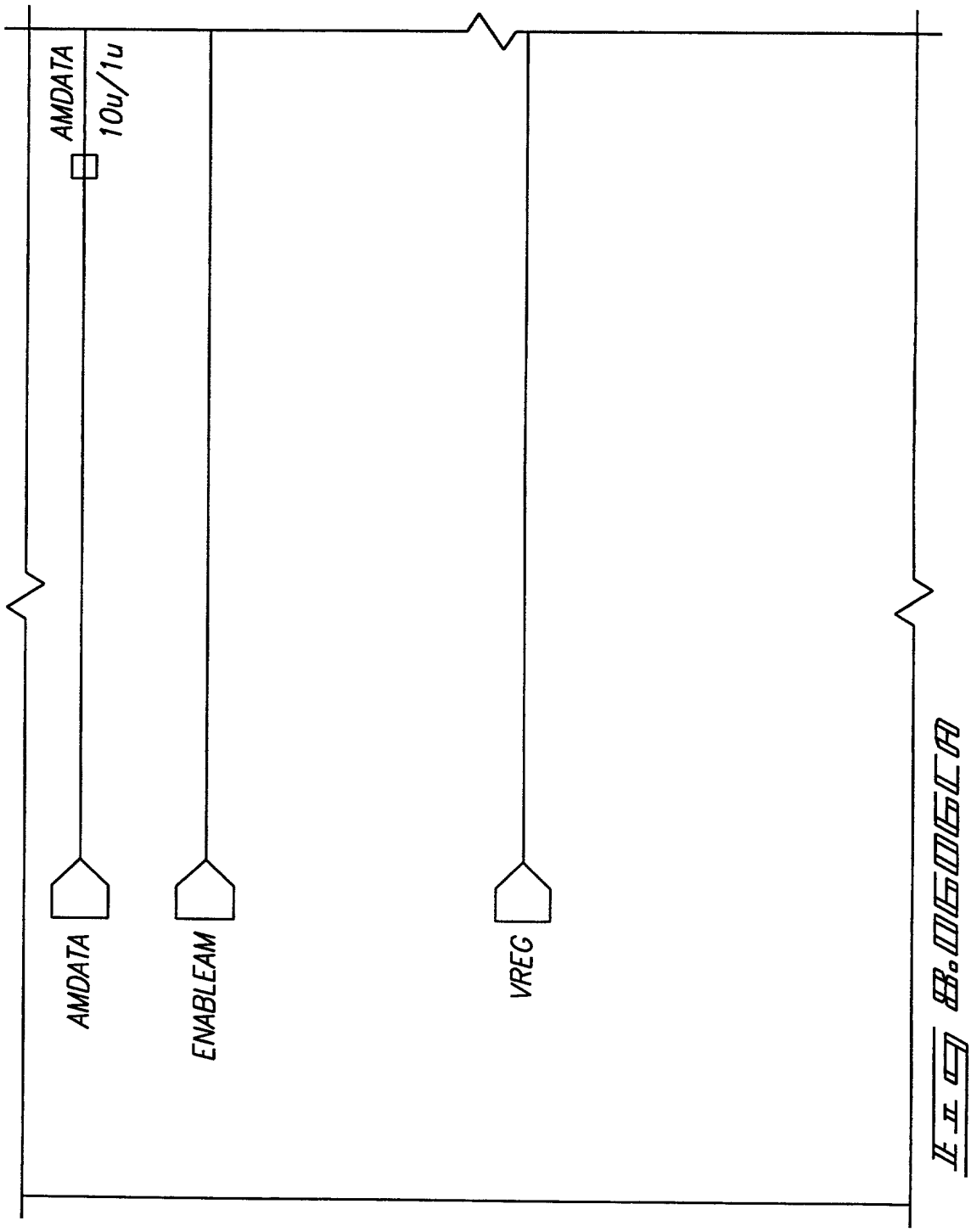
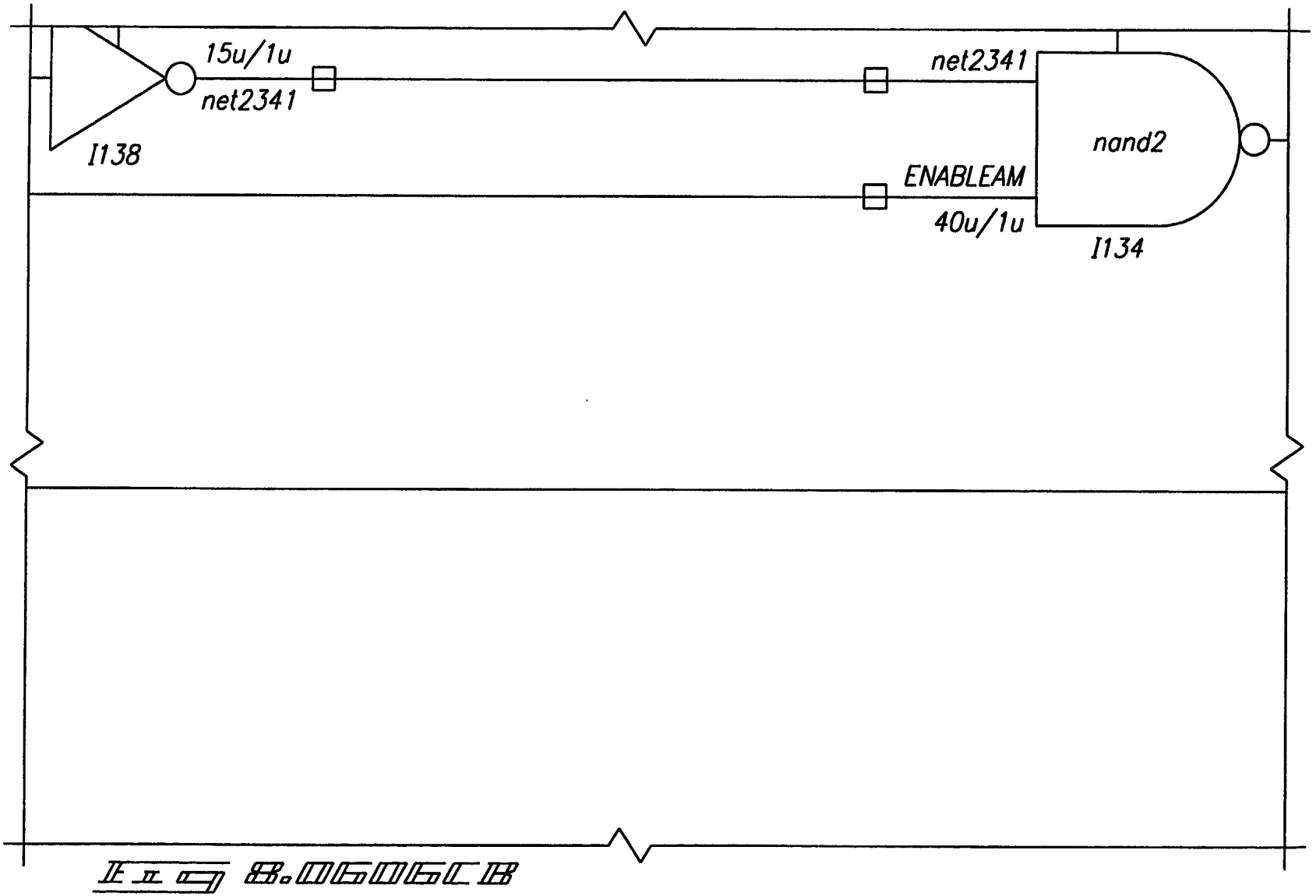

50u/2u
M371
"nch"
ldr=2u
wdr=50u
vss!
net2497
IBIAS1
50u/2u
M373
"nch"
ldr=2u
wdr=50u
vss!
net2410
IBIAS1
50u/2u
m375
"nch"
ldr=2u
wdr=50u
vss!
net2524
IBIAS1
50u/2u
M377
"nch"
ldr=2u
wdr=50u
vss!
net2446
IBIAS1
vss!

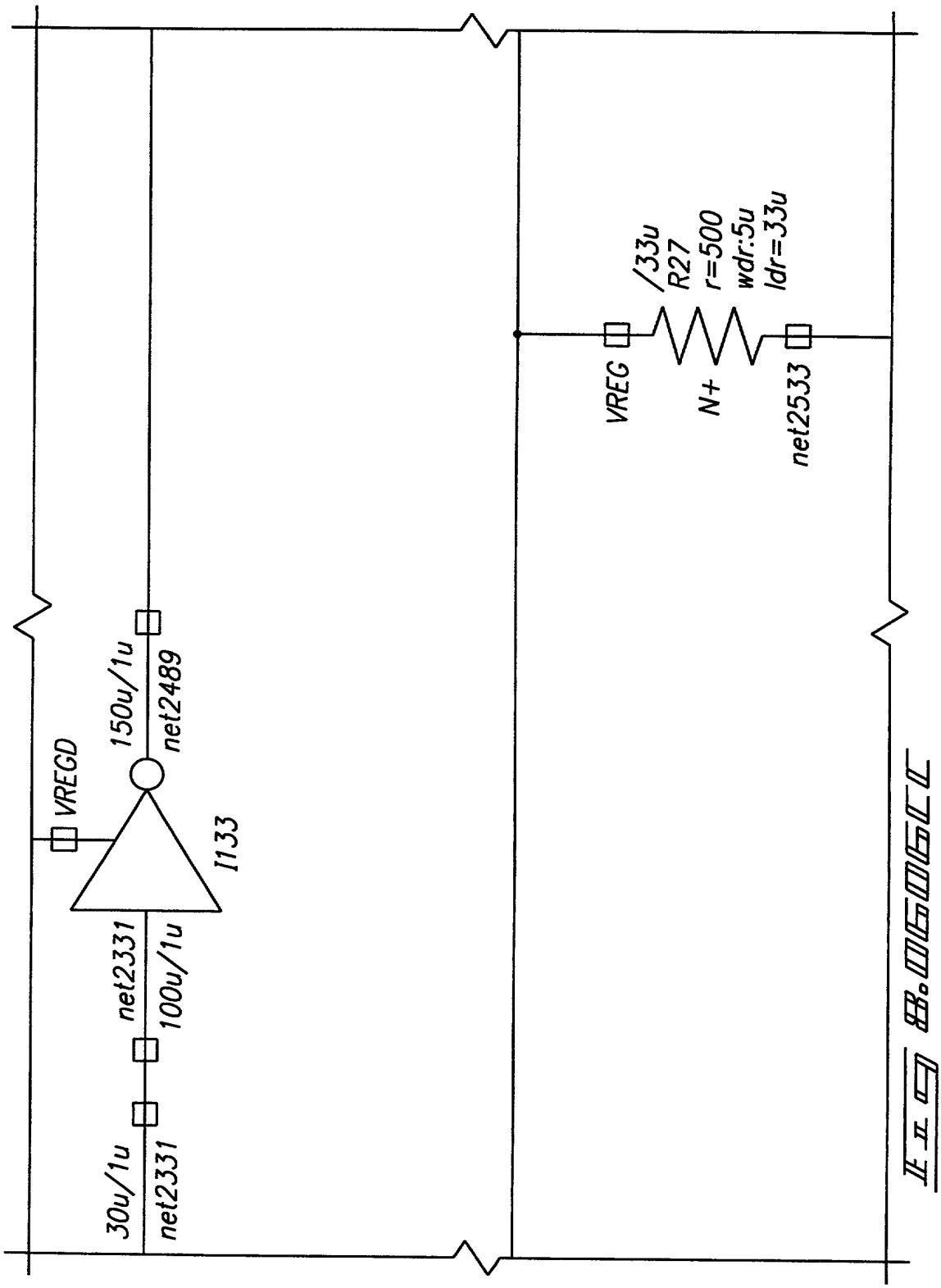
Fig 8.0606


50u/2u
M444
"nch"
net2464
IBIAS1
ldr=2u
wdr=50u
vss!
50u/2u
M434
"nch"
net2545
IBIAS1
ldr=2u
wdr=50u
vss!
50u/2u
M421
"nch"
ldr=2u
wdr=50u
vss!

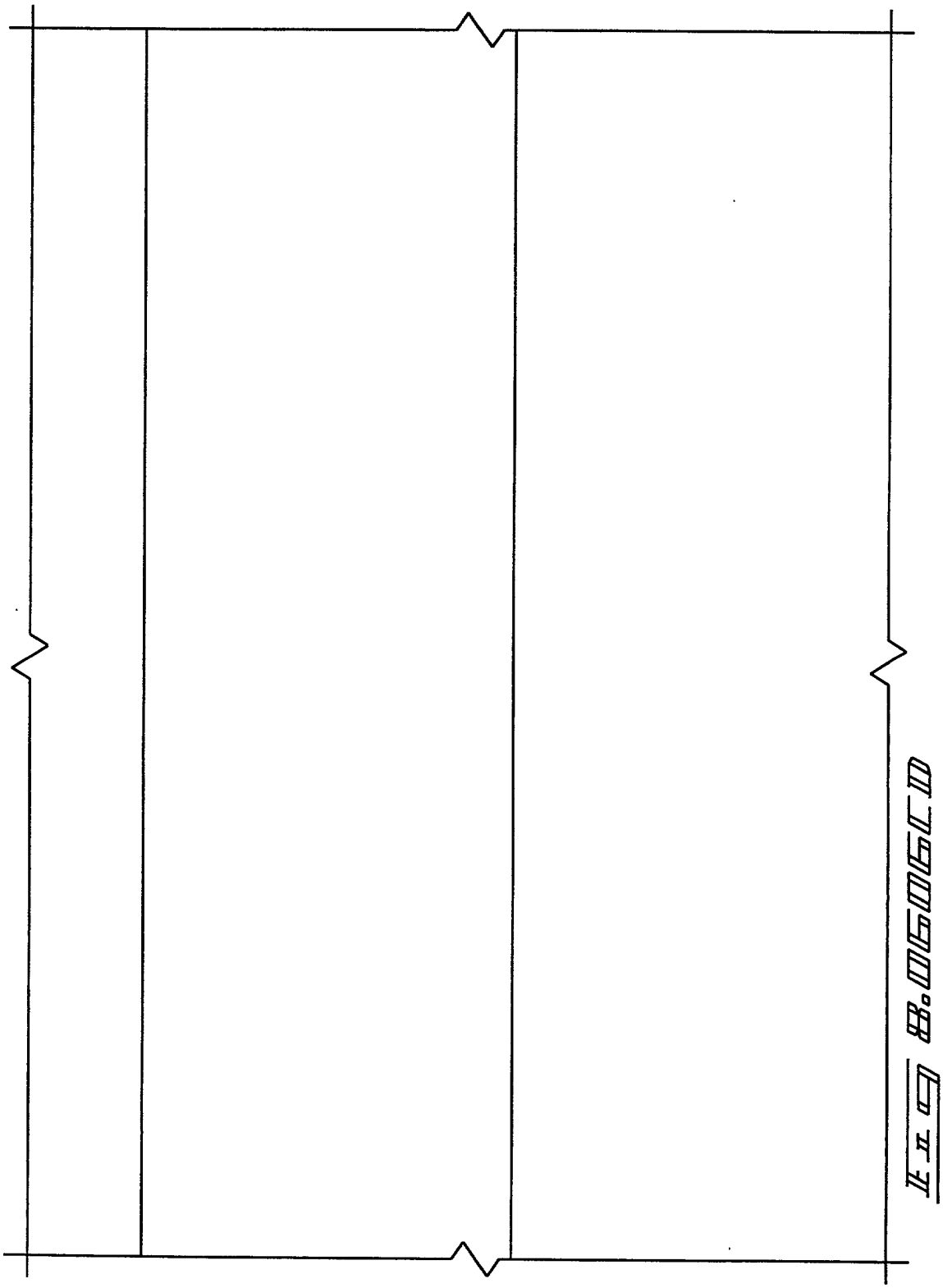


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2045/3273



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